

North Pure Gold 8 Fed 006
 nRM2004149681
 2/3/2020

Spill Volume(Bbls) Calculator	
<i>Inputs in blue , Outputs in red</i>	
Contaminated Soil measurement	
Area (sq feet)	Depth (in)
<u>2,370.00</u>	<u>1.08</u>
Cubic Feet of Soil Impacted	<u>212.31</u>
Barrels of Soil Impacted	<u>37.85</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>5.68</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	5.68
Free Standing Fluid Only	
Area (sq feet)	Depth (inches))
<u>0.00</u>	<u>0.000</u>
Standing fluid	<u>0.00</u>
<u>Total fluids spilled</u>	<u>5.68</u>



Incident Numbers: nHMP1410424987
(2RP-2255), nRM2004149681

Release Assessment and Closure

North Pure Gold 8 Federal #006

Unit J, Section 08, Township 23 South, Range 31 East

API: 30-015-27618

County: Eddy

Vertex File Number: 21E-02816-07

Prepared for:

Devon Energy Production Company, LP

Prepared by:

Vertex Resource Services Inc.

Date:

May 2023

Devon Energy Production Company, LP
North Pure Gold 8 Federal #006

Release Assessment and Closure
May 2023

Release Assessment and Closure
North Pure Gold 8 Federal #006
Unit J, Section 08, Township 23 South, Range 31 East
API: 30-015-27618
County: Eddy

Prepared for:
Devon Energy Production Company, LP
6488 Seven Rivers Highway
Artesia, New Mexico 88210

New Mexico Oil Conservation Division – District 2 – Artesia
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Lakin Pullman, B.Sc.
ENVIRONMENTAL SPECIALIST, REPORTING

June 6, 2023

Date

Kent Stallings P.G.

Kent Stallings, P.G.
PROJECT MANAGER, REPORT REVIEW

June 12, 2023

Date

Devon Energy Production Company, LP
North Pure Gold 8 Federal #006

Release Assessment and Closure
May 2023

Table of Contents

1.0 Introduction 1

2.0 Incident Description 1

 2.1 nHMP1410424987, 2RP-2255 1

 2.2 nRM2004149681 1

3.0 Site Characteristics 1

4.0 Closure Criteria Determination 2

5.0 Remedial Actions Taken..... 4

 5.1 nHMP1410424987, 2RP-2255 4

 5.2 nRM2004149681 5

6.0 Closure Request..... 6

7.0 References 8

8.0 Limitations 9

In-text Tables

- Table 1. Closure Criteria Determination
- Table 2. Closure Criteria for Soils to Remediation and Reclamation Standards

List of Figures

- Figure 1. Characterization Sampling Site Schematic – East (nHMP1410424987, 2RP-2255)
- Figure 2. Confirmatory Sampling Site Schematic – East (nHMP1410424987, 2RP-2255)
- Figure 3. Characterization Sampling Site Schematic – West (nRM2004149681)
- Figure 4. Confirmatory Sampling Site Schematic – West (nRM2004149681)

List of Tables

- Table 3. Initial Characterization Sample Field Screen and Laboratory Results – East (nHMP1410424987, 2RP-2255)
- Table 4. Confirmatory Sample Field Screen and Laboratory Results – East (nHMP1410424987, 2RP-2255)
- Table 5. Initial Characterization Sample Field Screen and Laboratory Results – West (nRM2004149681)
- Table 6. Confirmatory Sample Field Screen and Laboratory Results – West (nRM2004149681)

List of Appendices

- Appendix A. NMOCD C 141 Reports
- Appendix B. Closure Criteria Research Documentation
- Appendix C. Daily Field and Sampling Reports
- Appendix D. Notifications
- Appendix E. Laboratory Data Reports and Chain of Custody Forms
- Appendix F. Depth to Groundwater Drilling

1.0 Introduction

Devon Energy Production Company, LP (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for produced water and crude oil releases that occurred on April 4, 2014, and February 3, 2020, at North Pure Gold 8 Federal #006, API 30-015-27618 (hereafter referred to as the "site"). Devon submitted initial C-141 Release Notifications (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 2 on April 14, 2014, and February 6, 2020. Incident ID numbers nHMP1410424987 (RP# 2RP-2255) and nRM2004149681 were assigned to the respective incidents.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has 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, with the understanding that restoration of portions of the release site in use will be deferred until such time as all oil and gas activities are terminated and the site is reclaimed as per NMAC 19.15.29.13.

2.0 Incident Description

2.1 nHMP1410424987, 2RP-2255

The first release occurred on April 4, 2014, due to corrosion of a 2-inch nipple off of the pumping tee. The incident was reported on April 14, 2014, and involved the release of approximately 25 barrels (bbl) of produced water and 5 bbl of produced oil on the pad site. Approximately 18 bbl of free fluid was removed during the initial clean-up. Additional details relevant to the release are presented in the C-141 Report (Appendix A). Daily Field Reports (DFRs) with site photographs are included in Appendix C.

2.2 nRM2004149681

The second release occurred on February 3, 2020, due to a perforated flowline on the west edge of the pad. The incident was reported on February 6, 2020, and involved the release of approximately 5 bbl of produced water and 0.5 bbl of produced oil into the pasture immediately west of the pad site. No fluid was recovered during the initial clean-up. Additional details relevant to the release are presented in the C-141 Report (Appendix A). Daily Field Reports with site photographs are included in Appendix C.

3.0 Site Characteristics

The site is located approximately 16.9 miles East of Loving, New Mexico. The legal location for the site is Unit J, Section 08, Township 23 South and Range 31 East in Eddy County, New Mexico. The release area is located on Bureau of Land Management property. Aerial photographs and site schematics are presented on Figures 1 and 3.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil production. The following sections specifically describe the release areas at the site or in proximity to the constructed pad (Figures 1 and 3).

The surface geology at the site primarily Qep – eolian and piedmont deposits from the Holocene to middle Pleistocene

(New Mexico Bureau of Geology and Mineral Resources, 2023), and the soil at the site is characterized as fine sand (United States Department of Agriculture, Natural Resources Conservation Service, 2023). The soil is well to excessively drained with a negligible to low runoff class. The karst geology potential for the site is low (United States Department of the Interior, Bureau of Land Management, 2018).

The surrounding landscape is associated with plains, alluvial fans, and fan piedmonts with elevations ranging between 3,100 and 4,200 feet. The climate is semiarid with average annual precipitation ranging between 10 and 14 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be dropseeds with scattered shinnery oak and soapweed yucca. Grasses with small shrubs dominate the historic plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2023). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way, and access road.

4.0 Closure Criteria Determination

The depth to groundwater was determined by drilling a borehole permitted by the New Mexico Office of the State Engineer (NMOSE) within a 0.5-mile radius of the site. The borehole was advanced to a depth of 59 feet approximately 176 feet east of the wellhead on-site. The borehole was left to recharge as per the requirements on the WR-07 Application for Permit to Drill a Well with No Water Rights, and an interface probe was utilized to determine whether groundwater was present at the conclusion of the 72-hour recharge period. No water was found to be present at that time. The borehole was plugged and abandoned according to the WR-08 permit, Well Plugging Plan of Operations, filed with NMOSE. Documentation related to the exploratory borehole is included in Appendix F.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 1 mile northeast of the site (United States Fish and Wildlife Service, 2023). At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. Information pertaining to the closure criteria determination summarized in Table 1 and references are included in Appendix B.

Devon Energy Production Company, LP
 North Pure Gold 8 Federal #006

Release Assessment and Closure
 May 2023

Table 1. Closure Criteria Determination			
Site Name: North Pure Gold 8 Federal #006			
Spill Coordinates:		X: 32.316912	Y: -103.799585
Site Specific Conditions		Value	Unit
1	Depth to Groundwater	>55	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	5,365	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	6,989	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	4,843	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	4,810	feet
	ii) Within 1000 feet of any fresh water well or spring	4,810	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	6,370	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
10	Within a 100-year Floodplain	>500	year
11	Soil Type	Fine Sand	
12	Ecological Classification	Deep Sand	
13	Geology	Eolian and piedmont deposits	
NMAC 19.15.29.12 E (Table 1) Closure Criteria		51-100'	<50' 51-100' >100'

Due to the sale of the site and other properties to Harvard Petroleum Company, all unresolved releases associated with divested properties will be remediated sufficiently to meet reclamation criteria. The closure criteria will also adhere to Paragraph (1) of Subsection D of 19.15.29.13 NMAC for reclamation from surface to 4 feet below ground surface (bgs). The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

	Constituent	Limit
0-4 feet bgs (19.15.29.13)	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
DTGW 51-100 feet (19.15.29.12)	Chloride	10,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

DTGW – depth to groundwater

TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics

BTEX – benzene, toluene, ethylbenzene, and xylenes

5.0 Remedial Actions Taken

5.1 nHMP1410424987, 2RP-2255

Initial spill inspection and site characterization of the release area near the wellhead (noted as North Pure Gold 8 Federal #006 – East in Figures and Tables) was completed by Vertex between July 27, 2021, and January 5, 2023, including vertical and horizontal delineation. The impacted area northeast, east, south, and southwest of the wellhead (nHMP1410424987) was determined to be approximately 161 feet long and 141 feet wide; the total affected area was determined to be 6,855 square feet. The DFRs associated with the site visits are included in Appendix C. Characterization sample locations and approximate release areas are presented on Figure 1. Characterization field screening and laboratory results are summarized in Table 3.

Remediation efforts for the release near the wellhead began on January 4, 2023, and were finalized on January 10, 2023. Vertex personnel supervised the excavation of impacted soils. Field screening was conducted on the base and side walls of the excavation to guide and extend the excavation as needed to adhere to NMOCD reclamation requirements. Field screening consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dextsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and an electroconductivity meter (chloride). Field screening results were used to identify areas requiring further remediation. Soils were removed to depths of 1 to 4 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. Daily Field Reports documenting various phases of the remediation are included in Appendix C.

Notification that confirmatory samples were being collected for incident nHMP1410424987 was provided to the NMOCD on January 10, 2023, and is included in Appendix D. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 61 excavation base samples and 19 excavation

wall samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico, under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Excavation boundaries and confirmation sample locations are presented on Figure 2. Laboratory results are presented in Table 4, and the laboratory data reports are included in Appendix E. All confirmatory samples collected and analyzed were below closure criteria for the site.

5.2 nRM2004149681

Initial spill inspection and site characterization of the release in the pasture immediately west of the wellpad (noted as North Pure Gold 8 Federal #006 – West in Figures and Tables) was completed by Vertex between February 4 and 8, 2020, including partial horizontal delineation. The release area in the pasture off the west edge of the wellpad (nRM2004149681) had components of standing liquid and overspray. The area impacted by standing liquid was determined to be approximately 97 feet long and 58 feet wide; with an affected area of 3,168 square feet. The area impacted by overspray surrounded the standing liquid and was determined to be approximately 138 feet long and 105 feet wide; with an affected area of 6,344 square feet. The total affected area was determined to be 9,512 square feet. The DFRs associated with the site visits are included in Appendix C. Characterization sample locations (notated BH20-) and approximate release areas are presented on Figure 3. Characterization field screening and laboratory results are summarized in Table 5.

Remediation efforts for the pasture release began on February 2, 2021, and were finalized on February 5, 2021. Vertex personnel supervised the excavation of impacted soils. Field screening was conducted on the base and side walls of the excavation to guide and extend the excavation as needed to adhere to NMOCD reclamation requirements. Field screening consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dextsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and an electroconductivity meter (chloride). Field screening results were used to identify areas requiring further remediation. Soils were removed to depths of 2 to 8 feet bgs, with the base of the excavation gradually sloping as needed to follow removed impacted soil at depth. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. On February 5, 2021, once excavation was complete, the overspray area was treated with Micro-Blaze, an in-situ hydrocarbon bioremediation agent. Daily field reports documenting various phases of the remediation are included in Appendix C.

Notification that confirmatory samples were being collected was provided to the NMOCD on February 3, 2021, and is included in Appendix D. On February 5, 2021, eight confirmatory composite samples were collected from the base of the excavation and eight samples were collected from the walls. Five-point composite samples were collected in 200 square-foot increments following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico, under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 6, and the laboratory data reports are included in Appendix E. Wall excavation sample WS21-04 exceeded the NMOCD reclamation criterion for total petroleum hydrocarbons (TPH) at 220 ppm. The excavation was initially backfilled on March 24, 2021.

Additional site characterization of the pasture release was completed by Vertex between December 3, 2022, and February 21, 2023, including vertical delineation to depths below the backfill from the historical excavation. Horizontal delineation was confirmed outside the overspray area and the previously calculated measurements were deemed accurate. The DFRs associated with the site visits are included in Appendix C. Characterization sample locations (notated BH22-) are presented on Figure 3. Characterization field screening and laboratory results are summarized in Table 5.

It was determined that that an insufficient number of confirmation samples were collected from the excavation during the first confirmatory sampling event given the total square footage of excavation base and walls. In addition, wall sample WS21-04 needed to be re-collected to determine if the area would meet NMOCD reclamation criteria. Notifications that additional confirmatory samples were being collected were provided to the NMOCD on January 10 and 23, 2023, and are included in Appendix D. On January 20 and 25, 2023, additional 5-point composite confirmation base and wall samples were collected from the previously backfilled excavation by advancing five boreholes to excavation depth for base samples, collecting discrete samples from the excavation surface (base or wall), and creating a composite from each set of five samples. Composite borehole samples and corresponding sets of five discrete samples were collected over intervals of 200 square feet and were placed to cover the areas not included by the first confirmatory sampling event. This method was used to re-collect a composite confirmation sample from excavation wall WS21-04 and collect four additional excavation wall and 14 additional excavation base samples. Laboratory results for all borehole-derived confirmatory samples collected and analyzed were below closure criteria for the site.

Notification that confirmatory samples were being collected for the overspray area was provided to the NMOCD on February 14, 2023, and is included in Appendix D. On February 20, 2023, 50 confirmation 5-point composite samples were collected from the former overspray area in 200 square foot increments. Laboratory results for overspray area confirmation samples BS23-47 and BS23-52 exceeded NMOCD reclamation criterion for TPH at 670 ppm and 159 ppm, respectively, as presented in Table 6. Notification that additional confirmatory samples were being collected for the overspray area was provided to the NMOCD on May 17, 2023, and confirmatory samples BS23-47 and BS23-52 were re-collected on May 19, 2023.

Since the original confirmatory sampling event, a total of 64 additional base excavation samples and five additional wall excavation samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico, under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Confirmatory sample locations are presented on Figure 4. Confirmatory sampling field screening and laboratory results are summarized in Table 6, and the laboratory data reports are included in Appendix E. All final confirmatory samples collected and analyzed were below closure criteria for the site.

6.0 Closure Request

Vertex recommends no additional remediation action to address the releases at North Pure Gold 8 Federal #006. Laboratory analyses of the final confirmatory samples showed constituent of concern concentration levels below NMOCD closure criteria for areas where depth to groundwater is 51-100 feet bgs as shown in Table 2. There are no

Devon Energy Production Company, LP
North Pure Gold 8 Federal #006

Release Assessment and Closure
May 2023

anticipated risks to human, ecological or hydrological receptors associated with the release sites.

The excavations were backfilled with non-waste-containing, uncontaminated, earthen material, sourced locally, and placed to meet the site's existing grade to prevent ponding of water and erosion.

Vertex requests that these incidents (nHMP1410424987, 2RP-2255, and nRM2004149681) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Devon 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 April 4, 2014, and February 3, 2020, releases at North Pure Gold 8 Federal #006.

The release areas were fully delineated, remediated, and backfilled with local soils by March 7, 2023. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release locations between 51 and 100 feet to groundwater. Based on these findings, Devon requests that this release be closed.

Should you have any questions or concerns, please do not hesitate to contact Lakin Pullman at 701.495.1722 or lpullman@vertex.ca.

7.0 References

- New Mexico Bureau of Geology and Mineral Resources. (2023). *Interactive Geologic Map*. Retrieved from <https://maps.nmt.edu/>
- New Mexico Office of the State Engineer. (2023). *Point of Diversion Location Report - New Mexico Water Rights Reporting System*. Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html>
- 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. (2023). *Web Soil Survey*. Retrieved from <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>
- United States Department of the Interior, Bureau of Land Management. (2018). *New Mexico Cave/Karst*. Retrieved from https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html
- United States Fish and Wildlife Service. (2023). *National Wetland Inventory - Surface Waters and Wetlands*. Retrieved from <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>

Devon Energy Production Company, LP
North Pure Gold 8 Federal #006

Release Assessment and Closure
May 2023

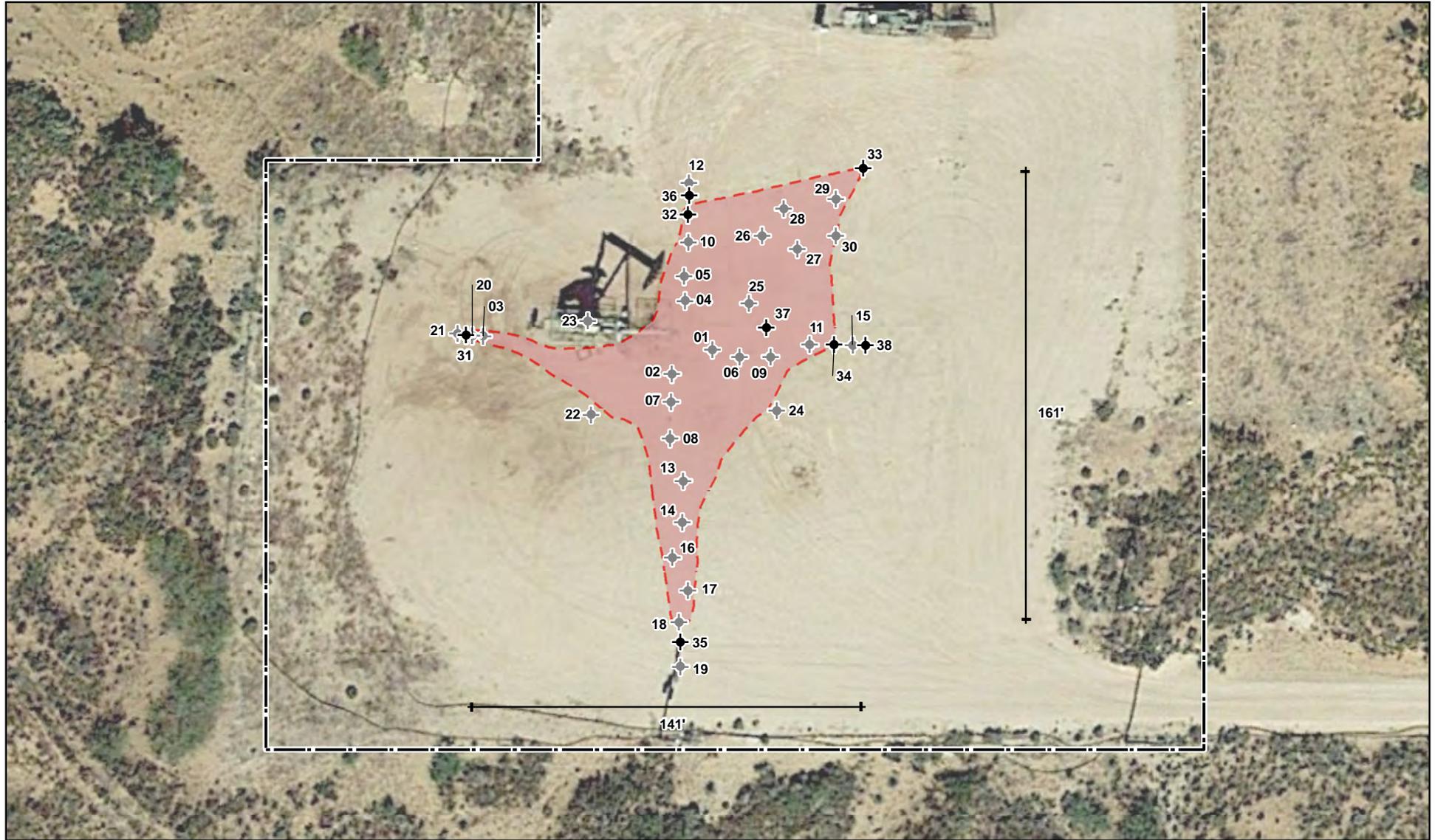
8.0 Limitations

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

FIGURES

Document Path: \\vvs-s401.corp.internatlsbnaedvps04 - Geomatics\1-Projects\1_US PROJECTS\Devon Energy Corporation\2021\21E-0281\North Pure Gold 8 Fed 0\Figure 1 Characterization Schematic North Pure Gold 8 Fed 0.mxd



- ◆ Borehole (Prefixed by "BH21-")
- ◆ Borehole (Prefixed by "BH22-")
- ⬡ Approximate Lease Boundary
- ⬢ Approximate Extent of Spill (~6,855 sq. ft.)



0 12.5 25 50 Feet
 Map Center:
 Lat/Long: 32.317067, -103.799101

NAD 1983 UTM Zone 13N
 Date: Jan 16/23



Characterization Sampling Site Schematic – East
(nHMP1410424987, 2RP-2255)
North Pure Gold 8 Federal #006

FIGURE:
1

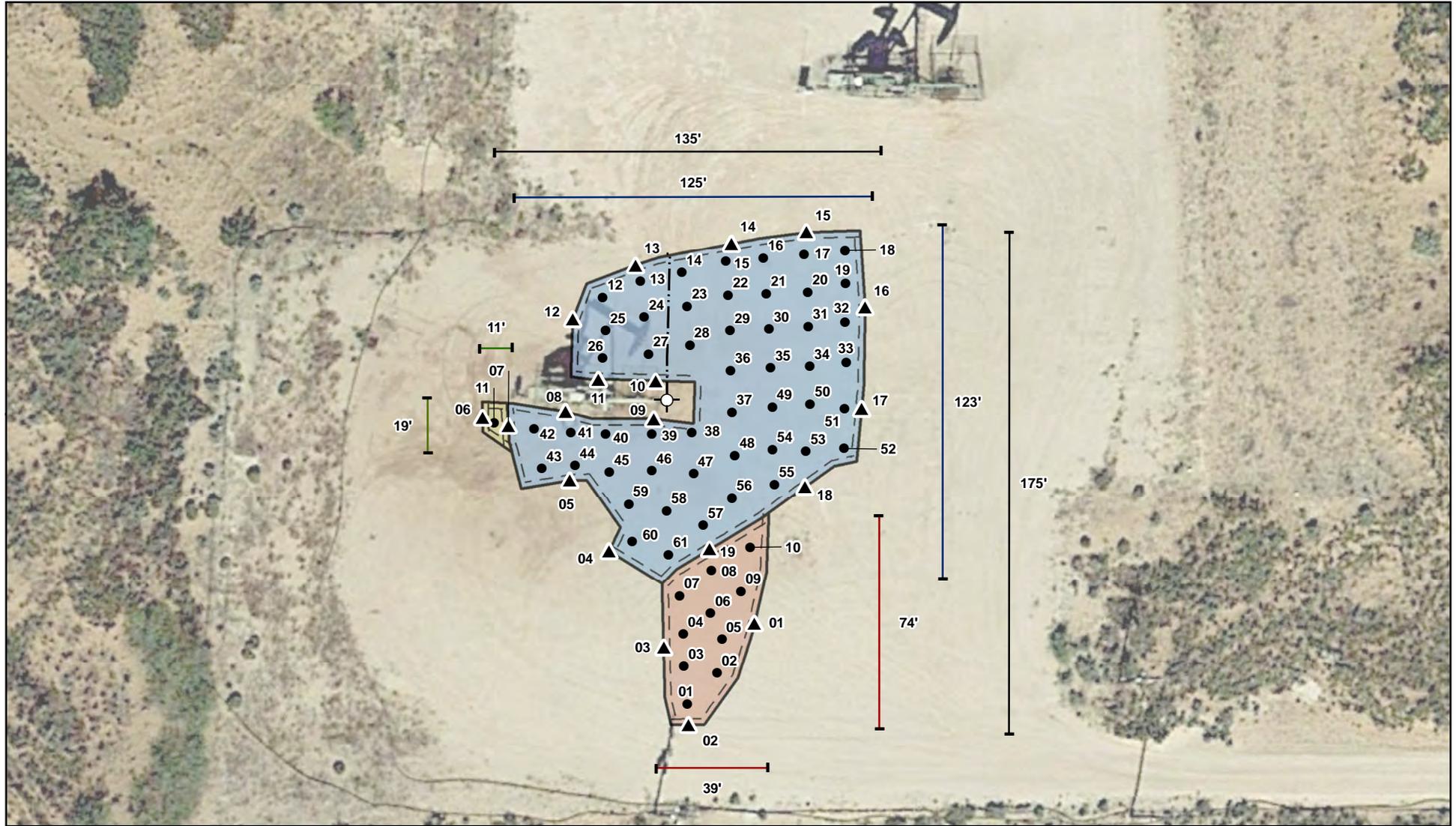


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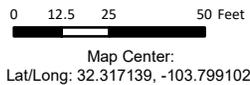
Note: Basemap imagery from ESRI, 2017.

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Document Path: G:\Projects\US PROJECTS\Devon Energy Corporation\2021\121E-02816\007 - North Pure Gold 8 Federal #006\Figure 3 - Confirmatory Sample Locations (N Pure Gold 8 F 006).mxd



- Base Sample (Prefixed by "BS23-")
- ▲ Wall Sample (Prefixed by "WS23-")
- ⊕ Wellhead
- Pipeline
- [Light Blue Shaded Area] Excavation to 1' (~1,801 sq. ft.)
- [Light Orange Shaded Area] Excavation to 1' (~122 sq. ft.)
- [Light Blue Shaded Area with Grid] Excavation to 4' (~9,559 sq. ft.)



NAD 1983 UTM Zone 13N
Date: Feb 03/23



Confirmatory Sampling Site Schematic – East
(nHMP1410424987, 2RP-2255)
North Pure Gold 8 Federal #006

FIGURE:

2

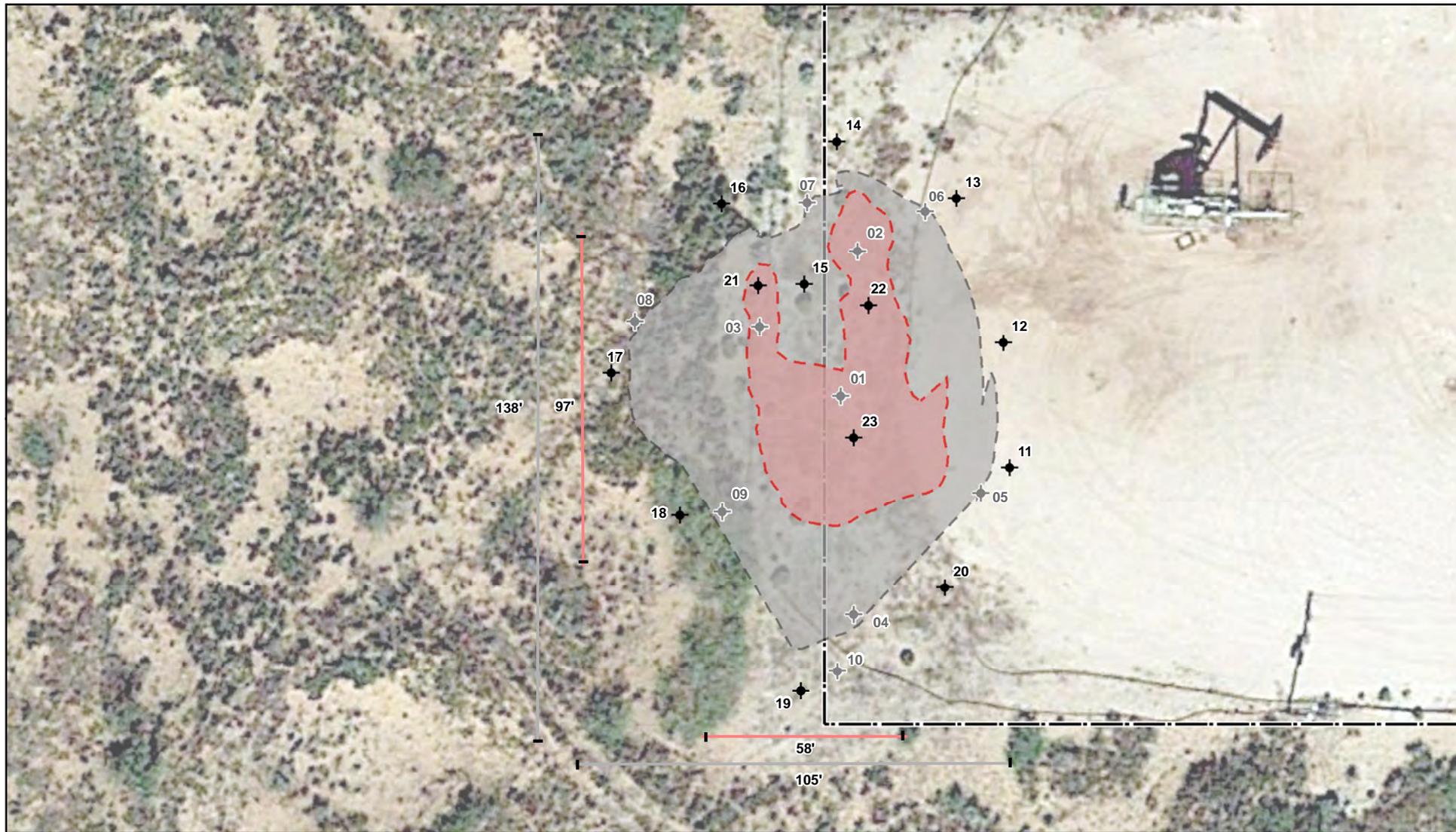


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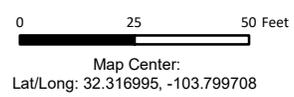
Note: Background imagery from Google Earth, 2023. Features from GPS. Vertex Professional Services Ltd., 2023.

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Document Path: \\vks-s401.com\internal\share\devps04 - Geomatics\1-Projects\1_US PROJECTS\Devon Energy Corporation\2021\21E-02816\007 - North Pure Gold 8 Federal #006\Figure 3 - Characterization Sample Locations (West Pure Gold 8 F 006).mxd



- ◆ Borehole (Prefixed by "BH20-")
- ◆ Borehole (Prefixed by "BH22-")
- ▭ Release Area (~3168 sq.ft.)
- ▭ Overspray Area (~6,344 sq.ft.)
- ▭ Approximate Lease Boundary



NAD 1983 UTM Zone 13N
Date: Jun 06/23



**Characterization Sampling Site Schematic – West
(nRM2004149681)
North Pure Gold 8 Federal #006**

FIGURE:
3

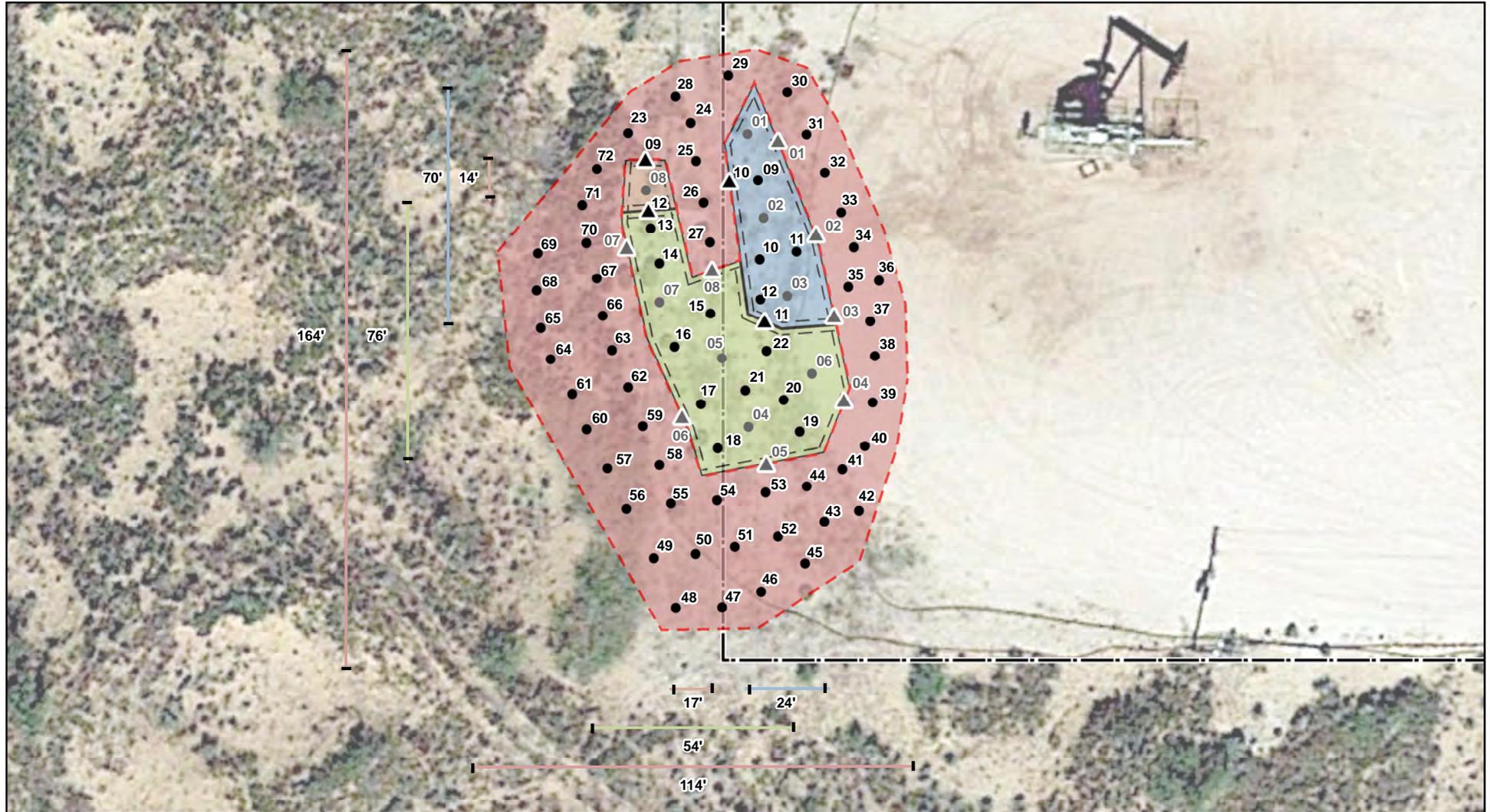


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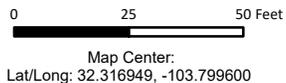
Note: Image from Google Earth Pro, 2023, georeferenced by Vertex. Site features from GPS, Vertex Professional Services Ltd., 2023.

VERSATILITY. EXPERTISE.

Document Path: G:\Projects\US PROJECTS\Devon Energy Corporation\2021\21E-02816\007 - North Pure Gold 8 Federal #006\Figure 2 - Confirmatory Sample Locations (West Pure Gold 8 F 006).mxd



- Base Samples (Prefixed by "BS23-")
- Base Sample (Prefixed by "BS21-")
- ▲ Wall Sample (Prefixed by "WS21-")
- ▲ Wall Samples (Prefixed by "WS23-")
- Approximate Lease Boundary
- Historical Excavation to 3 feet bgs (~2,663 sq.ft.)
- Historical Excavation to 5.5 feet bgs (~1,239 sq.ft.)
- Historical Excavation to 8 feet bgs (~196 sq.ft.)
- Overspray Area (~9,863 sq.ft.)



NAD 1983 UTM Zone 13N
Date: May 25/23



Confirmatory Sampling Site Schematic – West
(nRM2004149681)
North Pure Gold 8 Federal #006

FIGURE:

4



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Note: Image from Google Earth Pro, 2023, georeferenced by Vertex. Site features from GPS, Vertex Professional Services Ltd., 2023.

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TABLES

Client Name: Devon Energy Production Company, LP
 Site Name: North Pure Gold 8 Federal #006 - East
 NM OCD Incident Tracking Number: nHMP1410424987, 2RP-2255
 Project #: 21E-02816-07
 Lab Reports: 2107F55, 2212582, and 2301273

Table 3. Characterization Field Screening and Laboratory Results - East - Depth to Groundwater 51-100 feet

Sample Description		Field Screening			Petroleum Hydrocarbons								Inorganic	
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable						Chloride
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MIRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)		
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BH21-01	0.5	July 28, 2021	0	-	5,070	-	-	-	-	-	-	-	-	
BH21-02	0.5	July 28, 2021	1	-	1,091	-	-	-	-	-	-	-	-	
BH21-03	0.5	July 28, 2021	0	189	369	-	-	-	-	-	-	-	-	
BH21-04	0.5	July 28, 2021	1	-	3,375	-	-	-	-	-	-	-	-	
	1	July 28, 2021	-	-	968	-	-	-	-	-	-	-	-	
	1.5	July 28, 2021	-	-	994	-	-	-	-	-	-	-	-	
	2	July 28, 2021	-	-	1,114	-	-	-	-	-	-	-	-	
	2.5	July 28, 2021	-	-	1,281	-	-	-	-	-	-	-	-	
	3	July 28, 2021	-	-	1,578	-	-	-	-	-	-	-	-	
	4	July 28, 2021	-	-	1,384	-	-	-	-	-	-	-	-	
	5	July 28, 2021	-	-	1,968	-	-	-	-	-	-	-	-	
BH21-05	0.5	July 28, 2021	-	-	3,090	-	-	-	-	-	-	-	-	
	1	July 28, 2021	-	-	1,098	-	-	-	-	-	-	-	-	
	2	July 28, 2021	-	-	1,167	-	-	-	-	-	-	-	-	
	3	July 28, 2021	-	-	1,456	-	-	-	-	-	-	-	-	
BH21-06	0.5	July 28, 2021	-	-	2,420	ND	ND	ND	40	63	40	103	2,700	
	1	July 28, 2021	-	58	513	ND	ND	ND	ND	ND	ND	ND	560	
BH21-07	0.5	July 28, 2021	-	-	1,309	ND	ND	ND	ND	ND	ND	ND	1,200	
BH21-08	0.5	July 28, 2021	-	-	1,290	ND	ND	ND	ND	ND	ND	ND	1,000	
	1	July 28, 2021	-	14	318	ND	ND	ND	ND	ND	ND	ND	360	
BH21-09	0.5	July 28, 2021	-	-	760	-	-	-	-	-	-	-	-	
BH21-10	0.5	July 28, 2021	-	-	2,198	-	-	-	-	-	-	-	-	
BH21-11	0.5	July 28, 2021	-	-	806	-	-	-	-	-	-	-	-	
BH21-12	0.5	July 28, 2021	-	41	189	ND	ND	ND	ND	ND	ND	ND	140	
BH21-13	0.5	July 28, 2021	-	-	694	-	-	-	-	-	-	-	-	
BH21-14	0.5	July 28, 2021	-	-	3,287	-	-	-	-	-	-	-	-	
BH21-15	0.5	July 28, 2021	-	55	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BH21-16	0.5	July 28, 2021	-	-	922	-	-	-	-	-	-	-	-	
BH21-17	0.5	July 28, 2021	-	-	671	-	-	-	-	-	-	-	-	
BH21-18	0.5	July 28, 2021	-	-	867	-	-	-	-	-	-	-	-	
BH21-19	0.5	July 28, 2021	-	6	ND	ND	ND	ND	ND	ND	ND	ND	77	
BH21-20	0.5	July 28, 2021	-	111	ND	-	-	-	-	-	-	-	-	
BH21-21	0.5	July 28, 2021	-	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BH21-22	0.5	July 28, 2021	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BH21-23	0.5	July 28, 2021	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BH21-24	0.5	July 28, 2021	-	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BH21-25	0.5	July 28, 2021	-	1,652	ND	ND	ND	ND	ND	ND	ND	ND	1,700	
BH21-26	0.5	July 28, 2021	-	-	2,192	-	-	-	-	-	-	-	-	
BH21-27	0.5	July 28, 2021	-	-	2,284	-	-	-	-	-	-	-	-	
BH21-28	0.5	July 28, 2021	-	-	2,925	-	-	-	-	-	-	-	-	
BH21-29	0.5	July 28, 2021	-	-	3,244	-	-	-	-	-	-	-	-	
BH21-30	0.5	July 28, 2021	-	43	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BH21-31	0	December 7, 2022	0	-	121	ND	ND	ND	ND	ND	ND	ND	ND	
	2	December 7, 2022	0	-	2	ND	ND	ND	ND	ND	ND	ND	ND	
BH22-32	0	December 7, 2022	0	-	2,479	ND	ND	ND	ND	ND	ND	ND	1,200	
	2	December 7, 2022	0	-	1,324	ND	ND	ND	ND	ND	ND	ND	610	
	4	December 7, 2022	0	-	1,711	ND	ND	ND	ND	ND	ND	ND	740	
BH22-33	0	December 7, 2022	0	-	342	ND	ND	ND	ND	ND	ND	ND	100	
	2	December 7, 2022	0	-	255	ND	ND	ND	ND	ND	ND	ND	85	



Client Name: Devon Energy Production Company, LP
 Site Name: North Pure Gold 8 Federal #006 - East
 NM OCD Incident Tracking Number: nHMP1410424987, 2RP-2255
 Project #: 21E-02816-07
 Lab Reports: 2107F55, 2212582, and 2301273

Table 3. Characterization Field Screening and Laboratory Results - East - Depth to Groundwater 51-100 feet													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					Chloride
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MIRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH22-34	0	December 7, 2022	0	-	164	ND	ND	ND	16	300	16	316	ND
	2	December 7, 2022	0	-	116	ND	ND	ND	ND	ND	ND	ND	ND
BH22-35	0	December 7, 2022	0	-	181	ND	ND	ND	ND	ND	ND	ND	ND
	2	December 7, 2022	0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-36	0	December 7, 2022	0	-	331	ND	ND	ND	ND	ND	ND	ND	ND
	2	December 7, 2022	0	-	77	ND	ND	ND	ND	ND	ND	ND	ND
BH22-37	0	January 4, 2023	0	-	474	ND	ND	ND	ND	ND	ND	ND	160
	2	January 4, 2023	0	-	656	ND	ND	ND	ND	ND	ND	ND	250
	4	January 4, 2023	0	-	891	ND	ND	ND	ND	ND	ND	ND	390
	6	January 4, 2023	0	-	881	ND	ND	ND	ND	ND	ND	ND	340
	8	January 4, 2023	0	-	714	ND	ND	ND	ND	ND	ND	ND	240
	10	January 4, 2023	0	-	633	ND	ND	ND	ND	ND	ND	ND	230
	12	January 4, 2023	0	-	684	ND	ND	ND	ND	ND	ND	ND	230
	14	January 5, 2023	0	-	754	ND	ND	ND	ND	ND	ND	ND	97
	16	January 5, 2023	0	14	616	ND	ND	ND	ND	ND	ND	ND	ND
BH22-38	0	January 5, 2023	0	11	532	ND	ND	ND	ND	ND	ND	ND	ND
	2	January 5, 2023	0	10	523	ND	ND	ND	ND	ND	ND	ND	ND

"-" indicates not sampled/analyzed

"ND" Not Detected at the Reporting Limit

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria



Client Name: Devon Energy Production Company, LP
 Site Name: North Pure Gold 8 Federal #006 - East
 NM OCD Incident Tracking Number: nHMP1410424987, 2RP-2255
 Project #: 21E-02816-07
 Lab Reports: 2301766, 2301815 and 2301866

Table 4. Confirmatory Sample Field Screen and Laboratory Results - East - Depth to Groundwater 51-100 feet bgs

Sample Description		Field Screening			Petroleum Hydrocarbons							Inorganic	
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MIRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS23-01	1	January 18, 2023	0	4	393	ND	ND	ND	ND	ND	ND	ND	66
BS23-02	1	January 18, 2023	0	0	551	ND	ND	ND	ND	ND	ND	ND	160
BS23-03	1	January 18, 2023	0	5	477	ND	ND	ND	ND	ND	ND	ND	110
BS23-04	1	January 18, 2023	0	0	336	ND	ND	ND	ND	ND	ND	ND	ND
BS23-05	1	January 18, 2023	0	0	375	ND	ND	ND	ND	ND	ND	ND	71
BS23-06	1	January 18, 2023	0	1	382	ND	ND	ND	ND	ND	ND	ND	70
BS23-07	1	January 18, 2023	0	0	372	ND	ND	ND	ND	ND	ND	ND	81
BS23-08	1	January 18, 2023	0	4	402	ND	ND	ND	ND	ND	ND	ND	86
BS23-09	1	January 18, 2023	0	1	441	ND	ND	ND	ND	ND	ND	ND	110
BS23-10	1	January 18, 2023	0	8	334	ND	ND	ND	ND	ND	ND	ND	ND
BS23-11	1	January 18, 2023	0	7	287	ND	ND	ND	ND	ND	ND	ND	ND
BS23-12	4	January 19, 2023	0	-	1,392	ND	ND	ND	ND	ND	ND	ND	440
BS23-13	4	January 19, 2023	0	-	2,035	ND	ND	ND	ND	ND	ND	ND	860
BS23-14	4	January 19, 2023	0	-	2,068	ND	ND	ND	ND	ND	ND	ND	830
BS23-15	4	January 19, 2023	0	-	1,125	ND	ND	ND	ND	ND	ND	ND	310
BS23-16	4	January 19, 2023	0	-	943	ND	ND	ND	ND	ND	ND	ND	230
BS23-17	4	January 19, 2023	0	-	630	ND	ND	ND	ND	ND	ND	ND	100
BS23-18	4	January 19, 2023	0	-	1,236	ND	ND	ND	ND	ND	ND	ND	360
BS23-19	4	January 19, 2023	0	-	847	ND	ND	ND	ND	ND	ND	ND	210
BS23-20	4	January 19, 2023	0	-	1,626	ND	ND	ND	ND	ND	ND	ND	480
BS23-21	4	January 19, 2023	0	-	1,291	ND	ND	ND	ND	ND	ND	ND	300
BS23-22	4	January 19, 2023	0	-	1,421	ND	ND	ND	ND	ND	ND	ND	470
BS23-23	4	January 19, 2023	0	-	1,662	ND	ND	ND	ND	ND	ND	ND	530
BS23-24	4	January 19, 2023	0	-	2,189	ND	ND	ND	ND	ND	ND	ND	950
BS23-25	4	January 19, 2023	0	-	1,848	ND	ND	ND	ND	ND	ND	ND	690
BS23-26	4	January 19, 2023	0	-	1,335	ND	ND	ND	ND	ND	ND	ND	380
BS23-27	4	January 19, 2023	0	-	1,512	ND	ND	ND	ND	ND	ND	ND	500
BS23-28	4	January 19, 2023	0	-	2,709	ND	ND	ND	9.8	ND	ND	9.8	1300
BS23-29	4	January 19, 2023	0	-	1,593	ND	ND	ND	ND	ND	ND	ND	470
BS23-30	4	January 19, 2023	0	-	1,506	ND	ND	ND	ND	ND	ND	ND	500
BS23-31	4	January 19, 2023	0	-	1,203	ND	ND	ND	ND	ND	ND	ND	250
BS23-32	4	January 19, 2023	0	-	1,212	ND	ND	ND	ND	ND	ND	ND	290
BS23-33	4	January 19, 2023	0	-	987	ND	ND	ND	ND	ND	ND	ND	200
BS23-34	4	January 19, 2023	0	-	910	ND	ND	ND	ND	ND	ND	ND	170
BS23-35	4	January 19, 2023	0	-	1,108	ND	ND	ND	ND	ND	ND	ND	380
BS23-36	4	January 19, 2023	0	-	1,892	ND	ND	ND	ND	ND	ND	ND	550
BS23-37	4	January 19, 2023	0	-	1,359	ND	ND	ND	ND	ND	ND	ND	460
BS23-38	4	January 19, 2023	0	-	1,394	ND	ND	ND	ND	ND	ND	ND	420
BS23-39	4	January 19, 2023	0	-	1,895	ND	ND	ND	ND	ND	ND	ND	610
BS23-40	4	January 19, 2023	0	-	2,151	ND	ND	ND	ND	ND	ND	ND	860
BS23-41	4	January 20, 2023	0	-	3,417	ND	ND	ND	ND	ND	ND	ND	1500
BS23-42	4	January 20, 2023	0	-	2,810	ND	ND	ND	ND	ND	ND	ND	790
BS23-43	4	January 20, 2023	0	-	2,954	ND	ND	ND	ND	ND	ND	ND	1300
BS23-44	4	January 20, 2023	0	-	2,372	ND	ND	ND	ND	ND	ND	ND	910
BS23-45	4	January 20, 2023	0	-	1,000	ND	ND	ND	ND	ND	ND	ND	350
BS23-46	4	January 20, 2023	0	-	870	ND	ND	ND	ND	ND	ND	ND	140
BS23-47	4	January 20, 2023	0	-	1,106	ND	ND	ND	ND	ND	ND	ND	180
BS23-48	4	January 20, 2023	0	-	834	ND	ND	ND	ND	ND	ND	ND	110
BS23-49	4	January 20, 2023	0	-	1,440	ND	ND	ND	ND	ND	ND	ND	300
BS23-50	4	January 20, 2023	0	-	1,073	ND	ND	ND	ND	ND	ND	ND	180



Client Name: Devon Energy Production Company, LP
 Site Name: North Pure Gold 8 Federal #006 - East
 NM OCD Incident Tracking Number: nHMP1410424987, 2RP-2255
 Project #: 21E-02816-07
 Lab Reports: 2301766, 2301815 and 2301866

Table 4. Confirmatory Sample Field Screen and Laboratory Results - East - Depth to Groundwater 51-100 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MIRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS23-51	4	January 20, 2023	0	-	762	ND	ND	ND	ND	ND	ND	ND	72
BS23-52	4	January 20, 2023	0	-	600	ND	ND	ND	ND	ND	ND	ND	ND
BS23-53	4	January 20, 2023	0	-	785	ND	ND	ND	ND	ND	ND	ND	100
BS23-54	4	January 20, 2023	0	-	977	ND	ND	ND	ND	ND	ND	ND	210
BS23-55	4	January 20, 2023	0	-	640	ND	ND	ND	ND	ND	ND	ND	ND
BS23-56	4	January 20, 2023	0	-	689	ND	ND	ND	ND	ND	ND	ND	66
BS23-57	4	January 20, 2023	0	-	813	ND	ND	ND	ND	ND	ND	ND	150
BS23-58	4	January 20, 2023	0	-	952	ND	ND	ND	ND	ND	ND	ND	200
BS23-59	4	January 20, 2023	0	-	929	ND	ND	ND	ND	ND	ND	ND	190
BS23-60	4	January 20, 2023	0	-	1,122	ND	ND	ND	ND	ND	ND	ND	380
BS23-61	4	January 20, 2023	0	-	724	0.023	0.023	ND	ND	ND	ND	ND	110
WS23-01	0-1	January 18, 2023	0	10	379	ND	ND	ND	ND	ND	ND	ND	ND
WS23-02	0-1	January 18, 2023	0	7	217	ND	ND	ND	ND	ND	ND	ND	ND
WS23-03	0-1	January 18, 2023	0	4	212	ND	ND	ND	ND	ND	ND	ND	ND
WS23-04	0-4	January 18, 2023	0	9	320	ND	ND	ND	ND	ND	ND	ND	ND
WS23-05	0-4	January 18, 2023	0	6	281	ND	ND	ND	ND	ND	ND	ND	ND
WS23-06	0-1	January 18, 2023	0	6	314	ND	ND	ND	ND	ND	ND	ND	ND
WS23-07	1-4	January 18, 2023	0	13	210	ND	ND	ND	ND	ND	ND	ND	ND
WS23-08	0-4	January 18, 2023	0	9	476	ND	ND	ND	ND	ND	ND	ND	130
WS23-09	0-4	January 18, 2023	0	6	359	ND	ND	ND	ND	ND	ND	ND	61
WS23-10	0-4	January 18, 2023	0	14	241	ND	ND	ND	ND	ND	ND	ND	ND
WS23-11	0-4	January 18, 2023	0	0	271	ND	ND	ND	ND	ND	ND	ND	ND
WS23-12	0-4	January 18, 2023	0	9	551	ND	ND	ND	ND	ND	ND	ND	160
WS23-13	0-4	January 18, 2023	0	2	305	ND	ND	ND	ND	ND	ND	ND	ND
WS23-14	0-4	January 18, 2023	0	4	369	ND	ND	ND	ND	ND	ND	ND	ND
WS23-15	0-4	January 18, 2023	0	1	578	ND	ND	ND	ND	ND	ND	ND	130
WS23-16	0-4	January 18, 2023	0	2	333	ND	ND	ND	ND	ND	ND	ND	ND
WS23-17	0-4	January 18, 2023	0	3	558	ND	ND	ND	ND	ND	ND	ND	91
WS23-18	0-4	January 18, 2023	0	25	304	ND	ND	ND	ND	ND	ND	ND	ND
WS23-19	1-4	January 18, 2023	0	5	570	ND	ND	ND	ND	ND	ND	ND	130

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria



Client Name: Devon Energy Production Company, LP
 Site Name: North Pure Gold 8 Federal #006 - West
 NM OCD Tracking #: nRM2004149681
 Project #: 21E-02816-07
 Lab Reports: 2002522, 2212214, and 2302A00

Table 5. Characterization Sample Field Screen and Laboratory Results -West - Depth to Groundwater 51-100 feet bgs

Sample Description		Field Screening			Petroleum Hydrocarbons								Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MIRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH20-01	0	February 8, 2020	776	-	-	-	-	-	-	-	-	-	-
	1	February 8, 2020	130	316	5,614	-	-	-	-	-	-	-	-
	2	February 8, 2020	13	228	3,371	-	-	-	-	-	-	-	-
	3	February 8, 2020	4	80	429	-	-	-	-	-	-	-	-
BH20-02	0	February 8, 2020	822	-	-	0.32	44.92	660	50,000	20,000	50,660	70,660	14,000
	1	February 8, 2020	216	535	5,220	-	-	-	-	-	-	-	-
	2	February 8, 2020	202	511	1,987	-	-	-	-	-	-	-	-
	3	February 8, 2020	21	69	114	-	-	-	-	-	-	-	-
BH20-03	0	February 8, 2020	700	-	-	0.46	37.46	650	29,000	13,000	29,650	42,650	7,300
	1	February 8, 2020	266	298	2,224	-	-	-	-	-	-	-	-
	2	February 8, 2020	47	203	641	-	-	-	-	-	-	-	-
	3	February 8, 2020	7	72	250	-	-	-	-	-	-	-	-
BH20-04	0	February 8, 2020	1	45	215	-	-	-	-	-	-	-	-
	1	February 8, 2020	0	38	166	-	-	-	-	-	-	-	-
BH20-05	0	February 8, 2020	3	51	333	ND	ND	ND	ND	ND	ND	ND	ND
	1	February 8, 2020	0	47	198	-	-	-	-	-	-	-	-
BH20-06	0	February 8, 2020	2	65	472	-	-	-	-	-	-	-	-
	1	February 8, 2020	0	45	176	-	-	-	-	-	-	-	-
BH20-07	0	February 8, 2020	2	69	509	ND	ND	ND	ND	ND	ND	ND	ND
	1	February 8, 2020	0	39	314	-	-	-	-	-	-	-	-
BH20-08	0	February 8, 2020	1	54	219	ND	ND	ND	ND	ND	ND	ND	ND
	1	February 8, 2020	0	36	99	-	-	-	-	-	-	-	-
BH20-09	0	February 8, 2020	40	123	-	ND	ND	ND	ND	ND	ND	ND	ND
	1	February 8, 2020	31	112	-	-	-	-	-	-	-	-	-
BH20-10	0	February 8, 2020	34	161	-	-	-	-	-	-	-	-	-
	3	February 8, 2020	36	97	-	-	-	-	-	-	-	-	-
BH22-11	0	December 3, 2022	0	28	402	ND	ND	ND	ND	ND	ND	ND	ND
	2	December 3, 2022	0	36	707	ND	ND	ND	ND	ND	ND	ND	230
	4	December 3, 2022	0	31	676	ND	ND	ND	ND	ND	ND	ND	240
BH22-12	0	December 3, 2022	0	25	402	ND	ND	ND	ND	ND	ND	ND	64
	2	December 3, 2022	0	17	404	ND	ND	ND	ND	ND	ND	ND	140
	4	December 3, 2022	0	20	406	ND	ND	ND	ND	ND	ND	ND	110
BH22-13	0	December 3, 2022	0	40	464	ND	ND	ND	ND	ND	ND	ND	ND
	2	December 3, 2022	0	21	305	ND	ND	ND	ND	ND	ND	ND	89
	4	December 3, 2022	0	12	421	ND	ND	ND	ND	ND	ND	ND	150
BH22-14	0	December 3, 2022	0	26	171	ND	ND	ND	ND	ND	ND	ND	ND
	2	December 3, 2022	0	13	142	ND	ND	ND	ND	ND	ND	ND	ND
	4	December 3, 2022	0	11	171	ND	ND	ND	ND	ND	ND	ND	ND
BH22-15	0	December 3, 2022	0	23	265	ND	ND	ND	ND	ND	ND	ND	ND
	2	December 3, 2022	0	13	145	ND	ND	ND	ND	ND	ND	ND	ND
	4	December 3, 2022	0	51	284	ND	ND	ND	ND	ND	ND	ND	70
BH22-16	0	December 3, 2022	0	25	135	ND	ND	ND	ND	ND	ND	ND	ND
	2	December 3, 2022	0	17	128	ND	ND	ND	ND	ND	ND	ND	ND
	4	December 3, 2022	0	12	134	ND	ND	ND	ND	ND	ND	ND	ND
BH22-17	0	December 3, 2022	0	28	129	ND	ND	ND	ND	ND	ND	ND	ND
	2	December 3, 2022	0	15	111	ND	ND	ND	ND	ND	ND	ND	ND
	4	December 3, 2022	0	16	116	ND	ND	ND	ND	ND	ND	ND	ND
BH22-18	0	December 3, 2022	0	47	98	ND	ND	ND	ND	ND	ND	ND	ND
	2	December 3, 2022	0	9	85	ND	ND	ND	ND	ND	ND	ND	ND
	4	December 3, 2022	0	19	95	ND	ND	ND	ND	ND	ND	ND	ND



Client Name: Devon Energy Production Company, LP
 Site Name: North Pure Gold 8 Federal #006 - West
 NM OCD Tracking #: nRM2004149681
 Project #: 21E-02816-07
 Lab Reports: 2002522, 2212214, and 2302A00

Table 5. Characterization Sample Field Screen and Laboratory Results -West - Depth to Groundwater 51-100 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MIRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH22-19	0	December 3, 2022	0	50	101	ND	ND	ND	ND	ND	ND	ND	ND
	2	December 3, 2022	0	17	168	ND	ND	ND	ND	ND	ND	ND	ND
	4	December 3, 2022	0	23	125	ND	ND	ND	ND	ND	ND	ND	ND
BH22-20	0	December 3, 2022	0	25	121	ND	ND	ND	ND	ND	ND	ND	ND
	2	December 3, 2022	0	31	150	ND	ND	ND	ND	ND	ND	ND	ND
	4	December 3, 2022	0	15	170	ND	ND	ND	ND	ND	ND	ND	ND
BH22-21	8	February 21, 2023	0	42	10	ND	ND	ND	ND	ND	ND	ND	ND
	9	February 21, 2023	0	45	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-22	6	February 21, 2023	0	40	129	ND	ND	ND	ND	ND	ND	ND	ND
	8	February 21, 2023	0	25	92	ND	ND	ND	ND	ND	ND	ND	ND
BH22-23	4	February 21, 2023	0	39	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6	February 21, 2023	0	25	ND	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria



Client Name: Devon Energy Production Company, LP
 Site Name: North Pure Gold 8 Federal #006 - West
 NM OCD Tracking #: nRM2004149681
 Project #: 21E-02816-07
 Lab Reports: 2102438, 2102440, 2102441, 2301867, 2301A35, 2302999, and 2305B55

Table 6. Confirmatory Sample Field Screen and Laboratory Results - West - Depth to Groundwater 51-100 feet bgs

Sample Description		Field Screening			Petroleum Hydrocarbons							Inorganic	
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MIRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS21-01	4.5	February 5, 2021	-	16	209	ND	ND	ND	ND	ND	ND	ND	67
BS21-02	5.5	February 5, 2021	-	-	8,414	ND	ND	ND	17	ND	17	17	8,200
BS21-03	4	February 5, 2021	-	-	4,813	ND	ND	ND	770	460	770	1230	2,300
BS21-04	2	February 5, 2021	-	46	297	ND	ND	ND	ND	ND	ND	ND	380
BS21-05	2.5	February 5, 2021	-	11	471	ND	ND	ND	ND	ND	ND	ND	200
BS21-06	3	February 5, 2021	-	14	480	ND	ND	ND	ND	ND	ND	ND	190
BS21-07	2.5	February 5, 2021	-	6	339	ND	ND	ND	ND	ND	ND	ND	190
BS21-08	8	February 5, 2021	-	-	1,215	ND	ND	ND	150	160	150	310	800
BS23-09	5	January 20, 2023	0	19	1,085	ND	ND	ND	ND	ND	ND	ND	360
BS23-10	4.5	January 20, 2023	0	56	635	ND	ND	ND	ND	ND	ND	ND	200
BS23-11	4.5	January 20, 2023	0	24	522	ND	ND	ND	ND	ND	ND	ND	150
BS23-12	4	January 20, 2023	0	13	238	ND	ND	ND	ND	ND	ND	ND	95
BS23-13	3	January 20, 2023	0	36	376	ND	ND	ND	ND	ND	ND	ND	ND
BS23-14	3	January 20, 2023	0	6	173	ND	ND	ND	ND	ND	ND	ND	ND
BS23-15	3	January 20, 2023	0	11	161	ND	ND	ND	ND	ND	ND	ND	ND
BS23-16	2.5	January 25, 2023	0	4	314	ND	ND	ND	ND	ND	ND	ND	ND
BS23-17	2.5	January 25, 2023	0	0	290	ND	ND	ND	ND	ND	ND	ND	ND
BS23-18	2	January 25, 2023	0	2	352	ND	ND	ND	ND	ND	ND	ND	ND
BS23-19	2.5	January 25, 2023	0	4	56	ND	ND	ND	ND	ND	ND	ND	ND
BS23-20	2.5	January 25, 2023	0	15	83	ND	ND	ND	ND	ND	ND	ND	ND
BS23-21	2.5	January 25, 2023	0	2	51	ND	ND	ND	ND	ND	ND	ND	ND
BS23-22	3	January 25, 2023	0	1	99	ND	ND	ND	ND	ND	ND	ND	ND
BS23-23	0	February 20, 2023	0	68	139	ND	ND	ND	ND	ND	ND	ND	ND
BS23-24	0	February 20, 2023	0	31	248	ND	ND	ND	ND	ND	ND	ND	65
BS23-25	0	February 20, 2023	0	0	242	ND	ND	ND	ND	ND	ND	ND	92
BS23-26	0	February 20, 2023	0	0	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-27	0	February 20, 2023	0	0	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-28	0	February 20, 2023	0	63	155	ND	ND	ND	ND	ND	ND	ND	ND
BS23-29	0	February 20, 2023	0	13	203	ND	ND	ND	ND	ND	ND	ND	ND
BS23-30	0	February 20, 2023	0	19	174	ND	ND	ND	ND	ND	ND	ND	ND
BS23-31	0	February 20, 2023	0	19	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-32	0	February 20, 2023	0	18	457	ND	ND	ND	ND	ND	ND	ND	300
BS23-33	0	February 20, 2023	0	0	173	ND	ND	ND	ND	ND	ND	ND	ND
BS23-34	0	February 20, 2023	0	0	144	ND	ND	ND	ND	ND	ND	ND	ND
BS23-35	0	February 20, 2023	0	0	109	ND	ND	ND	ND	ND	ND	ND	ND
BS23-36	0	February 20, 2023	0	6	142	ND	ND	ND	ND	ND	ND	ND	ND
BS23-37	0	February 20, 2023	0	21	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-38	0	February 20, 2023	0	31	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-39	0	February 20, 2023	0	87	99	ND	ND	ND	11	ND	11	11	ND
BS23-40	0	February 20, 2023	0	84	148	ND	ND	ND	ND	ND	ND	ND	ND
BS23-41	0	February 20, 2023	0	1	101	ND	ND	ND	ND	ND	ND	ND	ND
BS23-42	0	February 20, 2023	0	0	96	ND	ND	ND	ND	ND	ND	ND	ND
BS23-43	0	February 20, 2023	0	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-44	0	February 20, 2023	0	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-45	0	February 20, 2023	0	0	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-46	0	February 20, 2023	0	0	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-47	0	February 20, 2023	0	20	304	ND	ND	ND	250	420	250	670	270
		May 19, 2023	0	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-48	0	February 20, 2023	0	21	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-49	0	February 20, 2023	0	11	102	ND	ND	ND	ND	ND	ND	ND	ND



BS23-50	0	February 20, 2023	0	19	83	ND	ND	ND	25	74	25	99	ND
BS23-51	0	February 20, 2023	0	0	79	ND	ND	ND	ND	ND	ND	ND	ND
BS23-52	0	February 20, 2023	0	0	295	ND	ND	ND	39	120	39	159	220
		May 19, 2023	0	32	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-53	0	February 20, 2023	0	21	75	ND	ND	ND	ND	ND	ND	ND	ND
BS23-54	0	February 20, 2023	0	0	70	ND	ND	ND	ND	ND	ND	ND	ND
BS23-55	0	February 20, 2023	0	43	24	ND	ND	ND	ND	ND	ND	ND	ND
BS23-56	0	February 20, 2023	0	35	20	ND	ND	ND	ND	ND	ND	ND	ND
BS23-57	0	February 20, 2023	0	23	15	ND	ND	ND	ND	ND	ND	ND	ND
BS23-58	0	February 20, 2023	0	38	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-59	0	February 20, 2023	0	24	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-60	0	February 20, 2023	0	31	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-61	0	February 20, 2023	0	60	25	ND	ND	ND	ND	ND	ND	ND	ND
BS23-62	0	February 20, 2023	0	63	25	ND	ND	ND	ND	ND	ND	ND	ND
BS23-63	0	February 20, 2023	0	76	7	ND	ND	ND	ND	ND	ND	ND	ND
BS23-64	0	February 20, 2023	0	59	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-65	0	February 20, 2023	0	34	23	ND	ND	ND	ND	ND	ND	ND	ND
BS23-66	0	February 20, 2023	0	47	23	ND	ND	ND	ND	ND	ND	ND	ND
BS23-67	0	February 20, 2023	0	75	14	ND	ND	ND	ND	ND	ND	ND	ND
BS23-68	0	February 20, 2023	0	31	5	ND	ND	ND	ND	ND	ND	ND	ND
BS23-69	0	February 20, 2023	0	43	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-70	0	February 20, 2023	0	42	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-71	0	February 20, 2023	0	32	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-72	0	February 20, 2023	0	39	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS21-01	0-4.5	February 5, 2021	-	8	53	ND	ND	ND	ND	ND	ND	ND	ND
WS21-02	0-3	February 5, 2021	-	26	139	ND	ND	ND	ND	ND	ND	ND	230
WS21-03	0-3	February 5, 2021	-	27	135	ND	ND	ND	ND	ND	ND	ND	99
WS21-04	0-3	February 5, 2021	-	-	610	ND	ND	ND	110	110	110	220	350
		January 20, 2023	0	49	401	ND	ND	ND	ND	ND	ND	ND	99
WS21-05	0-2	February 5, 2021	-	15	76	ND	ND	ND	ND	ND	ND	ND	94
WS21-06	0-2.5	February 5, 2021	-	38	288	ND	ND	ND	ND	ND	ND	ND	200
WS21-07	0-3	February 5, 2021	-	14	178	ND	ND	ND	ND	ND	ND	ND	150
WS21-08	0-3	February 5, 2021	-	28	264	ND	ND	ND	ND	ND	ND	ND	210
WS23-09	0-8	January 20, 2023	0	23	337	ND	ND	ND	ND	ND	ND	ND	100
WS23-10	0-4	January 20, 2023	0	5	73	ND	ND	ND	ND	ND	ND	ND	ND
WS23-11	3-4	January 20, 2023	0	37	392	ND	ND	ND	ND	ND	ND	ND	110
WS23-12	3-8	January 20, 2023	0	10	116	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria

Bold and blue shaded indicates re-collected sample results inside NMOCD Closure Criteria



APPENDIX A - NMOCD C-141 Reports

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

n HMP 1410424987

OPERATOR Initial Report Final Report

Name of Company Devon Energy <i>6137</i>	Contact Daniel Suniga
Address PO Box 250 Artesia, NM 88211	Telephone No. 575-390-5850
Facility Name North Pure Gold 8-6	Facility Type Oil

Surface Owner	Mineral Owner	API No. 30-015-27618
---------------	---------------	-----------------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	8	23S	31E	1980	South	2310	East	Eddy

Latitude: ___ Longitude: ___

NATURE OF RELEASE

Type of Release Spill	Volume of Release 5bbls Oil/25bbls PW	Volume Recovered 3bbls Oil/15bbls PW
Source of Release Corrosion of 2inch nipple off pumping tee	Date and Hour of Occurrence 4/4/14 11:30AM	Date and Hour of Discovery 4/4/14 11:30AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jerry Mathews-Superintendent (12:30pm) Amancio Cruz-EHS (12:30pm) Jim Amos-BLM Mike Bratcher (OCD)	
By Whom? Kevin Phillips – Assistant Foreman	Date and Hour 4/4/14 3:30pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RECEIVED
APR 10 2014
NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
At the NPG 8-6 the lease operator pulled up on location and visually noticed oil and produced water spill

Describe Area Affected and Cleanup Action Taken.*
At the NPG 8-6 the lease operator pulled up on location and visually noticed oil and produced water spill. He immediately shut in the well and contacted the assistant foreman for that area. The lease operator also called lobo trucking to do recovery on the 5barrels of Oil and 25 barrels of produced water. Approximately 3 barrels of Oil were recovered and 15 Produced water were recovered. Assistant Foreman's also called out TCS (backhoe operator) to assist. Lease Operator then called out for a crew to replace the 2inch nipples on the wellhead that was the cause of the corrosion where the leak was at.

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

Signature: <i>Veronica Teel</i>	OIL CONSERVATION DIVISION	
Printed Name: Veronica Teel	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Field Admin Support	Approval Date: <i>4/14/14</i>	Expiration Date: <i>NA</i>
E-mail Address: Veronica.Teel@dvn.com	Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	Attached <input type="checkbox"/>
Date: 4/4/14 Phone: 575-748-9933	5/14/14	2222255

* Attach Additional Sheets If Necessary

District I
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District II
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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	NRM2004149681
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Amanda T. Davis	Contact Telephone 575-748-0176
Contact email amanda.davis@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers HWY	

Location of Release Source

Latitude 32.316912 Longitude -103.799585
(NAD 83 in decimal degrees to 5 decimal places)

Site Name North Pure Gold 8 Fed #6	Site Type Oil
Date Release Discovered 2/3/2020	API# (if applicable) 30-015-27618

Unit Letter	Section	Township	Range	County
J	8	23S	31E	Eddy

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) .5	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 5	Volume Recovered (bbls) 0
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release The poly flowline on the edge of the wellpad developed a hole causing fluid to release to the ground on and off the pad. See attached spill calculation.

State of New Mexico
 Oil Conservation Division

Incident ID	NRM2004149681
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why: This release was not inside secondary containment.
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Kendra DeHoyos</u> Title: <u>EHS Associate</u> Signature: <u><i>Kendra DeHoyos</i></u> Date: <u>2/6/2020</u> email: <u>kendra.dehoyos@dvn.com</u> Telephone: <u>575-748-3371</u>
<p><u>OCD Only</u></p> Received by: <u>Ramona Marcus</u> Date: <u>2/10/2020</u>

Spill Volume(Bbls) Calculator	
<i>Inputs in blue , Outputs in red</i>	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
<u>2370</u>	<u>1.075</u>
Cubic Feet of Soil Impacted	<u>212.313</u>
Barrels of Soil Impacted	<u>37.85</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>5.68</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	5.68
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
<u>0</u>	<u>0.000</u>
Standing fluid	<u>0.000</u>
<u>Total fluids spilled</u>	<u>5.677</u>

Instructions
1. Input spill area measurements in feet, if less than one foot use converter below.
2. Select a soil type from the drop down menu.
3. Select a saturation level from the drop down menu.
(For data gathering instructions see appendix tab)

Inches to Feet Converter		
	Inches	Feet
Length	<u>0.15</u>	<u>0.013</u>
Width		<u>0.000</u>
Height		<u>0.000</u>

Incident ID	nHMP1410424987, nRM2004149681
District RP	2RP-2255
Facility ID	30-015-27618
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>>55</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nHMP1410424987, nRM2004149681
District RP	2RP-2255
Facility ID	30-015-27618
Application ID	

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

Printed Name: Jeff Harvard Title: President and Manager

Signature: _____ Date: _____

email: jharvard@hpcnm.com Telephone: 575-208-7135

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nHMP1410424987, nRM2004149681
District RP	2RP-2255
Facility ID	30-015-27618
Application ID	

Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: Jeff Harvard Title: President and Manager
 Signature: _____ Date: _____
 email: jharvard@hpcnm.com Telephone: 575-208-7135

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX B – Closure Criteria Research Documentation

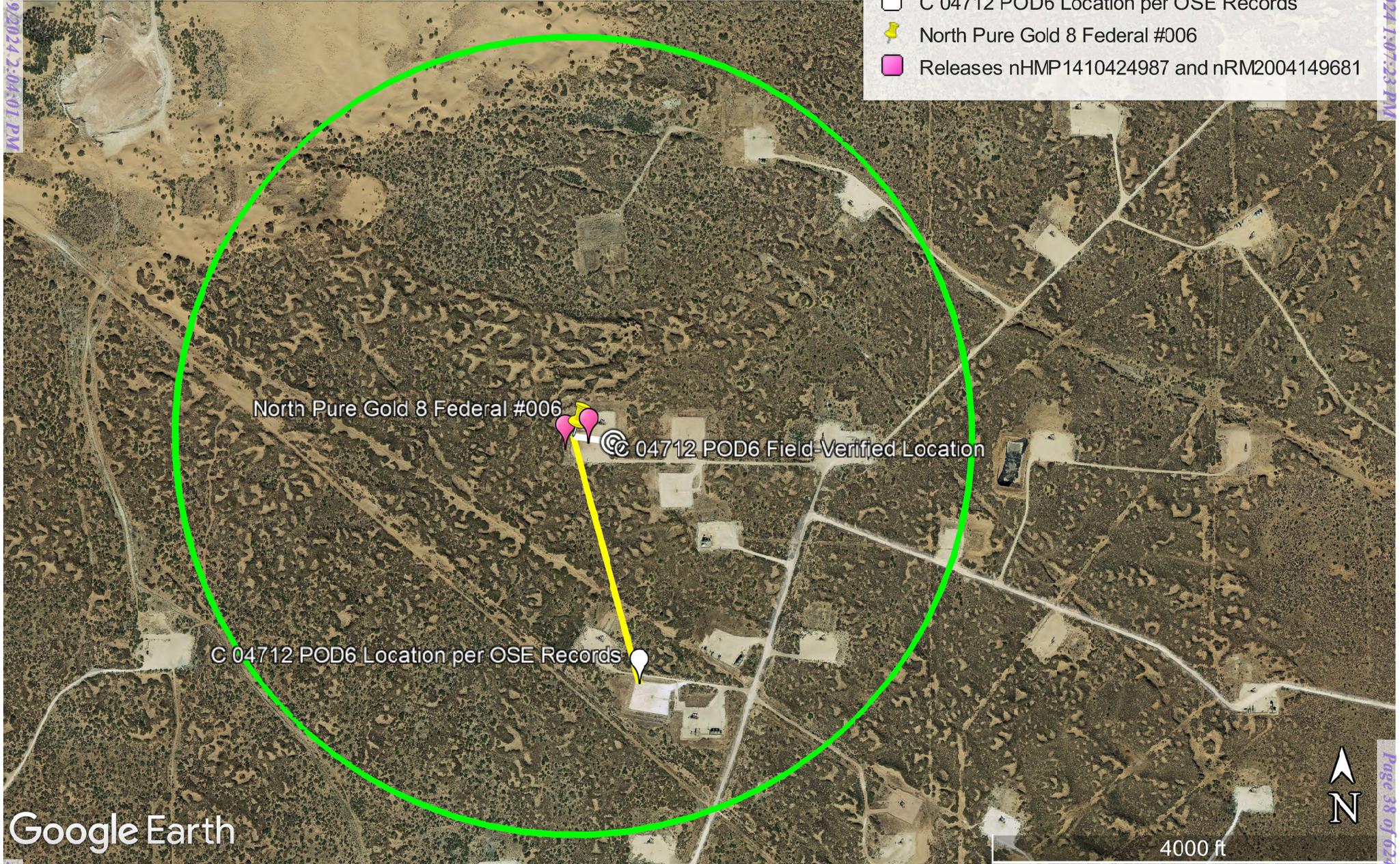
North Pure Gold 8 Federal #006 DTGW Reference

C 04712 POD6 Drilled to 59 feet bgs on March 7, 2023 by Vision Resources, Inc.
Borehole was dry at time of drilling

Interface probe was used 72 hours after drilling to confirm that borehole remained completely dry to 59 feet bgs.

Legend

-  0.5 mile radius
-  1,680 feet to C 04712 POD6 per OSE Records
-  273 feet to C 04712 Verified Location
-  C 04712 POD6 Field-Verified Location
-  C 04712 POD6 Location per OSE Records
-  North Pure Gold 8 Federal #006
-  Releases nHMP1410424987 and nRM2004149681





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_04712 POD6		CUB	ED	3	3	4	08	23S	31E	613147	3575740	480	55		
C_04712 POD5		CUB	ED	4	4	3	09	23S	31E	614393	3575754	1464	55		
C_02492		CUB	ED	4	4	4	06	23S	31E	612056	3577320*	1465	135	85	50
C_02865		CUB	ED	4	4	4	06	23S	31E	612056	3577320*	1465	174		
C_02492 POD2		C	ED	3	2	2	07	23S	31E	611767	3576996	1466	400	125	275
C_02774		CUB	ED	3	1	3	04	23S	31E	613857	3577745*	1770	1660		
C_02664		CUB	ED	3	3	2	05	23S	31E	613049	3578138*	1941	4291	354	3937

Average Depth to Water: **188 feet**
 Minimum Depth: **85 feet**
 Maximum Depth: **354 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 612997

Northing (Y): 3576197

Radius: 2000

*UTM location was derived from PLSS - see Help

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

5/17/23 11:38 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	(acre ft per annum)				County	POD Number	Well Tag	Code	Grant	Source	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)			(NAD83 UTM in meters)					
	basin	Use	Diversion	Owner							q	q	q	X	Y	Distance			
C 04712	CUB	MON	0	VERTEX RESOURCES	ED	C 04712 POD6	NA			3	3	4	08	23S	31E	613146	3575740		480
C 04200	CUB	EXP	0	JIMMY MILLS GST TRUST	ED	C 04200 POD3	NA			2	2	07	23S	31E		612130	3577147		1286
					ED	C 04200 POD2				2	2	07	23S	31E		611893	3577123		1440
C 04712	CUB	MON	0	VERTEX RESOURCES	ED	C 04712 POD5	NA			4	4	3	09	23S	31E	614392	3575754		1464
C 02492	CUB	COM	105	THE JIMMY MILLS GST TRUST	ED	C 02492			Shallow	4	4	4	06	23S	31E	612056	3577320*		1465
C 02865	CUB	EXP	0	STACY MILLS	ED	C 02865				4	4	4	06	23S	31E	612056	3577320*		1465
C 03668	C	STK	3	J T MILLS 2005 GST TRUST	ED	C 02492 POD2			Shallow	3	2	2	07	23S	31E	611767	3576996		1466
C 04200	CUB	EXP	0	JIMMY MILLS GST TRUST	ED	C 04200 POD5	NA			4	4	06	23S	31E		612138	3577393		1472
					ED	C 04200 POD1				2	2	07	23S	31E		611802	3577058		1472
C 03389	C	STK	3	JIMMY MILLS 2005 GST TRUST	ED	C 03389				1	1	3	17	23S	31E	612316	3574683		1660
C 03394	C	PUB	0	JAMES HAMILTON CONSTRUCTION CO	ED	C 03389				1	1	3	17	23S	31E	612316	3574683		1660
C 04200	CUB	EXP	0	JIMMY MILLS GST TRUST	ED	C 04200 POD4	NA			4	4	06	23S	31E		611996	3577521		1660
C 02774	CUB	MON	0	U.S. DEPT. OF ENERGY - WIPP	ED	C 02774				3	1	3	04	23S	31E	613857	3577745*		1770
C 02664	CUB	MON	0	SANDIA NATIONAL LABORATORIES	ED	C 02664			Shallow	3	3	2	05	23S	31E	613049	3578138*		1941

Record Count: 14

UTMNAD83 Radius Search (in meters):

Easting (X): 612997

Northing (Y): 3576197

Radius: 2000

Sorted by: Distance

*UTM location was derived from PLSS - see Help

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5/17/23 11:51 AM

ACTIVE & INACTIVE POINTS OF DIVERSION



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04712 POD6	3	3	4	08	23S	31E	613147	3575740

x

Driller License: 1833	Driller Company: VISION RESOURCES, INC	
Driller Name: JASON MALEY		
Drill Start Date: 03/09/2023	Drill Finish Date: 03/09/2023	Plug Date: 03/14/2023
Log File Date: 04/04/2023	PCW Rev Date:	Source:
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well: 55 feet	Depth Water:

x

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5/17/23 11:52 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Water Right Summary



[get image list](#)

WR File Number: C 04712 **Subbasin:** CUB **Cross Reference:** -
Primary Purpose: MON MONITORING WELL
Primary Status: PMT PERMIT
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 0 **Cause/Case:** -
Owner: VERTEX RESOURCES
User: HARVARD PETROLEUM COMPANY LLC
Contact: JUSTIN WARREN

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
			1	2		To				
743189	EXPL	2023-02-21	PMT	APR	C 04712 POD1-6	T		0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q				X	Y	Other Location Desc		
			64	Q16	Q4	Sec				Tws	Rng
C 04712 POD1	NA		1	4	1	31	23S	32E	620917	3570289	SDE
C 04712 POD2	NA		4	4	4	17	23S	32E	623332	3574331	TOMCAT17
C 04712 POD3	NA		4	1	2	24	23S	31E	619651	3573877	TODD24
C 04712 POD4	NA		1	4	3	14	23S	31E	617535	3574316	TODD14
C 04712 POD5	NA		4	4	3	09	23S	31E	614393	3575754	NPG9
C 04712 POD6	NA		3	3	4	08	23S	31E	613147	3575740	NPG8

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5/17/23 12:05 PM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02492 POD2	3	2	2	07	23S	31E	611767	3576996

Driller License: 1509	Driller Company: BMS DRILLING COMPANY	
Driller Name: ROYBAL, JOE D. (LD)		
Drill Start Date: 05/14/2012	Drill Finish Date: 05/31/2012	Plug Date:
Log File Date: 08/27/2013	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 30 GPM
Casing Size: 6.00	Depth Well: 400 feet	Depth Water: 125 feet

Meter Number: 16563	Meter Make: MASTERMETER
Meter Serial Number: 53527168	Meter Multiplier: 1.0000
Number of Dials: 9	Meter Type: Diversion
Unit of Measure: Gallons	Return Flow Percent:
Usage Multiplier:	Reading Frequency:

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/01/2015	2015	39508400	A	RPT		0
04/01/2015	2015	47638000	A	RPT		24.949
04/30/2015	2015	51651000	A	RPT		12.315
05/31/2015	2015	56066600	A	RPT		13.551
07/01/2015	2015	58740300	A	RPT		8.205
08/01/2015	2015	62357200	A	RPT		11.100
08/31/2015	2015	66100700	A	RPT		11.488
10/01/2015	2015	69225500	A	RPT		9.590
12/01/2015	2015	76310300	A	RPT		21.742
01/01/2016	2016	76310300	A	RPT		0
02/01/2016	2016	76310300	A	RPT		0
03/02/2016	2016	78841100	A	RPT		7.767
04/01/2016	2016	80952800	A	RPT		6.481
05/01/2016	2016	82055300	A	RPT		3.383
06/01/2016	2016	85605600	A	RPT		10.895
07/01/2016	2016	88115890	A	RPT		7.704
07/02/2016	2016	22996000	A	RPT		0
08/01/2016	2016	23851600	A	RPT		2.626
10/01/2016	2016	29486000	A	RPT		17.291
11/01/2016	2016	29738900	A	RPT		0.776
12/01/2016	2016	29738900	A	RPT		0
12/31/2016	2016	29738900	A	RPT		0

****YTD Meter Amounts:**

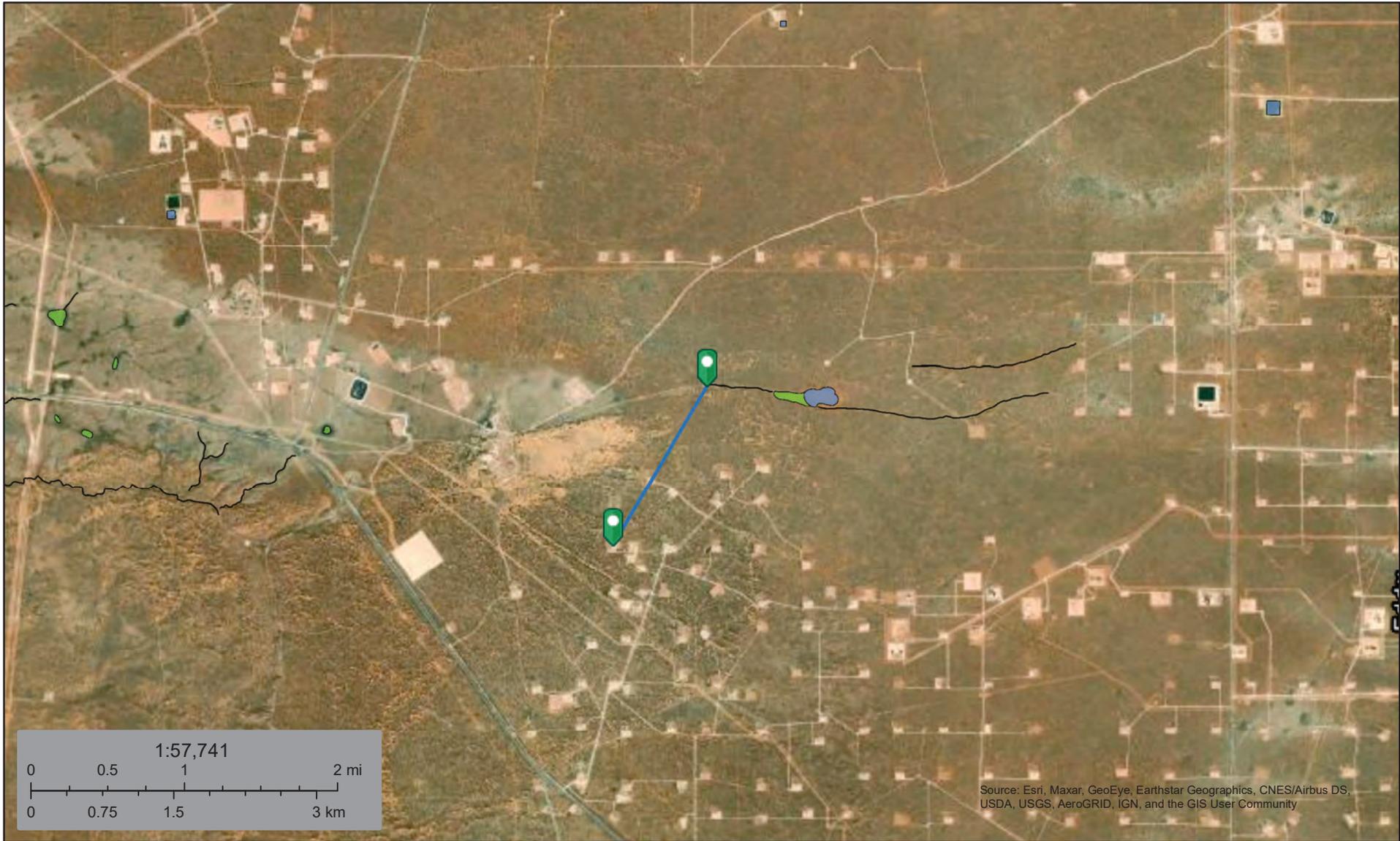
Year	Amount
2015	112.940

2016 56.923

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5/10/21 11:50 AM

POINT OF DIVERSION SUMMARY

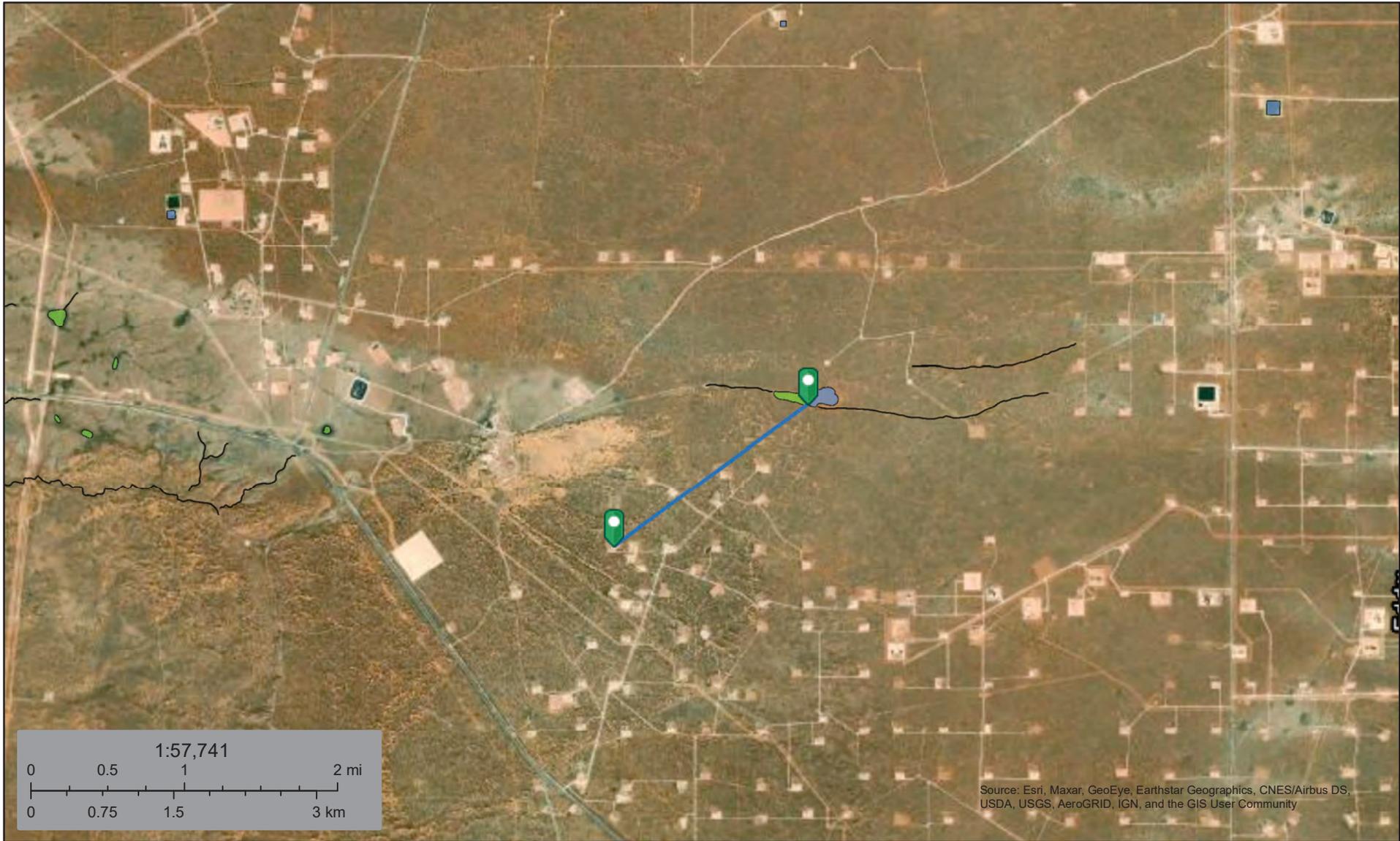


May 10, 2021

Wetlands

- | | | | | | |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland |  | Lake |
|  | Estuarine and Marine Wetland |  | Freshwater Forested/Shrub Wetland |  | Other |
| | |  | Freshwater Pond |  | 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.



May 10, 2021

Wetlands

- | | | | | | |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland |  | Lake |
|  | Estuarine and Marine Wetland |  | Freshwater Forested/Shrub Wetland |  | Other |
| | |  | Freshwater Pond |  | Riverine |

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North Pure Gold 8 Fed 6

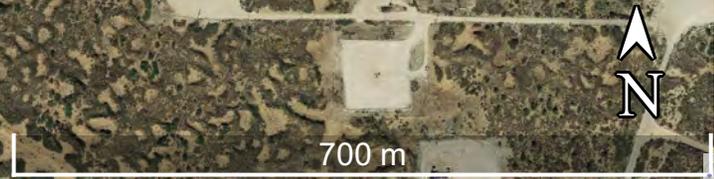
Nearest Residence 4,843 ft.

Legend

 Residence

Residence 

 32.316912 -103.799585





New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02492	4	4	4	06	23S	31E	612056	3577320*

Driller License:		Driller Company:	
Driller Name:	UNKNOWN		
Drill Start Date:		Drill Finish Date:	12/31/2048
Log File Date:		PCW Rev Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	6.00	Depth Well:	135 feet
		Plug Date:	
		Source:	Shallow
		Estimated Yield:	100 GPM
		Depth Water:	85 feet

Meter Number:	550	Meter Make:	MASTER METER
Meter Serial Number:	3368776	Meter Multiplier:	100.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Gallons	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
02/15/1999	1999	122836	A	ms		0
11/17/1999	1999	138743	A	ms		4.882
01/03/2000	1999	154398	A	ms		4.804
04/05/2000	2000	189789	A	RPT		10.861
07/04/2000	2000	228535	A	mb		11.891
10/13/2000	2000	266296	A	RPT		11.588
01/22/2001	2000	295138	A	RPT		8.851
10/10/2001	2001	307651	A	RPT		3.840
10/10/2001	2001	31627	A	RPT		0
01/12/2002	2002	37948	A	tg		1.940
01/10/2003	2002	131852	A	RPT		28.818
04/10/2003	2003	162922	A	ab		9.535
07/09/2003	2003	192583	A	RPT		9.103
07/10/2007	2007	644760	A	RPT		138.768
10/12/2007	2007	676471	A	RPT		9.732
07/07/2008	2008	718642	A	RPT		12.942
08/01/2008	2008	0	A	RPT		0
10/10/2008	2008	25191	A	RPT		7.731
12/31/2008	2008	54476	A	RPT		8.987
07/08/2009	2009	118830	A	RPT		19.750
07/07/2010	2010	246822	A	RPT		39.279
07/27/2010	2010	253644	A	RPT		2.094
07/27/2010	2010	13826	A	RPT		0
10/12/2010	2010	38174	A	RPT		7.472
12/31/2010	2010	60370	A	RPT		6.812

01/05/2011	2011	60370	A	RPT	0
04/01/2011	2011	90751	A	RPT	9.324
07/01/2011	2011	123508	A	RPT	10.053
10/02/2011	2011	152261	A	RPT	8.824
01/16/2012	2011	209359	A	RPT	17.523
04/10/2012	2012	273286	A	RPT	19.618
01/10/2013	2012	354860	A	RPT	25.034
01/12/2013	2013	235897	A	RPT	0
04/01/2013	2013	287079	A	RPT	15.707
07/10/2013	2013	320335	A	RPT	10.206
09/30/2013	2013	340673	A	RPT	6.242
12/31/2014	2014	463375	A	RPT	37.656
03/31/2015	2015	482191	A	RPT	5.774
07/01/2015	2015	504065	A	RPT	6.713
10/01/2015	2015	523612	A	RPT	5.999
01/06/2016	2015	541558	A	RPT	5.507
04/01/2016	2016	556397	A	RPT	4.554
06/30/2016	2016	561120	A	RPT	1.449
10/01/2016	2016	593337	A	RPT	9.887
12/31/2016	2016	612355	A	RPT	5.836

x

**YTD Meter Amounts:	Year	Amount
	1999	9.686
	2000	43.191
	2001	3.840
	2002	30.758
	2003	18.638
	2007	148.500
	2008	29.660
	2009	19.750
	2010	55.657
	2011	45.724
	2012	44.652
	2013	32.155
	2014	37.656
	2015	23.993
	2016	21.726

*UTM location was derived from PLSS - see Help

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5/10/21 11:31 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: C 02492 **Subbasin:** CUB **Cross Reference:** -
Primary Purpose: COM COMMERCIAL
Primary Status: PMT PERMIT
Total Acres: 0 **Subfile:** - **Header:** -
Total Diversion: 105 **Cause/Case:** -
Owner: THE JIMMY MILLS GST TRUST
Contact: STACY MILLS

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
			1	2		To				
422943	COWNF	2009-02-02	CHG	PRC	C 02492	T			0	
305274	COWNF	2004-05-28	CHG	PRC	C 02492	T		0	0	
211318	SUPPL	2001-06-20	APP	WDR	C 02492 S	T		0	0	
195265	CLW	2000-11-02	APP	WDR	C 02492 INTO C-2638	T		0	25	
169733	ADM	1999-11-18	PMT	MTR	C 02492	T		0	105	
208675	DCL	1996-04-16	DCL	PRC	C 02492	T		0	105	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	Q16	Q4	Sec	Tw	Rng	X	Y	Other Location Desc
C 02492		Shallow	64	4	4	06	23S	31E	612056	3577320*	

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

Place of Use

Q	Q	Q16	Q4	Sec	Tw	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256	64	4	06	23S	31E			105		COM		DCL	

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	105		COM		GW

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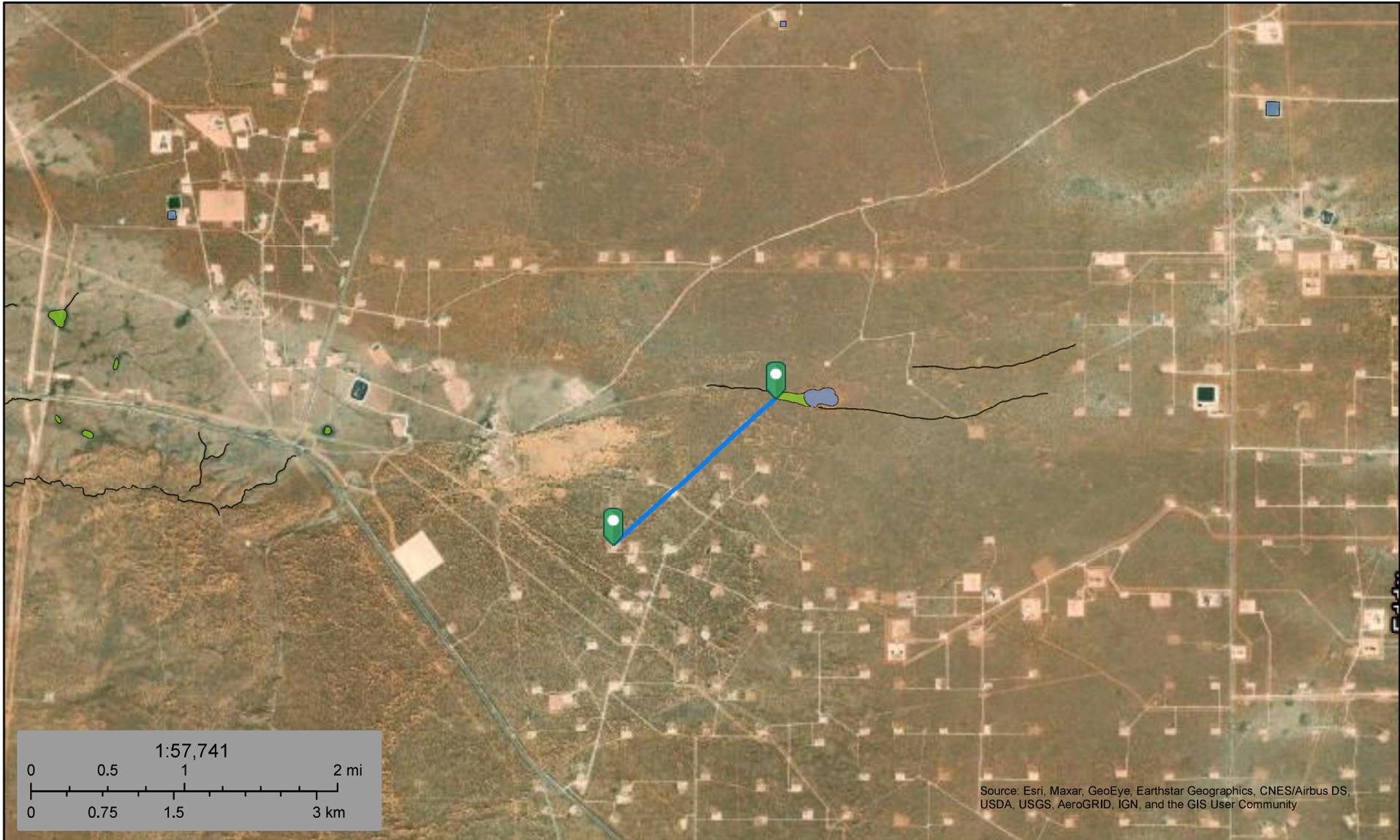
5/10/21 11:26 AM

WATER RIGHT
SUMMARY



U.S. Fish and Wildlife Service National Wetlands Inventory

NPG 8 Fed 6, Wetland 6370 feet



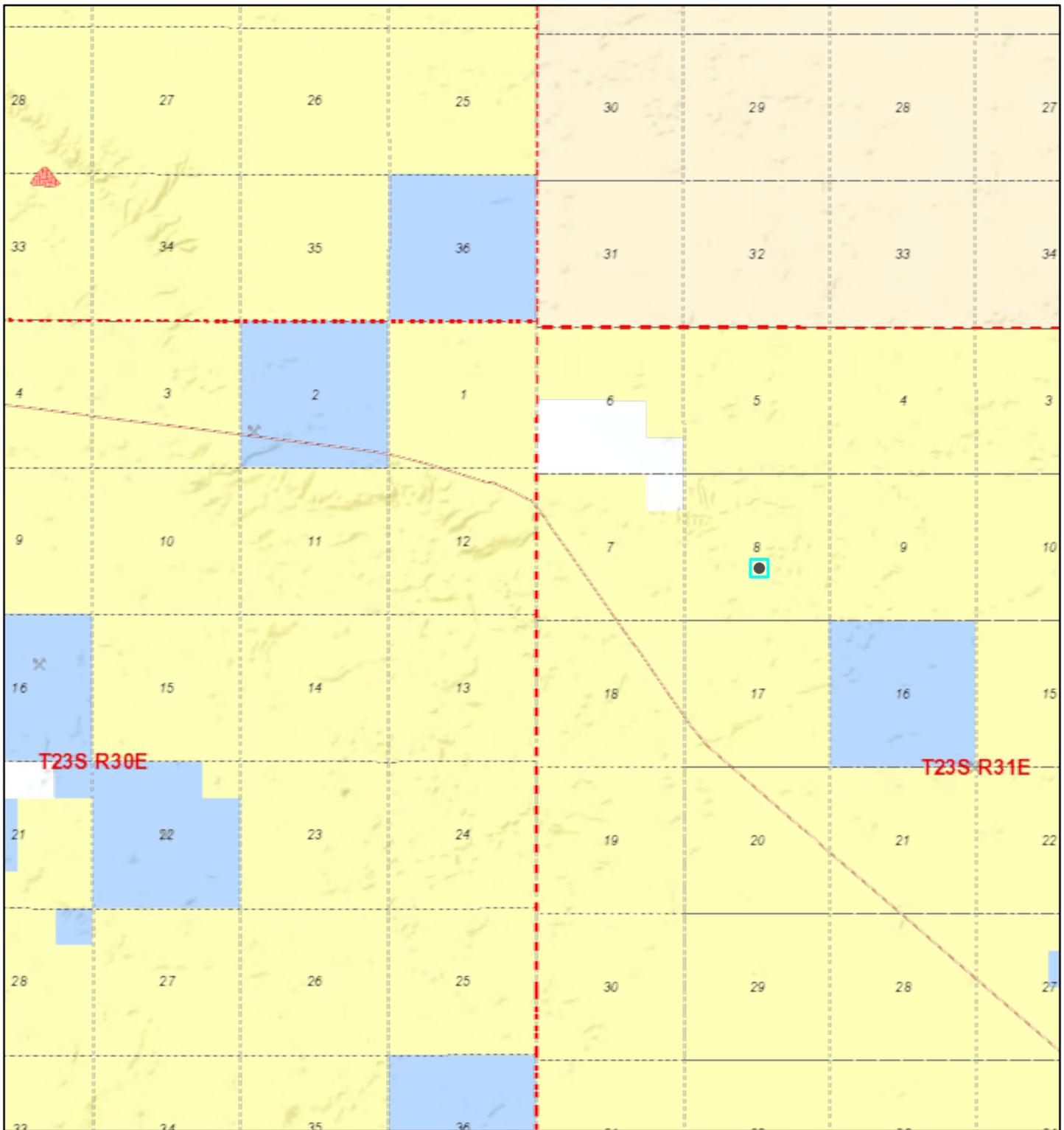
May 10, 2021

Wetlands

- | | | | | | |
|--|--------------------------------|--|-----------------------------------|--|----------|
| | Estuarine and Marine Deepwater | | Freshwater Emergent Wetland | | Lake |
| | Estuarine and Marine Wetland | | Freshwater Forested/Shrub Wetland | | Other |
| | | | Freshwater Pond | | 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.

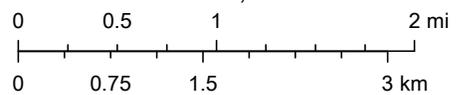
Active Mines in New Mexico



2/23/2020, 2:54:43 PM

1:72,224

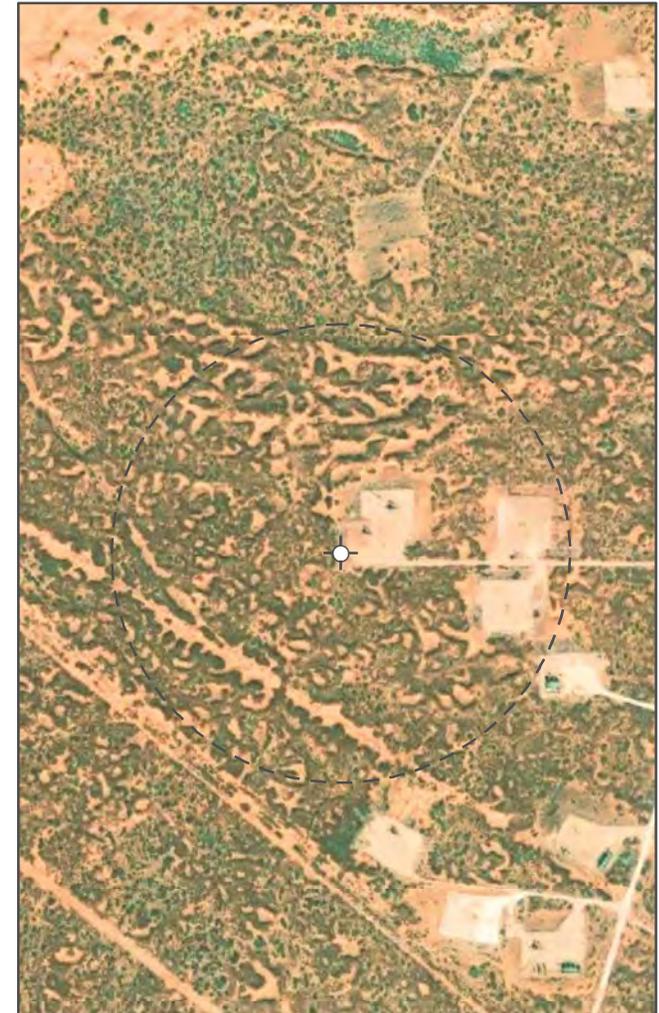
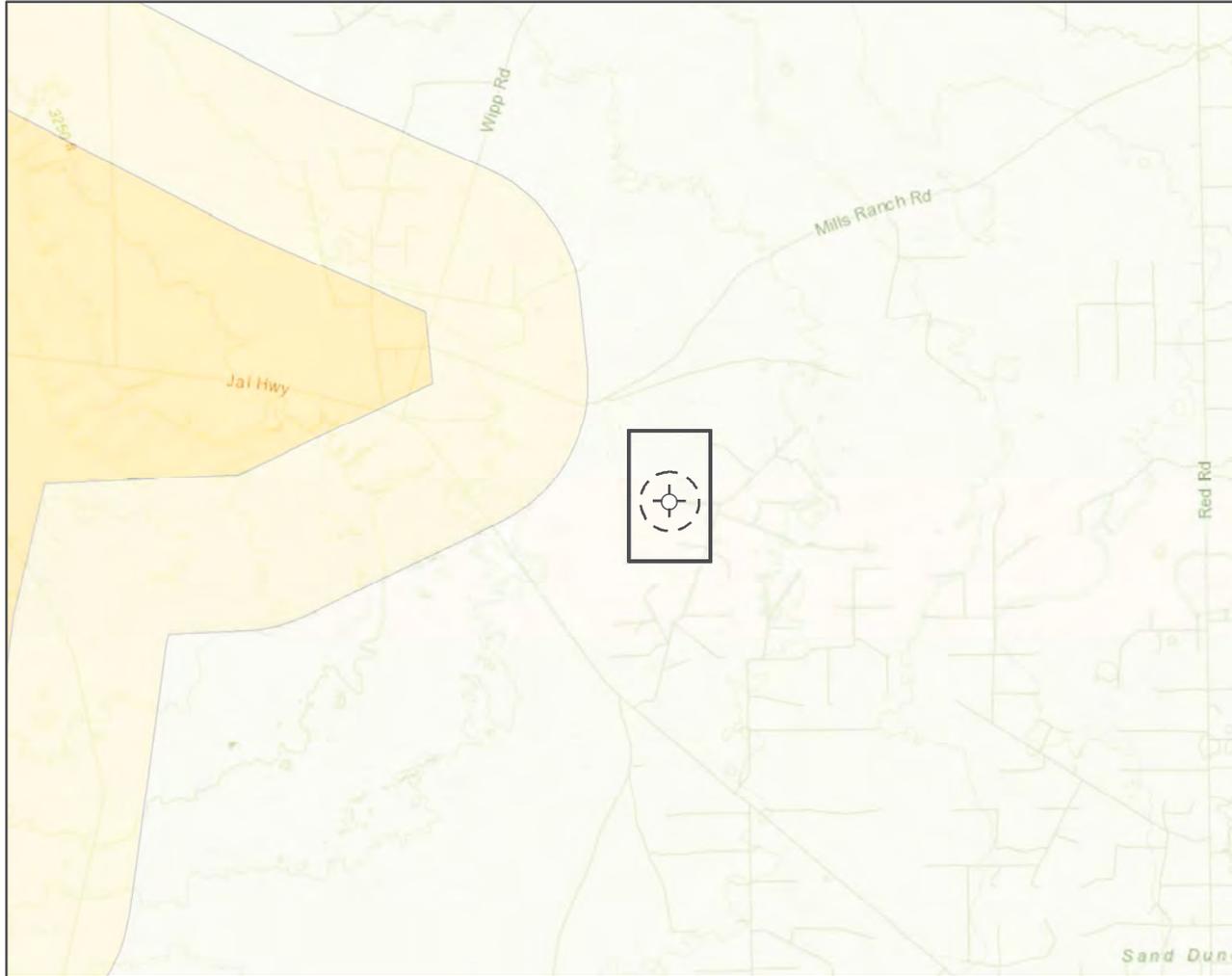
Registered Mines



- ✕ Aggregate, Stone etc.
- ✕ Aggregate, Stone etc.
- ▲ Potash

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

Document Path: G:\Projects\US PROJECTS\Devon Energy Corporation\20E-00141017 - North Pure Gold 8 Fed 6\Figure X Karst Potential Map North Pure Gold 8 Fed 6.mxd



Karst Potential

- Critical
- High
- Medium
- Low

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

Overview Map

0 0.25 0.5 1 mi

Detail Map

0 150 300 600 ft.



Map Center:
Lat/Long: 32.317444, -103.799629

NAD 1983 UTM Zone 13N
Date: May 11/21



**Karst Potential
North Pure Gold 8 Fed #6**

FIGURE:

X



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

Note: Inset Map, ESRI 2020; Overview Map: ESRI World Topographic

VERSATILITY. EXPERTISE.

National Flood Hazard Layer FIRMette



32°19'16.09"N



Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/23/2020 at 5:00:53 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.

0 250 500 1,500 2,000 Feet 1:6,000

32°18'45.68"N

103°47'39.78"W



A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico



February 23, 2020

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

Preface	2
How Soil Surveys Are Made	5
Soil Map	8
Soil Map.....	9
Legend.....	10
Map Unit Legend.....	11
Map Unit Descriptions.....	11
Eddy Area, New Mexico.....	13
KM—Kermit-Berino fine sands, 0 to 3 percent slopes.....	13
References	15

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

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scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

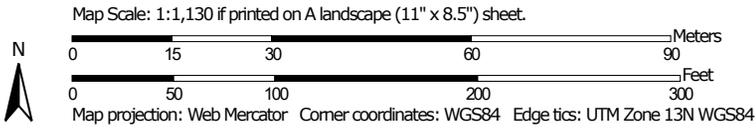
Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



Soil Map may not be valid at this scale.



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MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

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

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

Date(s) aerial images were photographed: Dec 31, 2009—Sep 17, 2017

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

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermit-Berino fine sands, 0 to 3 percent slopes	3.8	100.0%
Totals for Area of Interest		3.8	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Custom Soil Resource Report

Eddy Area, New Mexico**KM—Kermit-Berino fine sands, 0 to 3 percent slopes****Map Unit Setting**

National map unit symbol: 1w4q
Elevation: 3,100 to 4,200 feet
Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent
Berino and similar soils: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit**Setting**

Landform: Plains, alluvial fans
Landform position (three-dimensional): Talf, rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand
H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: Deep Sand (R042XC005NM)
Hydric soil rating: No

Description of Berino**Setting**

Landform: Fan piedmonts, plains
Landform position (three-dimensional): Riser

Custom Soil Resource Report

Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand
H2 - 17 to 50 inches: fine sandy loam
H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 40 percent
Salinity, maximum in profile: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent
Hydric soil rating: No

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Ecological site R042XC005NM Deep Sand

Accessed: 05/10/2021

General information

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



Figure 1. Mapped extent

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

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on terraces, Piedmonts, dunes fields, or upland plains. Parent material consists of eolian deposits and alluvium derived from sandstone. Slopes range from 0 to 15 percent, usually less than 5 percent. Low, stabilized hummocks or dunes frequently occur. Elevations range from 2,842 to 4,500 feet.

Table 2. Representative physiographic features

Landforms	(1) Dune (2) Parna dune (3) Terrace
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–4,500 ft

Slope	0–15%
Aspect	Aspect is not a significant factor

Climatic features

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

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

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

Both temperature and moisture favor warm season perennial plant growth. During years of abundant winter and early spring moisture, cool season growth and annual forbs, make up an important component of this site. Strong winds blow from the west from January through June, which accelerates soil drying during a critical period for cool season plant growth.

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

Table 3. Representative climatic features

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

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

Soils are deep or very deep. Surface textures are sand loam, fine sand or loamy fine sand, Underlying material textures are loamy fine sand, fine sand, sand or fine sandy loam. Because of the coarse textures and rapid drying of the surface, the soil, if unprotected by plant cover and organic residue, becomes windblown and low hummocks or dunes are formed around shrubs.

Characteristic soils are:

Anthony
Aguena
Kermit
Likes
Pintura
Bluepoint

Table 4. Representative soil features

Surface texture	(1) Sand (2) Fine sand (3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to excessively drained

Permeability class	Moderate to very rapid
Soil depth	60–72 in
Surface fragment cover <=3"	0–5%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	3–5 in
Calcium carbonate equivalent (0-40in)	5–15%
Electrical conductivity (0-40in)	0–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–7.8
Subsurface fragment volume <=3" (Depth not specified)	5–10%
Subsurface fragment volume >3" (Depth not specified)	0%

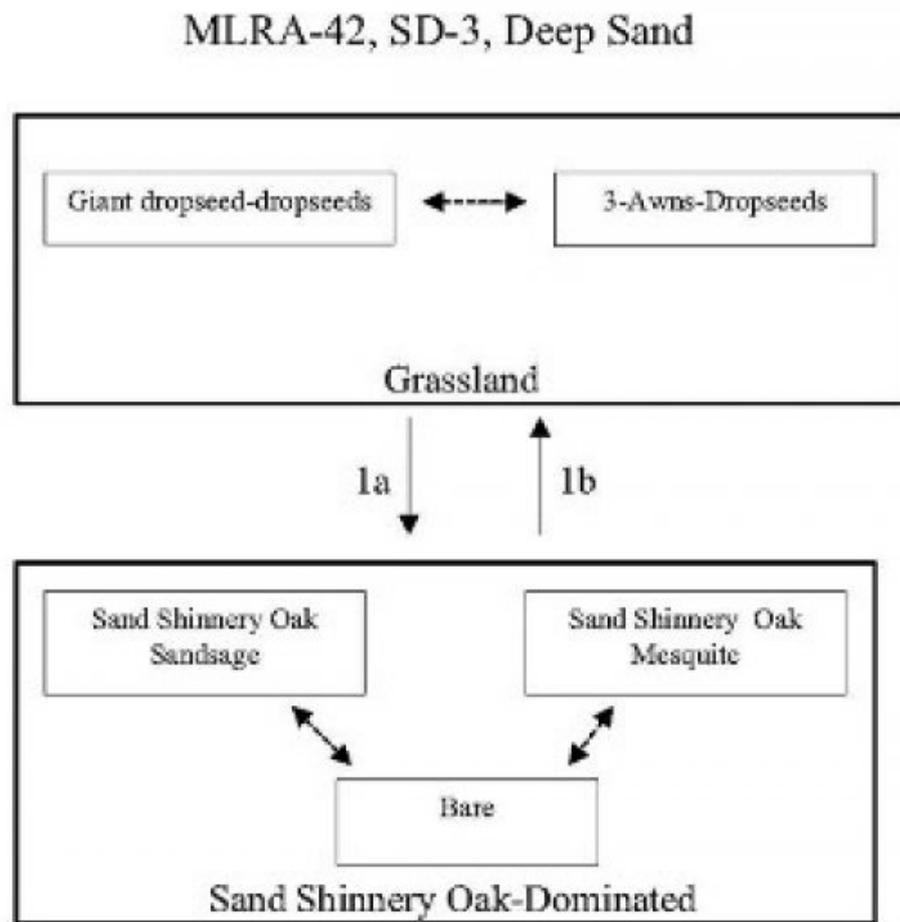
Ecological dynamics

Overview

The Deep Sand site occurs adjacent to and/or intergraded with the Sandhills and Sandy sites (SD-3). The Deep Sand site can be distinguished by slopes less than eight percent (approximately five percent) and textural changes at depths greater than 40 inches. The Deep Sand site has well drained soils with a surface texture of sand or loamy fine sand. The Sandhills site has slopes greater than eight percent and textural depths greater than 60 inches. Conversely, the Sandy site has slopes less than five percent and depths to textural change commonly around 20 inches. The historic plant community of the Deep Sand site is dominated primarily by giant dropseed (*Sporobolus giganteus*) and other dropseeds (*S. flexuosus*, *S. contractus*, *S. cryptandrus*), with scattered shinnery oak (*Quercus havardii*) and soapweed yucca (*Yucca glauca*). Other herbaceous species include threeawns (*Aristida* spp.), bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), and annual and perennial forbs distributed relative to precipitation occurrences. Bare ground and litter compose a significant proportion of ground cover while grasses are the remainder. Shinnery oak will increase with an associated decrease in dropseed and bluestem abundance possibly due to climatic change, fire suppression, interspecific competition, and excessive grazing. Continued grass cover loss may result in a transition to a shinnery oak dominated state with increases in sand sage (*Artemisia filifolia*) and honey mesquite (*Prosopis glandulosa*). However, brush management may restore the grassland component and reverse the shinnery oak state back toward the historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram)



1.a Climate, fire suppression, competition, over grazing

1.b Brush control, Prescribed grazing

Figure 4.

State 1

Historic Climax Plant Community

Community 1.1

Historic Climax Plant Community

State Containing Historic Plant Community

Grassland: The historic plant community is dominated by giant dropseed, other dropseeds, threeawns, and bluestems. Dominant woody plants include shinnery oak and soapweed yucca. Forb abundance and distribution varies and is dependent on annual rainfall. The Deep Sand site typically exists in sandy plains and dunes (Sosebee 1983). Grass dominance stabilizes the potentially erosive sandy soils. Historical fire suppression, however, may have contributed to increased woody plant abundance, which has reduced grass species. Further, drought conditions compounded with excessive grazing likely has driven most grass species out of competition with shrubs which has resulted in a shinnery oak dominated state with sand sage and mesquite (Young et al. 1948).

Diagnosis: Grassland dominated by dropseeds, threeawns, and bluestems. Small shrubs, such as shinnery oak and soapweed yucca, and subshrubs are dispersed throughout the grassland.

Other grasses that could appear on this site would include: flatsedge, almejita signalgrass, big bluestem, Indiangrass, fall witchgrass, hairy grama and red lovegrass

Other shrubs include: fourwing saltbush, mesquite, ephedra and broom snakeweed.

Other forbs include: wooly and scarlet gaura, wooly dalea, phlox heliotrope, scorpionweed, deerstongue, fleabane, nama, hoffmanseggia, lemon beebalm and stickleaf.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	396	858	1320
Shrub/Vine	108	234	360
Forb	96	208	320
Total	600	1300	2000

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	15-20%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	35-40%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	35-40%

Figure 6. Plant community growth curve (percent production by month). NM2805, HCPC. SD-3 Deep Sand - Warm season plant community .

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

**State 2
Shinnery Oak Dominated**

**Community 2.1
Shinnery Oak Dominated**



Shinnery Oak Dominated: This state is dominated by shinnery oak with subdominants of sand sage or mesquite. Bare ground is a significant component in this state as well. Shinnery oak is characterized by dense stands in sandy soils; however, as clay percentage increases, shinnery oak decreases. Shinnery oak abundance and distribution increase with disturbances, such as excessive grazing and fire, due to an aggressive rhizome system. As shinnery oak abundance increases, an associated increase of mesquite, sand sage, and soapweed yucca also occurs. Shinnery oak's extensive root system allows the oak to competitively exclude grasses and forbs. Sand sage, however, stabilizes light sandy soils from wind erosion and can co-exist with herbaceous species by protecting them in heavily grazed conditions (Davis and Bonham 1979). Shinnery oak has been found primarily in very deep, excessively drained, and rapidly permeable soils. Shinnery oak is associated with landforms which are gently undulating to rolling uplands, very gently sloping to moderately steep slopes, and upland plains, alluvial fans and valley sideslopes. Shinnery oak and sand sage can be controlled with herbicide if applied in the spring with a subsequent rest from grazing (Herbel et al. 1979, Pettit 1986). In addition, repetitive seasons of goat browsing can also reduce shinnery oak abundance. Patches should be maintained during brush control, however, to prevent erosion and to provide wildlife cover and forage. Further, as shinnery oak and other shrubs increase, bare patches and erosion will increase due to a lack of herbaceous ground cover.

Diagnosis: Shinnery oak dominated with subdominant sand sage, honey mesquite, and soapweed yucca with increasing frequency and size of bare patches.

Transition to Shinnery oak dominated state (1a): The historic plant community begins to shift toward the shinnery oak dominated state as drivers such as climate change, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by an increase of shrub species abundance and bare patch expansion.

Key indicators of approach to transition:

- Loss of grass and forb cover
- Surface soil erosion
- Bare patch expansion
- Increased shrub species abundance and composition

Transition to Historic Plant Community (1b): The shinnery oak dominated state may transition back toward the historic plant community as new drivers are introduced such as prescribed grazing, brush control, and discontinued drought conditions.

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass/Grasslike					
1	Warm Season			450–585	
	spike dropseed	SPCO4	<i>Sporobolus contractus</i>	450–585	–
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	450–585	–
	mesa dropseed	SPFL2	<i>Sporobolus flexuosus</i>	450–585	–
	giant dropseed	SPGI	<i>Sporobolus giganteus</i>	450–585	–
2	Warm Season			65–104	
	sand bluestem	ANHA	<i>Andropogon hallii</i>	65–104	–
	little bluestem	SCSC	<i>Schizachyrium scoparium</i>	65–104	–
3	Warm Season			39–91	
	threeawn	ARIST	<i>Aristida</i>	39–91	–
4	Warm Season			13–39	
	thin paspalum	PASE5	<i>Paspalum setaceum</i>	13–39	–
5	Warm Season			13–39	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	13–39	–
6	Warm Season			13–39	
	mat sandbur	CELO3	<i>Cenchrus longispinus</i>	13–39	–
7	Warm Season			13–39	
	Havard's panicgrass	PAHA2	<i>Panicum havardii</i>	13–39	–
8	Warm Season			13–65	
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	13–65	–
9	Other Annual Grasses			13–65	
	Grass, annual	2GA	<i>Grass, annual</i>	13–65	–
Shrub/Vine					
10	Shrub			65–130	
	Havard oak	QUHA3	<i>Quercus havardii</i>	65–130	–
11	Shrub			13–39	

	sand sagebrush	ARFI2	<i>Artemisia filifolia</i>	13–39	–
12	Shrub			65–130	
	yucca	YUCCA	<i>Yucca</i>	65–130	–
13	Shrub			13–39	
	rabbitbrush	CHRY9	<i>Chrysothamnus</i>	13–39	–
14	Other Shrubs			13–39	
	Shrub (>.5m)	2SHRUB	<i>Shrub (>.5m)</i>	13–39	–
Forb					
15	Forb			39–91	
	croton	CROTO	<i>Croton</i>	39–91	–
	Indian blanket	GAPU	<i>Gaillardia pulchella</i>	39–91	–
16	Forb			39–91	
	aster	ASTER	<i>Aster</i>	39–91	–
	whitest evening primrose	OEAL	<i>Oenothera albicaulis</i>	39–91	–
	beardtongue	PENST	<i>Penstemon</i>	39–91	–
17	Forb			39–91	
	touristplant	DIWI2	<i>Dimorphocarpa wislizeni</i>	39–91	–
	buckwheat	ERIOG	<i>Eriogonum</i>	39–91	–
	sunflower	HELIA3	<i>Helianthus</i>	39–91	–
	spiny false fiddleleaf	HYSP	<i>Hydrolea spinosa</i>	39–91	–
	threadleaf ragwort	SEFLF	<i>Senecio flaccidus var. flaccidus</i>	39–91	–
18	Other Forbs			13–65	
	Forb (herbaceous, not grass nor grass-like)	2FORB	<i>Forb (herbaceous, not grass nor grass-like)</i>	13–65	–

Animal community

This site provides habitat which supports a resident animal population characterized by pronghorn, antelope, black-tailed jackrabbit, spotted ground squirrel, Ord's kangaroo rat, northern grasshopper mouse, southern plains woodrat, badger, meadowlark, roadrunner, white-necked raven, cactus wren, lesser prairie chicken, morning dove, scaled quail, Harris hawk, side blotched lizard, marbled whiptail, Texas horned lizard, western diamondback rattlesnake and ornate box turtle. In the area called Mescalero Sands, there are white-tailed and mule deer.

Hydrological functions

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

Hydrologic Interpretations
Soil Series Hydrologic Group
Anthony B
Bluepoint A
Kermit A
Aguena A
Likes A
Pintura A

Recreational uses

This site offers limited recreation potential for hiking, horseback riding, nature observation and photography; game bird, predator, antelope, and deer hunting.

Wood products

This site has no potential for wood products.

Other products

This site is suitable for grazing by all kinds and classes of livestock during all seasons of the year. Shinnery oak is toxic in the late bud or early leaf stage. Shinnery oak will increase, as will sand sagebrush following drought. Changes in the fire return interval have also favored an increase in shrub cover. The dropseeds and bluestem will decrease. This site responds very well to brush management and deferment. This site is well suited to a grazing system that rotates the season of use. Nesting habitat for lesser prairie chicken can be improved by providing residual cover that is at least 14 inches high.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM

100 - 76 2.0 – 3.8

75 – 51 3.0 – 6.0

50 – 26 5.0 – 10.0

25 – 0 10.1 +

Inventory data references

Other References:

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

Other references

Literature Cited

Davis, Joseph H., III and Bonham, Charles D. 1979. Interference of sand sagebrush canopy with needleandthread. *Journal of Range Management* 32(5):384-386.

Herbel, C. H, Steger, R, Gould, W. L. 1974. Managing semidesert ranges of the Southwest. Circular 456. Las Cruces, NM: New Mexico State University, Cooperative Extension Service. 48 p.

Pettit, Russell D. 1986. Sand shinnery oak: control and management. Management Note 8. Lubbock, TX: Texas Tech University, College of Agricultural Sciences, Department of Range and Wildlife Management. 5 p.

Sosebee, Ronald E. 1983. Physiological, phenological, and environmental considerations in brush and weed control. In: McDaniel, Kirk C., ed. *Proceedings--brush management symposium; 1983 February 16; Albuquerque, NM.* Denver, CO: Society for Range Management: 27-43.

Young, Vernon A., Anderwald, Frank R., McCully, Wayne G. 1948. Brush problems on Texas ranges. *Miscellaneous Publication 21.* College Station, TX: Texas Agricultural Experiment Station. 19 p.

Contributors

Don Sylvester
Quinn Hodgson

Rangeland health reference sheet

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

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

Indicators

1. **Number and extent of rills:**

2. **Presence of water flow patterns:**

3. **Number and height of erosional pedestals or terracettes:**

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

5. **Number of gullies and erosion associated with gullies:**

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

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

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

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

10. **Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:**

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

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

Dominant:

Sub-dominant:

Other:

Additional:

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

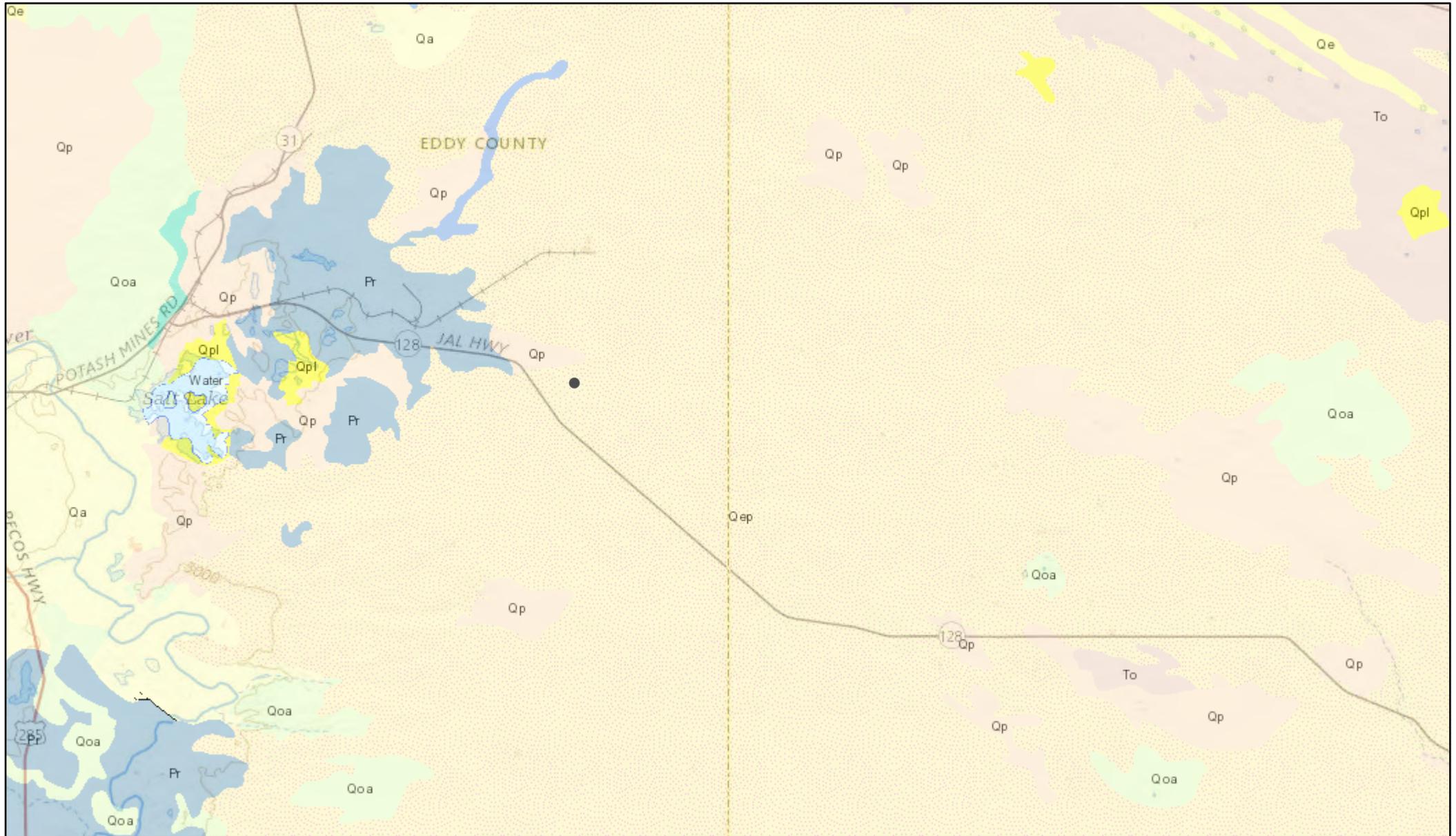
14. **Average percent litter cover (%) and depth (in):**

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

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

17. **Perennial plant reproductive capability:**

NPG 8 Fed 6 Geology



5/10/2021, 2:15:02 PM

Faults
 ——— Fault, Exposed
 - - - - - Fault, Intermittent
 ······ Fault, Concealed
 ~~~~~ Shere Zone

1:288,895  
 0 2 4 8 mi  
 0 3.25 6.5 13 km  
 NMBGMR, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S.

## **APPENDIX C – Daily Field Reports**



# Daily Site Visit Report

|                         |                          |                  |                   |
|-------------------------|--------------------------|------------------|-------------------|
| Client:                 | Devon Energy Corporation | Inspection Date: | 12/7/2022         |
| Site Location Name:     | North Pure Gold 8 Fed #6 | Report Run Date: | 12/8/2022 1:20 AM |
| Client Contact Name:    | Wes Matthews             | API #:           | 30-015-27618      |
| Client Contact Phone #: | (575) 748-0176           |                  |                   |
| Unique Project ID       |                          | Project Owner:   |                   |
| Project Reference #     |                          | Project Manager: |                   |

### Summary of Times

|                 |                   |
|-----------------|-------------------|
| Arrived at Site | 12/7/2022 9:35 AM |
| Departed Site   | 12/7/2022 4:45 PM |

### Field Notes

- 10:55** Completed JSA on arrival. On site to improve horizontal delineation of east release (around wellhead).
- 10:54** Mapped proposed borehole locations for horizontal delineation in Arc Collector. Swept proposed borehole locations with magnetic locator prior to ground disturbance.
- 15:58** Advanced boreholes BH22-31, BH22-32, BH22-33, BH22-34, and BH22-35 west, north, northeast, east, and south of wellhead, respectively. Collected samples at 0 and 2 feet bgs.
- 16:00** Field screening results for samples from BH22-32 exceeded NMOCD strictest criteria for chloride. Advanced BH22-36 north of BH22-32
- 16:01** TPH not tested in field due to supply shortage.
- 16:02** Horizontal delineation samples will be submitted to laboratory for analyses.

### Next Steps & Recommendations

- 1** Submit samples to laboratory for analyses.



# Daily Site Visit Report

## Site Photos

Viewing Direction: North



Descriptive Photo - 2  
Viewing Direction: North  
Desc: South of artificial lift facing north.  
Created: 12/7/2022 10:47:28 AM  
Lat:32.517924, Long:-103.798121

South of artificial lift facing north.

Viewing Direction: South



Descriptive Photo - 10  
Viewing Direction: South  
Desc: North of wellhead facing south. Advanced borehole BH22-36 north of BH22-32 for horizontal delineation.  
Created: 12/7/2022 1:05:05 PM  
Lat:32.517924, Long:-103.798121

North of wellhead facing south. Advanced borehole BH22-36 north of BH22-32 for horizontal delineation.

Viewing Direction: North



Descriptive Photo - 8  
Viewing Direction: North  
Desc: South of wellhead facing north.  
Created: 12/7/2022 10:01:21 AM  
Lat:32.518968, Long:-103.798121

South of wellhead facing north.

Viewing Direction: West

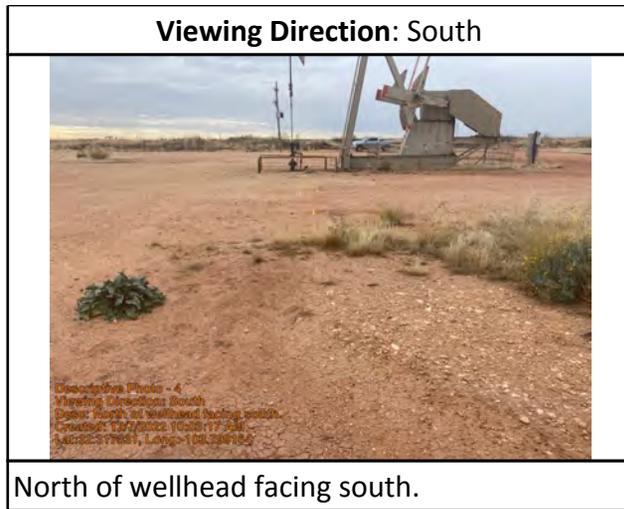


Descriptive Photo - 9  
Viewing Direction: West  
Desc: East of wellhead facing west.  
Created: 12/7/2022 10:02:14 AM  
Lat:32.517174, Long:-103.798061

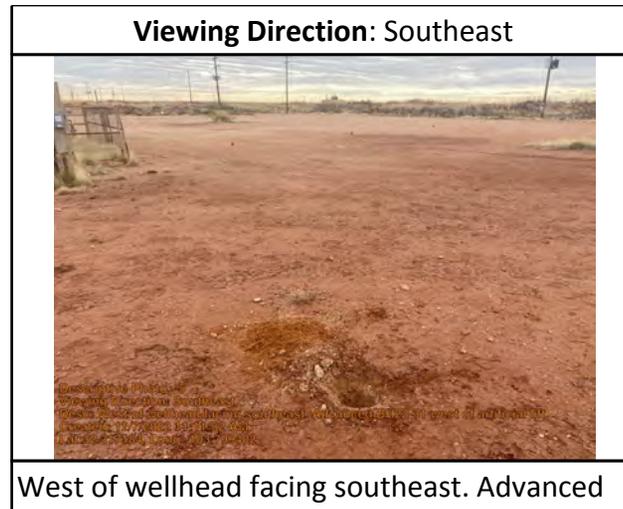
East of wellhead facing west.



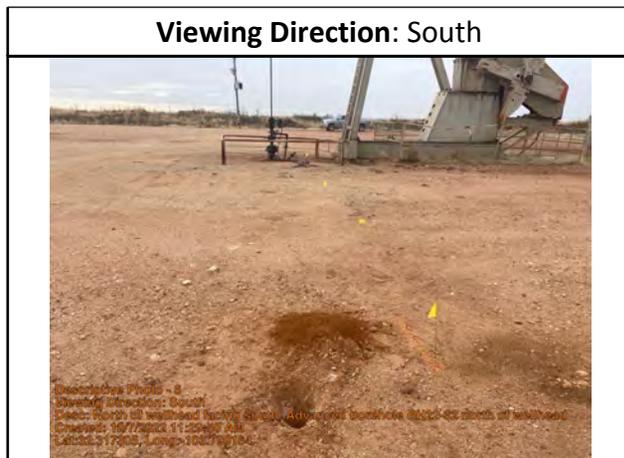
# Daily Site Visit Report



North of wellhead facing south.



West of wellhead facing southeast. Advanced BH22-31 west of artificial lift do horizontal delineation.



North of wellhead facing south. Advanced borehole BH22-32 north of wellhead to attempt horizontal delineation.



Northeast of wellhead facing southwest. Advanced borehole BH22-33 east-northeast of BH22-32 for horizontal delineation.



# Daily Site Visit Report

**Viewing Direction: West**



Viewing Direction: West  
Photo: East of wellhead facing west. Advanced borehole BH22-34 south of BH22-33 to horizontal delineation.  
Created: 10/7/2022 10:23:00 PM  
Lat: 31.7176, Long: -103.799259

East of wellhead facing west. Advanced borehole BH22-34 south of BH22-33 for horizontal delineation.

**Viewing Direction: North**



Viewing Direction: North  
Photo: South edge north of pad facing north. Advanced borehole BH22-35 southwest of BH22-34 for horizontal delineation.  
Created: 10/7/2022 10:33:00 PM  
Lat: 31.71829, Long: -103.799746

South edge north of pad facing north. Advanced borehole BH22-35 southwest of BH22-34 for horizontal delineation.

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line.

Signature



# Daily Site Visit Report

|                         |                          |                  |                  |
|-------------------------|--------------------------|------------------|------------------|
| Client:                 | Devon Energy Corporation | Inspection Date: | 1/6/2023         |
| Site Location Name:     | North Pure Gold 8 Fed #6 | Report Run Date: | 1/7/2023 1:11 AM |
| Client Contact Name:    | Wes Matthews             | API #:           | 30-015-27618     |
| Client Contact Phone #: | (575) 748-0176           |                  |                  |
| Unique Project ID       |                          | Project Owner:   |                  |
| Project Reference #     |                          | Project Manager: |                  |

## Summary of Times

|                 |                  |
|-----------------|------------------|
| Arrived at Site | 1/6/2023 6:23 AM |
| Departed Site   | 1/6/2023 4:34 PM |

## Field Notes

- 8:18** Completed JSA on arrival. On site to continue excavation to 4 feet bgs and start surface scrape of west and south ends of release.
- 8:19** Conducted safety meeting with Halo crew and planned work priorities.
- 8:20** Marked and mapped areas west and south of primary excavation to receive surface scrape.
- 10:24** Halo personnel used hand tools to expose approximately 20 feet of the steel conduit connecting the power pole to the pump jack. Approximately 6 inches of space under the conduit was open when it collapsed under its own weight. The conduit was heavily corroded. The Halo supervisor was informed, and he arranged to have an electrician repair the damage.
- 15:46** Collected samples and guided excavation based on field screening results. Completed excavation to 4 feet bgs with wall excavation sample results below NMOCD strictest criteria. Base sample results at 4 feet bgs were below NMOCD criteria for depth to groundwater between 50 and 100 feet bgs.
- 15:47** Scraped the surface immediately southwest of the pump jack to 1 foot bgs. Base and wall samples of west scrape were below NMOCD strictest criteria.
- 15:57** TJ Robertson, with Buckhorn, arranged for Westcom to disconnect the power from the pump jack and confirm the cable was de-energized. The pump jack is effectively locked out and tagged out until the electrical line is replaced. With permission, Halo removed the damaged conduit and cable. The portion of the excavation formerly occupied by the cable was completed and field screening results were below NMOCD requirements.

## Daily Site Visit Report



**15:59** The portion of the caliche to be scraped south of the excavation will be delayed until the spoil pile has been hauled out, as it will interfere with truck traffic.

### Next Steps & Recommendations

- 1 Haul current material pile away and complete caliche scrape to 1 foot bgs south of 4 foot excavation.
- 2 Schedule confirmation sampling.



# Daily Site Visit Report

## Site Photos

**Viewing Direction: West**



South of artificial lift facing west. Exposed conduit collapsed under its own weight.

**Viewing Direction: North**



Southeast edge of excavation facing north. Excavation to 4 feet bgs completed.

**Viewing Direction: Northwest**



Southeast edge of excavation facing northwest. Excavation to 4 feet bgs completed.

**Viewing Direction: West**



Southeast edge of excavation facing west. Excavation to 4 feet bgs completed.



# Daily Site Visit Report



Southwest edge of excavation facing northeast. Excavation to 4 feet bgs completed.



Southwest edge of excavation facing east. Excavation to 4 feet bgs completed.



Southwest edge of excavation facing north. Excavation to 4 feet bgs completed.



Southwest of pump jack facing east. Excavation to 4 feet bgs completed.



# Daily Site Visit Report

**Viewing Direction: East**

Southwest of pump jack facing east. Scrape to 1 foot bgs on west side completed.

**Viewing Direction: North**

Descriptive Photo - 2  
Viewing Direction - North  
Desc - North of pump jack facing east. Excavation to 4 feet bgs completed.  
Created: 1/7/2023 1:06:27 PM  
Lat:32.317210, Long:-103.799270

North of pump jack facing east. Excavation to 4 feet bgs completed.

**Viewing Direction: North**

Descriptive Photo - 3  
Viewing Direction - North  
Desc - North of pump jack facing north. Excavation to 4 feet bgs completed.  
Created: 1/7/2023 1:07:27 PM  
Lat:32.317210, Long:-103.799270

North of pump jack facing north. Excavation to 4 feet bgs completed.

**Viewing Direction: South**

Descriptive Photo - 4  
Viewing Direction - South  
Desc - North of pump jack facing south. Excavation to 4 feet bgs completed.  
Created: 1/7/2023 1:08:04 PM  
Lat:32.317210, Long:-103.799270

North of pump jack facing south. Excavation to 4 feet bgs completed.



# Daily Site Visit Report

**Viewing Direction: South**



Inspection Photo - 7  
Viewing Direction: South  
Date: North of pump jack facing south. Excavation to 4 feet bgs completed.  
Created: 3/8/2024 1:11 PM  
Lat: 36.877254, Long: 103.799174

North of pump jack facing south. Excavation to 4 feet bgs completed.

**Viewing Direction: East**



Inspection Photo - 8  
Viewing Direction: East  
Date: North of pump jack facing east. Excavation to 4 feet bgs completed.  
Created: 3/8/2024 1:11 PM  
Lat: 36.877254, Long: 103.799174

North of pump jack facing east. Excavation to 4 feet bgs completed.

**Viewing Direction: West**



Inspection Photo - 7  
Viewing Direction: West  
Date: East edge of excavation facing west. Excavation to 4 feet bgs completed.  
Created: 3/8/2024 1:11 PM  
Lat: 36.877254, Long: 103.799174

Northeast edge of excavation facing west. Excavation to 4 feet bgs completed.

**Viewing Direction: Southwest**



Inspection Photo - 8  
Viewing Direction: Southwest  
Date: Northeast edge of excavation facing southwest. Excavation to 4 feet bgs completed.  
Created: 3/8/2024 1:11 PM  
Lat: 36.877254, Long: 103.799174

Northeast edge of excavation facing southwest. Excavation to 4 feet bgs completed.



# Daily Site Visit Report

|                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Viewing Direction: South</b>                                                                                                                                                                                                                                    |
|  <p><small>Description Photo: 13-134<br/>Viewing Direction: South<br/>Date: 3/19/2024 1:07:23 PM<br/>Excavation to 4 feet bgs completed<br/>Location: 13-134-100-0000</small></p> |
| Northeast edge of excavation facing south.<br>Excavation to 4 feet bgs completed.                                                                                                                                                                                  |

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line.

Signature



# Daily Site Visit Report

|                         |                          |                  |                   |
|-------------------------|--------------------------|------------------|-------------------|
| Client:                 | Devon Energy Corporation | Inspection Date: | 1/20/2023         |
| Site Location Name:     | North Pure Gold 8 Fed #6 | Report Run Date: | 1/21/2023 1:22 AM |
| Client Contact Name:    | Wes Matthews             | API #:           | 30-015-27618      |
| Client Contact Phone #: | (575) 748-0176           |                  |                   |
| Unique Project ID       |                          | Project Owner:   |                   |
| Project Reference #     |                          | Project Manager: |                   |

## Summary of Times

|                 |                   |
|-----------------|-------------------|
| Arrived at Site | 1/20/2023 6:48 AM |
| Departed Site   | 1/20/2023 4:33 PM |

## Field Notes

- 7:00** Completed JSA on arrival. On site to complete confirmation sampling of excavation base.
- 7:07** Swept sampling locations with magnetic locator prior to ground disturbance.
- 10:58** Collected remaining confirmation samples from base of 4-foot bgs excavation.
- 11:16** Field screening results for confirmation samples were below NMOCD requirements for depth to groundwater between 51 and 100 feet bgs.
- 11:17** Completed collection of confirmation samples from excavation and surface scrapes around wellhead, pending laboratory results.
- 16:32** Used hand auger to collect confirmation samples from historical excavation west of pad at depth. Confirmation samples were 5-point composites from 5 separate boreholes over 200 square foot areas.

## Next Steps & Recommendations

1



# Daily Site Visit Report

## Site Photos

Viewing Direction: North



Descriptive Photo - 9  
Viewing Direction: North  
Date: 12/20/23 10:48:36 AM  
Lat: 32.917294, Long: -103.799972

South of pump jack facing north.

Viewing Direction: Southeast



Descriptive Photo - 10  
Viewing Direction: Southeast  
Date: North of pump jack facing southeast  
Created: 12/20/23 10:48:36 AM  
Lat: 32.917294, Long: -103.799972

North of pump jack facing southeast.

Viewing Direction: East



Descriptive Photo - 11  
Viewing Direction: East  
Date: Northwest of pump jack facing east  
Created: 12/20/23 10:48:36 AM  
Lat: 32.917294, Long: -103.799972

Northwest of pump jack facing east-northeast.

Viewing Direction: West



Descriptive Photo - 12  
Viewing Direction: West  
Date: Northeast corner of 4-foot excavation facing west-southwest  
Created: 12/20/23 10:50:17 AM  
Lat: 32.917294, Long: -103.799972

Northeast corner of 4-foot excavation facing west-southwest.



# Daily Site Visit Report

Viewing Direction: Southwest



Descriptive Photo - 13  
Viewing Direction: Southwest  
Desc: Northeast corner of 4-foot excavation facing west.  
Created: 1/20/2023 10:50:24 AM  
Lat: 32.177515, Long: -103.798949

Northeast corner of 4-foot excavation facing west.

Viewing Direction: South



Descriptive Photo - 14  
Viewing Direction: South  
Desc: Northeast corner of 4-foot excavation facing south.  
Created: 1/20/2023 10:51:17 AM  
Lat: 32.177523, Long: -103.798949

Northeast corner of 4-foot excavation facing south.

Viewing Direction: North



Descriptive Photo - 15  
Viewing Direction: North  
Desc: Southeast corner of 4-foot excavation facing north.  
Created: 1/20/2023 10:52:16 AM  
Lat: 32.177511, Long: -103.798970

Southeast corner of 4-foot excavation facing north.

Viewing Direction: Northwest



Descriptive Photo - 16  
Viewing Direction: Northwest  
Desc: Southeast corner of 4-foot excavation facing northwest.  
Created: 1/20/2023 10:53:42 AM  
Lat: 32.177506, Long: -103.798949

Southeast corner of 4-foot excavation facing northwest.



# Daily Site Visit Report

Viewing Direction: West



Descriptive Photo - 17  
Viewing Direction: West  
Desc: Southeast corner of 4-foot excavation facing west.  
Created: 1/20/2023 10:33:07 AM  
Lat:32.217127, Long:-103.286651

Southeast corner of 4-foot excavation facing west.

Viewing Direction: Southwest



Descriptive Photo  
Viewing Direction: Southwest  
Desc: Southeast corner of 4-foot excavation facing southwest.  
Created: 1/20/2023 10:33:41 AM  
Lat:32.217127, Long:-103.286651

Southeast corner of 4-foot excavation facing southwest.

Viewing Direction: North



Descriptive Photo - 18  
Viewing Direction: North  
Desc: West of pad facing north over historical excavation.  
Created: 1/20/2023 10:40:13 AM  
Lat:32.216914, Long:-103.286197

West of pad facing north over historical excavation.

Viewing Direction: North



Descriptive Photo - 8  
Viewing Direction: North  
Desc: South of south surface scrape facing north.  
Created: 1/20/2023 10:40:47 AM  
Lat:32.216914, Long:-103.286197

South of south surface scrape facing north.



# Daily Site Visit Report

**Viewing Direction: South**



Descriptive Photo - 3  
Viewing Direction: South  
Date: West of pad facing south over historical excavation  
Created: 1/23/2023 2:10:50 PM  
Latitude: 33.17200 Longitude: -103.23880

West of pad facing south over historical excavation.

**Viewing Direction: Northeast**



Descriptive Photo - 5  
Viewing Direction: Northeast  
Date: Southwest corner of 4-foot excavation northeast  
Created: 1/23/2023 10:42:16 AM  
Latitude: 33.17200 Longitude: -103.23880

Southwest corner of 4-foot excavation facing northeast.

**Viewing Direction: Northwest**



Descriptive Photo - 4  
Viewing Direction: Northwest  
Date: Southwest corner of 4-foot excavation facing northwest  
Created: 1/23/2023 10:43:07 AM  
Latitude: 33.17200 Longitude: -103.23880

Southwest corner of 4-foot excavation facing northwest.

**Viewing Direction: East**

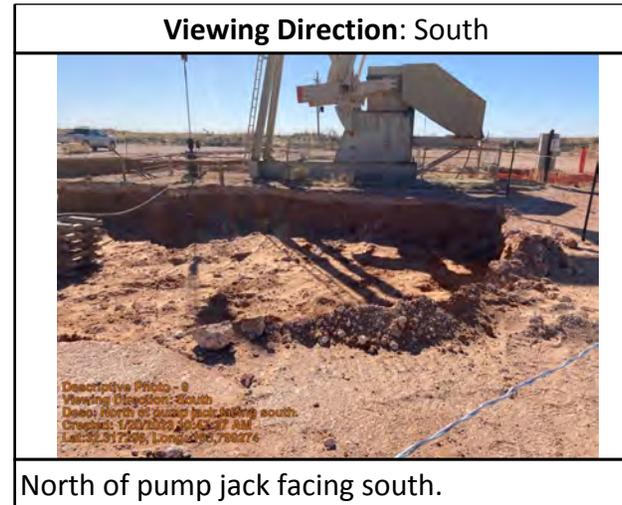
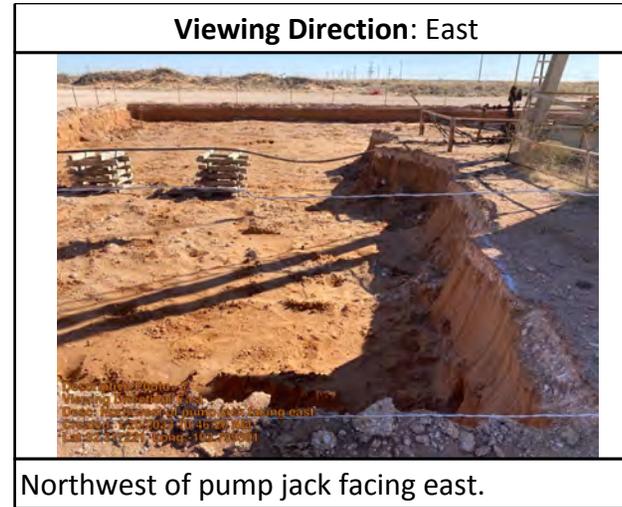


Descriptive Photo - 2  
Viewing Direction: East  
Date: West-southwest of pump jack facing east  
Created: 1/23/2023 10:44:14 AM  
Latitude: 33.17200 Longitude: -103.23880

West-southwest of pump jack facing east.



# Daily Site Visit Report



# Daily Site Visit Report



## Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

Signature

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



# Daily Site Visit Report

|                         |                          |                  |                  |
|-------------------------|--------------------------|------------------|------------------|
| Client:                 | Devon Energy Corporation | Inspection Date: | 3/7/2023         |
| Site Location Name:     | North Pure Gold 8 Fed #6 | Report Run Date: | 3/7/2023 6:30 PM |
| Client Contact Name:    | Wes Matthews             | API #:           | 30-015-27618     |
| Client Contact Phone #: | (575) 748-0176           |                  |                  |
| Unique Project ID       |                          | Project Owner:   |                  |
| Project Reference #     |                          | Project Manager: |                  |

## Summary of Times

|                 |                   |
|-----------------|-------------------|
| Arrived at Site | 3/7/2023 8:20 AM  |
| Departed Site   | 3/7/2023 10:00 AM |

## Field Notes

- 9:06** Arrived on site and filled out safety documents. Met with Vision drillers and discussed work plan for the day.
- 9:09** Confirmed their determined drilling location matched coordinates and drilling commenced at approximately 08:55.
- 9:41** Completed drilling at approximately 09:35.
- 9:57** Reading well, site at (32.317160, -103.798615), pipe 2 ft above ground and dry reading at 61 ft at 09:45. Collected GPS point and completed DRF 10:00.

## Next Steps & Recommendations

1



# Daily Site Visit Report

## Site Photos

Viewing Direction: Northeast



Descriptive Photo - 1  
Viewing Direction: Northeast  
Desc: Well site and well site  
Created: 3/7/2023 9:16:42 AM  
Lat:32.317047, Long:-103.788028

Drilling rig and well site

Viewing Direction: South



Descriptive Photo - 2  
Viewing Direction: South  
Desc: Actual well  
Created: 3/7/2023 9:16:42 AM  
Lat:32.317047, Long:-103.788028

Actual well

Viewing Direction: Northeast



Descriptive Photo - 3  
Viewing Direction: Northeast  
Desc: Well at orange cone, perspective referencing photo.  
Created: 3/7/2023 9:58:17 AM  
Lat:32.318900, Long:-103.788842

Well at orange cone, perspective referencing photo.

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Stephanie McCartyM

**Signature:**

A handwritten signature in black ink, appearing to read 'Steph M', written over a thin horizontal line. The word 'Signature' is printed in small text below the line on the left side.



# Daily Site Visit Report

|                         |                          |                  |                   |
|-------------------------|--------------------------|------------------|-------------------|
| Client:                 | Devon Energy Corporation | Inspection Date: | 3/10/2023         |
| Site Location Name:     | North Pure Gold 8 Fed #6 | Report Run Date: | 3/10/2023 5:01 PM |
| Client Contact Name:    | Wes Matthews             | API #:           | 30-015-27618      |
| Client Contact Phone #: | (575) 748-0176           |                  |                   |
| Unique Project ID       |                          | Project Owner:   |                   |
| Project Reference #     |                          | Project Manager: |                   |

### Summary of Times

|                 |                    |
|-----------------|--------------------|
| Arrived at Site | 3/10/2023 7:55 AM  |
| Departed Site   | 3/10/2023 10:00 AM |

### Field Notes

**9:35** Arrived on site and completed safety documents- 08:20

Reviewed data from 72 hour prior well reading- 8:50

Collected Solinst model 122 Interface meter and field equipment for reading- 09:00

**9:39** Prepared equipment and documented for daily field report- 09:30.

**9:49** Well reading at 09:45 AM, 72 hours after drilling occurred, measured with Solinst model 122. Pipe height above ground is 1 foot and 4 inches. Well depth bottom reading at 60 ft and 6 inches with no water detected. (Total is 59 ft and 2 inches depth of dry well).

Coordinates of well location: (32.317160,-103.798615).

Well is 122 feet south east of pump jack at southeast corner of pad.

### Next Steps & Recommendations

1



# Daily Site Visit Report

## Site Photos

Viewing Direction: West



Site location of well

Viewing Direction: North



Well pipe and borehole with Interface meter

Viewing Direction: East



Well with Interface meter

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Stephanie McCartyM

**Signature:**

A handwritten signature in black ink, appearing to read 'Steph M', written over a thin horizontal line. Below the line, the word 'Signature' is printed in a small font.



# Daily Site Visit Report

|                         |                                 |                   |                                   |
|-------------------------|---------------------------------|-------------------|-----------------------------------|
| Client:                 | <u>Devon Energy Corporation</u> | Inspection Date:  | <u>2/4/2020</u>                   |
| Site Location Name:     | <u>North Pure Gold 8 Fed #6</u> | Report Run Date:  | <u>2/5/2020 2:39 AM</u>           |
| Project Owner:          | <u>Tom Bynum</u>                | File (Project) #: | <u>20E-00141</u>                  |
| Project Manager:        | <u>Natalie Gordon</u>           | API #:            | <u>30-015-27618</u>               |
| Client Contact Name:    | <u>Amanda Davis</u>             | Reference         | <u>Poly Flowline leak off pad</u> |
| Client Contact Phone #: | <u>(575) 748-0176</u>           |                   |                                   |

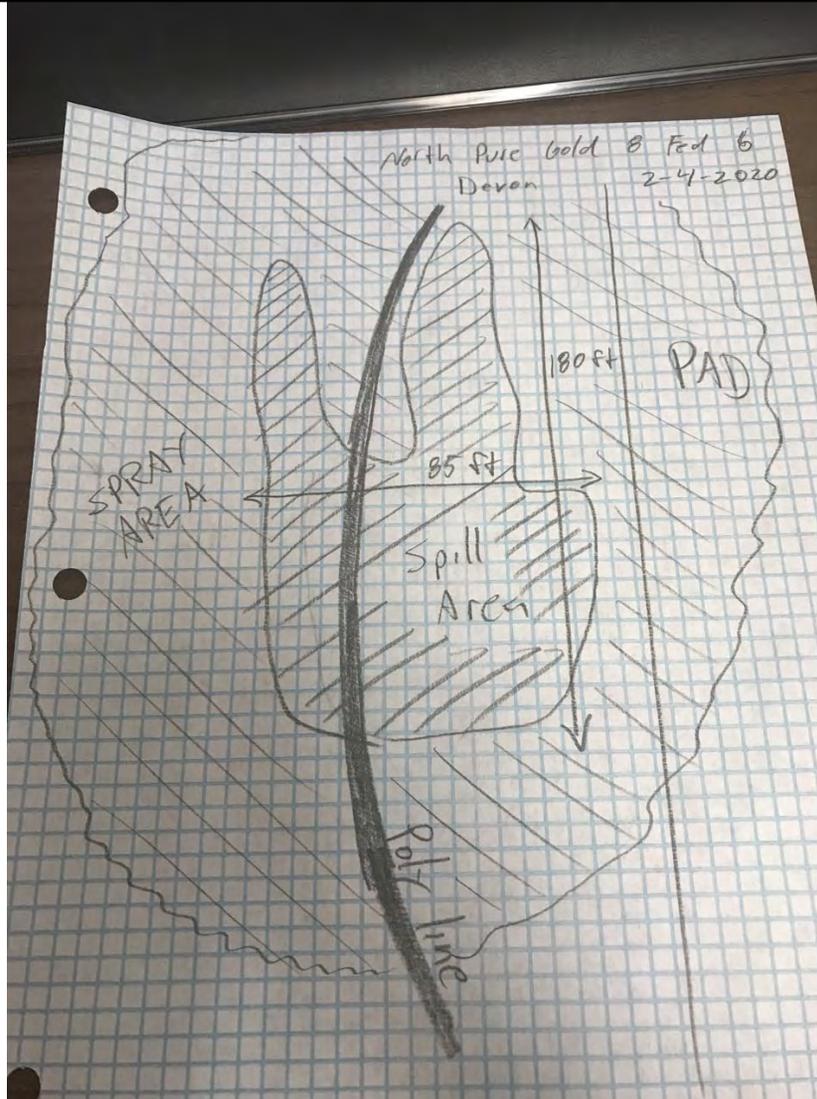
## Summary of Times

|                    |                         |
|--------------------|-------------------------|
| Left Office        | <u>2/4/2020 2:00 PM</u> |
| Arrived at Site    | <u>2/4/2020 3:35 PM</u> |
| Departed Site      | <u>2/4/2020 4:39 PM</u> |
| Returned to Office | <u>2/4/2020 6:00 PM</u> |

# Daily Site Visit Report



## Site Sketch



# Daily Site Visit Report



## Summary of Daily Operations

**15:36** Arrive on site.  
Complete safety paperwork.  
Document spill via DFR.  
Characterize spill horizontally.  
Complete DFR.  
Return to office.

## Next Steps & Recommendations

1



# Daily Site Visit Report

## Site Photos

Viewing Direction: South



Descriptive Photo  
Viewing Direction: South  
Desc: Standing fluid  
Created: 2/4/2020 4:02:58 PM  
Lat:32.317196, Long:-103.799897

Standing fluid

Viewing Direction: South



Descriptive Photo  
Viewing Direction: South  
Desc: Spill area  
Created: 2/4/2020 4:01:21 PM  
Lat:32.317193, Long:-103.799899

Spill area

Viewing Direction: West



Descriptive Photo  
Viewing Direction: West  
Desc: Spill area  
Created: 2/4/2020 4:07:04 PM  
Lat:32.316948, Long:-103.799453

Spill area

Viewing Direction: North



Descriptive Photo  
Viewing Direction: North  
Desc: Spill area  
Created: 2/4/2020 4:08:00 PM  
Lat:32.316908, Long:-103.799122

Spill area



# Daily Site Visit Report

**Viewing Direction: Northwest**

Date & Time: Tue Feb 4 16:08:33 MST 2020  
 Position: +032.3168° / -103.79962°  
 Altitude: 1013m  
 Datum: WGS-84  
 Azimuth/Bearing: 354° N54W 566mils (True)  
 Zoom: 1X

Descriptive Photo  
 Viewing Direction: Northwest  
 Date: 2/4/2020 4:08:33 PM  
 Lat: 32.317198, Long: -103.799444

Sprayed trees

**Viewing Direction: North**

Date & Time: Tue Feb 4 16:08:36 MST 2020  
 Position: +032.3168° / -103.79963°  
 Altitude: 1013m  
 Datum: WGS-84  
 Azimuth/Bearing: 341° N19W 6062mils (True)  
 Zoom: 1X

Descriptive Photo  
 Viewing Direction: North  
 Date: 2/4/2020 4:08:36 PM  
 Lat: 32.316932, Long: -104.23064

Spill area

**Viewing Direction: North**

Date & Time: Tue Feb 4 16:08:49 MST 2020  
 Position: +032.3169° / -103.79966°  
 Altitude: 1013m  
 Datum: WGS-84  
 Azimuth/Bearing: 345° N15W 4193mils (True)  
 Zoom: 1X

Descriptive Photo  
 Viewing Direction: North  
 Date: 2/4/2020 4:08:49 PM  
 Lat: 32.316916, Long: -104.230726

Spill area

**Viewing Direction: Northeast**

Date & Time: Tue Feb 4 16:08:52 MST 2020  
 Position: +032.3169° / -103.79966°  
 Altitude: 1013m  
 Datum: WGS-84  
 Azimuth/Bearing: 330° N30W 5867mils (True)  
 Zoom: 1X

Descriptive Photo  
 Viewing Direction: Northeast  
 Date: 2/4/2020 4:08:52 PM  
 Lat: 32.316916, Long: -104.230726

Spill area



# Daily Site Visit Report

**Viewing Direction: Northeast**

Date & Time: Tue Feb 4 16:09:07 MST 2020  
 Position: +032.31701° / -103.79975°  
 Altitude: 1014m  
 Datum: WGS-84  
 Azimuth/Bearing: 035° N09E 0622mils (True)  
 Zoom: 1X

Descriptive Photo  
 Viewing Direction: Northeast  
 Dist: Spill area  
 Created: 2/4/2020 6:32:18 PM  
 Lat:32.31701, Long:-104.236793

Spill area

**Viewing Direction: West**

Date & Time: Tue Feb 4 16:08:54 MST 2020  
 Position: +032.31695° / -103.79966°  
 Altitude: 1013m  
 Datum: WGS-84  
 Azimuth/Bearing: 301° N51W 5493mils (True)  
 Zoom: 1X

Descriptive Photo  
 Viewing Direction: West  
 Dist: Spill area  
 Created: 2/4/2020 6:31:38 PM  
 Lat:32.31695, Long:-104.236783

Spill area

**Viewing Direction: Northwest**

Date & Time: Tue Feb 4 16:09:07 MST 2020  
 Position: +032.31701° / -103.79975°  
 Altitude: 1014m  
 Datum: WGS-84  
 Azimuth/Bearing: 035° N09E 0622mils (True)  
 Zoom: 1X

Descriptive Photo  
 Viewing Direction: Northwest  
 Dist: Spill area  
 Created: 2/4/2020 6:32:18 PM  
 Lat:32.31701, Long:-104.236793

Spill area

**Viewing Direction: South**

Date & Time: Tue Feb 4 16:09:07 MST 2020  
 Position: +032.31701° / -103.79975°  
 Altitude: 1014m  
 Datum: WGS-84  
 Azimuth/Bearing: 035° N09E 0622mils (True)  
 Zoom: 1X

Descriptive Photo  
 Viewing Direction: South  
 Dist: Spill area  
 Created: 2/4/2020 6:43:30 PM  
 Lat:32.418315, Long:-104.236793

Spill area

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Austin Harris

**Signature:**

A handwritten signature in black ink, appearing to be 'AH', written over a horizontal line.

Signature



# Daily Site Visit Report

|                         |                                   |                  |                          |
|-------------------------|-----------------------------------|------------------|--------------------------|
| Client:                 | <u>Devon Energy Corporation</u>   | Inspection Date: | <u>2/2/2021</u>          |
| Site Location Name:     | <u>North Pure Gold 8 Fed #6</u>   | Report Run Date: | <u>2/2/2021 11:59 PM</u> |
| Client Contact Name:    | <u>Amanda Davis</u>               | API #:           | <u>30-015-27618</u>      |
| Client Contact Phone #: | <u>(575) 748-0176</u>             |                  |                          |
| Unique Project ID       | <u>-North Pure Gold 8 Fed #6</u>  | Project Owner:   | <u>Tom Bynum</u>         |
| Project Reference #     | <u>Poly Flowline leak off pad</u> | Project Manager: | <u>Natalie Gordon</u>    |

## Summary of Times

|                 |                         |
|-----------------|-------------------------|
| Arrived at Site | <u>2/2/2021 7:40 AM</u> |
| Departed Site   | <u>2/2/2021 3:20 PM</u> |

## Field Notes

- 7:42** Arrived on site  
Filled out safety paperwork  
Began DFR
- 15:17** Complete excavation tomorrow and prep for treatment

## Next Steps & Recommendations

- 1** Finished up excavation tomorrow



# Daily Site Visit Report

## Site Photos

Viewing Direction: South



Descriptive Photo - 1  
Viewing Direction: South  
Date: Before excavation  
Created: 2/2/2021 8:31:39 AM

Before excavation

Viewing Direction: South



Descriptive Photo - 11  
Viewing Direction: South  
Date: Stock pile after day 1 of excavation  
Created: 2/2/2021 8:37:42 AM

Stock pile after day 1 of excavation

Viewing Direction: Southwest



Descriptive Photo - 2  
Viewing Direction: Southwest  
Date: Before excavation  
Created: 2/2/2021 8:38:18 AM

Before excavation

Viewing Direction: Southwest

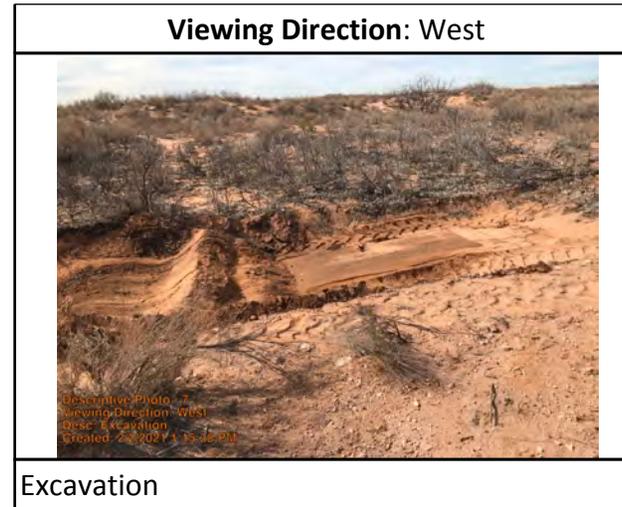
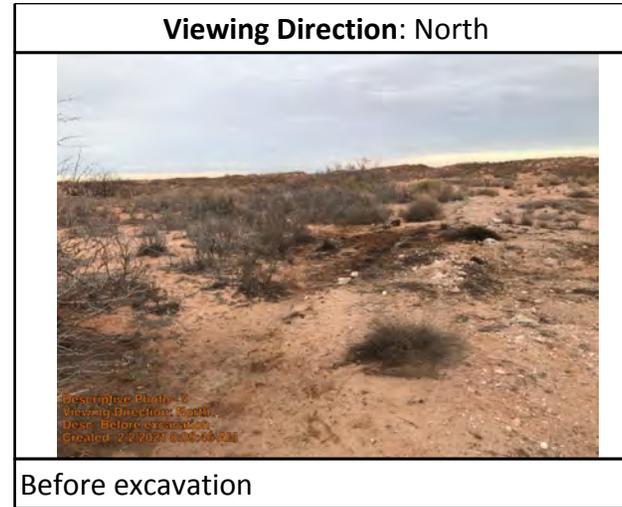
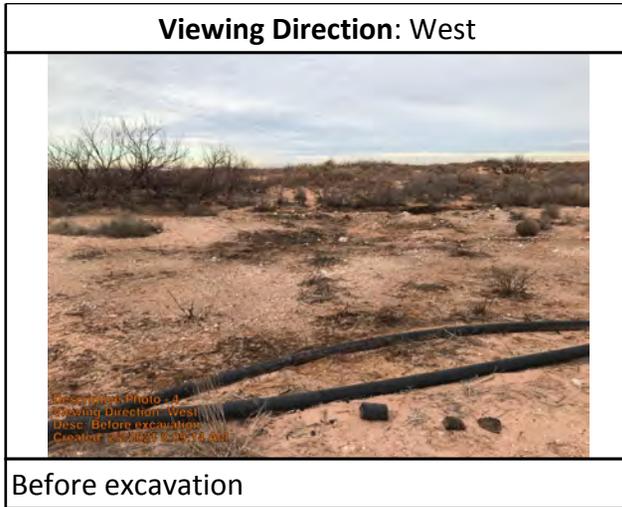


Descriptive Photo - 3  
Viewing Direction: Southwest  
Date: Before excavation  
Created: 2/2/2021 8:38:46 AM

Before excavation

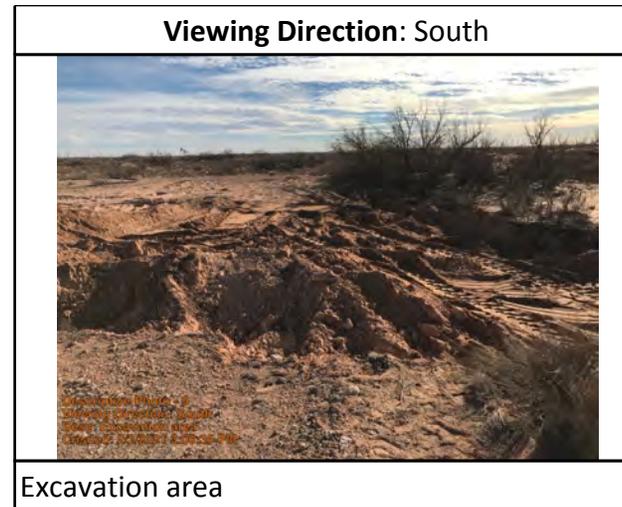
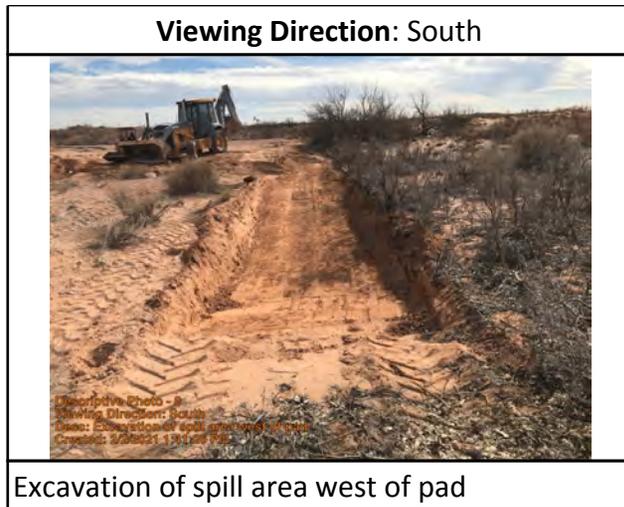


# Daily Site Visit Report





# Daily Site Visit Report



# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** John Ramirez

**Signature:**

  
Signature



# Daily Site Visit Report

|                         |                          |                  |                   |
|-------------------------|--------------------------|------------------|-------------------|
| Client:                 | Devon Energy Corporation | Inspection Date: | 2/3/2021          |
| Site Location Name:     | North Pure Gold 8 Fed #6 | Report Run Date: | 2/3/2021 10:28 PM |
| Client Contact Name:    | Amanda Davis             | API #:           | 30-015-27618      |
| Client Contact Phone #: | (575) 748-0176           |                  |                   |
| Unique Project ID       |                          | Project Owner:   |                   |
| Project Reference #     |                          | Project Manager: |                   |

### Summary of Times

|                 |                  |
|-----------------|------------------|
| Arrived at Site | 2/3/2021 7:20 AM |
| Departed Site   | 2/3/2021 3:30 PM |

### Field Notes

- 7:25** Arrived on site and filled out safety paperwork and began DFR
- 7:42** Begin to haul off some of the containment soil
- 14:20** Continued to excavate spill around to ensure all containment soil is removed and disposed of

### Next Steps & Recommendations

- 1 Continue minor excavation tomorrow, and begin micro blaze treatment of sprayed area



# Daily Site Visit Report

## Site Photos

Viewing Direction: South



Description: Photo - 4  
Viewing Direction: South  
Doc#: Stock pile, various sources, 20m, taken from  
Created: 2/3/2021 8:17:30 AM

Stock pile

Viewing Direction: South



Description: Photo - 5  
Viewing Direction: South  
Doc#: Continue excavation  
Created: 2/3/2021 8:17:30 AM

Continue excavation

Viewing Direction: West



Description: Photo - 6  
Viewing Direction: West  
Doc#: Excavation area  
Created: 2/3/2021 12:48:30 AM

Excavated area

Viewing Direction: South



Description: Photo - 6  
Viewing Direction: South  
Doc#: Excavation area  
Created: 2/3/2021 12:48:30 AM

Excavation area



# Daily Site Visit Report

Viewing Direction: Northwest



2/3/2021 10:28 PM UTC  
Viewing Direction: Northwest  
Date: 2/3/2021 10:28 PM  
Caption: 2/3/2021 10:28 PM

Excavated fenced area

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** John Ramirez

**Signature:**

  
Signature



# Daily Site Visit Report

|                         |                                   |                  |                          |
|-------------------------|-----------------------------------|------------------|--------------------------|
| Client:                 | <u>Devon Energy Corporation</u>   | Inspection Date: | <u>2/4/2021</u>          |
| Site Location Name:     | <u>North Pure Gold 8 Fed #6</u>   | Report Run Date: | <u>2/4/2021 11:18 PM</u> |
| Client Contact Name:    | <u>Amanda Davis</u>               | API #:           | <u>30-015-27618</u>      |
| Client Contact Phone #: | <u>(575) 748-0176</u>             |                  |                          |
| Unique Project ID       | <u>-North Pure Gold 8 Fed #6</u>  | Project Owner:   | <u>Tom Bynum</u>         |
| Project Reference #     | <u>Poly Flowline leak off pad</u> | Project Manager: | <u>Natalie Gordon</u>    |

### Summary of Times

|                 |                         |
|-----------------|-------------------------|
| Arrived at Site | <u>2/4/2021 7:25 AM</u> |
| Departed Site   | <u>2/4/2021 3:50 PM</u> |

### Field Notes

- 7:34** Arrived on site and filled out safety paperwork  
Began DFR
- 11:38** Excavating small area to get to clean soil

### Next Steps & Recommendations

- 1 Continue excavation tomorrow



# Daily Site Visit Report

## Site Photos

Viewing Direction: Northwest



Descriptive Photo - 1  
Viewing Direction: Northwest  
Desc: Excavated area  
Created: 2/4/2021 7:57:54 AM

Excavated area

Viewing Direction: South



Descriptive Photo - 10  
Viewing Direction: South  
Desc: Fenced area  
Created: 2/4/2021 1:59:20 PM

Fenced area

Viewing Direction: North



Descriptive Photo - 5  
Viewing Direction: North  
Desc: Excavated area  
Created: 2/4/2021 7:58:17 AM

Excavated area

Viewing Direction: West



Descriptive Photo - 4  
Viewing Direction: West  
Desc: More excavation  
Created: 2/4/2021 10:16:33 AM

More excavation



# Daily Site Visit Report





# Daily Site Visit Report

Viewing Direction: Southwest



Excavation of chasing the spill deep.

Viewing Direction: South



Stock pile

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** John Ramirez

**Signature:**

Signature 



# Daily Site Visit Report

|                         |                            |                  |                   |
|-------------------------|----------------------------|------------------|-------------------|
| Client:                 | Devon Energy Corporation   | Inspection Date: | 2/5/2021          |
| Site Location Name:     | North Pure Gold 8 Fed #6   | Report Run Date: | 2/5/2021 11:41 PM |
| Client Contact Name:    | Amanda Davis               | API #:           | 30-015-27618      |
| Client Contact Phone #: | (575) 748-0176             |                  |                   |
| Unique Project ID       | -North Pure Gold 8 Fed #6  | Project Owner:   | Tom Bynum         |
| Project Reference #     | Poly Flowline leak off pad | Project Manager: | Natalie Gordon    |

### Summary of Times

|                 |                  |
|-----------------|------------------|
| Arrived at Site | 2/5/2021 7:15 AM |
| Departed Site   | 2/5/2021 3:45 PM |

### Field Notes

- 7:19** Arrived on site  
Filled out safety paperwork
- 12:12** Start micro blaze treatment

### Next Steps & Recommendations

- 1** Submit samples to lab



# Daily Site Visit Report

## Site Photos

Viewing Direction: West



Describe Photo 1  
Viewing Direction: West  
Title: Excavation and spray area for microblaze treatment  
Created: 2/5/2021 11:41 AM

Excavation and spray area for microblaze treatment

Viewing Direction: Northwest



Describe Photo 2  
Viewing Direction: Northwest  
Title: Spray area  
Created: 2/5/2021 11:41 AM

Spray area

Viewing Direction: Northwest



Describe Photo 3  
Viewing Direction: Northwest  
Title: Excavation and spray area for microblaze treatment  
Created: 2/5/2021 11:41 AM

Excavation and spray area for microblaze treatment

Viewing Direction: North

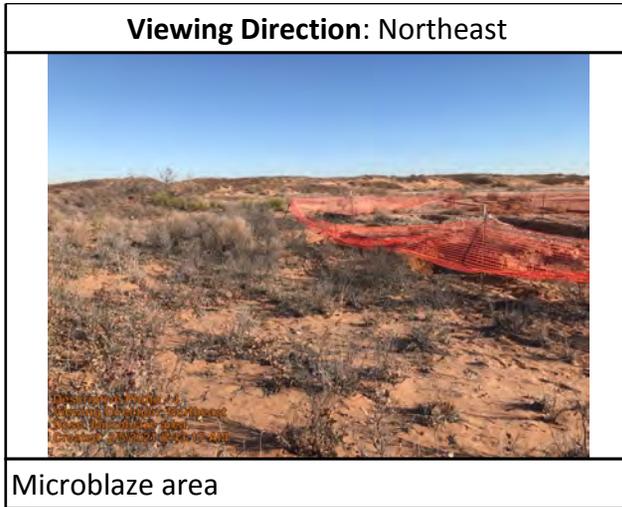


Describe Photo 4  
Viewing Direction: North  
Title: Microblaze area  
Created: 2/5/2021 11:41 AM

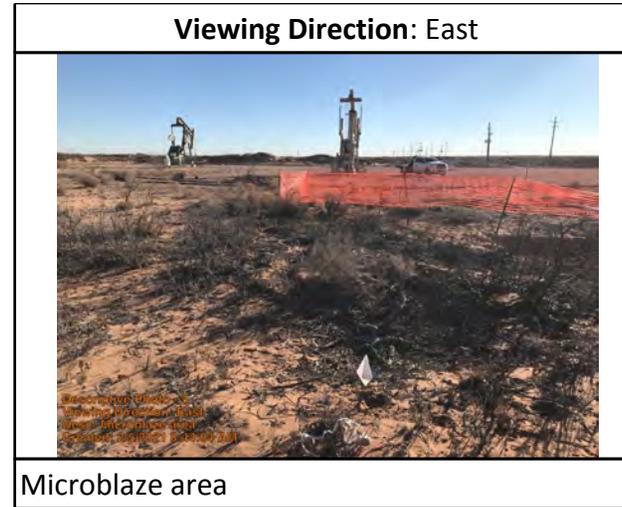
Microblaze area



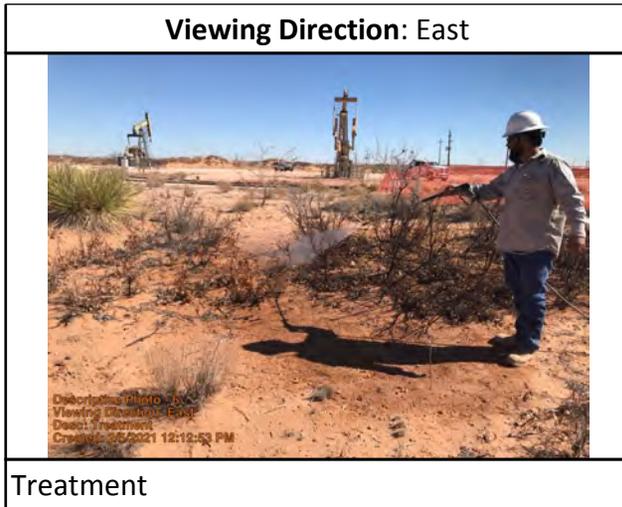
# Daily Site Visit Report



Microblaze area



Microblaze area



Treatment



Spray treatment



# Daily Site Visit Report

**Viewing Direction: Northwest**

Image ID: 25010\_0  
Viewing Direction: Northwest  
Area: Spray treatment  
Created: 2/5/2021 3:13:57 PM

**Spray treatment**

**Viewing Direction: South**

Image ID: 25010\_1  
Viewing Direction: South  
Area: Spray area  
Created: 2/5/2021 3:14:14 PM

**Spray area**

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** John Ramirez

**Signature:**

Signature 



# Daily Site Visit Report

|                         |                                   |                  |                          |
|-------------------------|-----------------------------------|------------------|--------------------------|
| Client:                 | <u>Devon Energy Corporation</u>   | Inspection Date: | <u>3/4/2021</u>          |
| Site Location Name:     | <u>North Pure Gold 8 Fed #6</u>   | Report Run Date: | <u>3/4/2021 11:40 PM</u> |
| Client Contact Name:    | <u>Amanda Davis</u>               | API #:           | <u>30-015-27618</u>      |
| Client Contact Phone #: | <u>(575) 748-0176</u>             |                  |                          |
| Unique Project ID       | <u>-North Pure Gold 8 Fed #6</u>  | Project Owner:   | <u>Tom Bynum</u>         |
| Project Reference #     | <u>Poly Flowline leak off pad</u> | Project Manager: | <u>Natalie Gordon</u>    |

### Summary of Times

|                 |                         |
|-----------------|-------------------------|
| Arrived at Site | <u>3/4/2021 8:23 AM</u> |
| Departed Site   | <u>3/4/2021 4:02 PM</u> |

### Field Notes

- 8:24** Arrived on site, began dfr and filled out safety paperwork
- 16:00** Began backfill at 9am

### Next Steps & Recommendations

1



# Daily Site Visit Report

## Site Photos

Viewing Direction: South



Photo: 3/4/2021 8:37:45 AM  
Viewing Direction: South  
Dist: Before Backfill  
Created: 3/4/2021 8:37:45 AM

Before backfill

Viewing Direction: South



Photo: 3/4/2021 8:37:45 AM  
Viewing Direction: South  
Dist: Before Backfill  
Created: 3/4/2021 8:37:45 AM

Before backfill

Viewing Direction: North



Photo: 3/4/2021 8:37:45 AM  
Viewing Direction: North  
Dist: Before Backfill  
Created: 3/4/2021 8:37:45 AM

Before backfill

Viewing Direction: South



Photo: 3/4/2021 8:37:45 AM  
Viewing Direction: South  
Dist: During Backfill  
Created: 3/4/2021 8:37:45 AM

During backfill



# Daily Site Visit Report



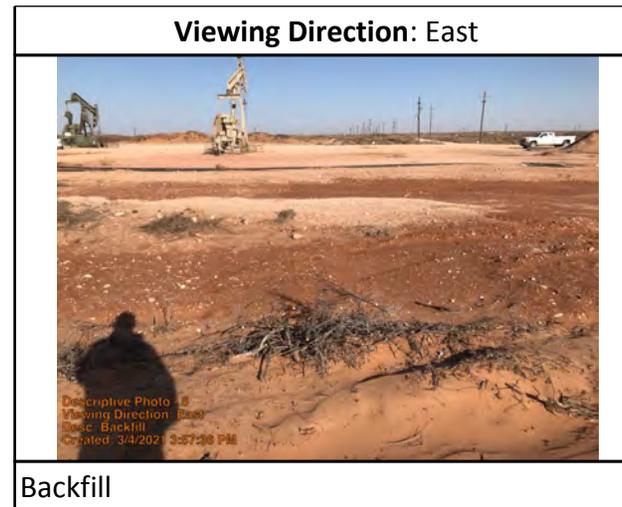
During backfill



Backfill



Backfill



Backfill

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** John Ramirez

**Signature:**

  
Signature



# Daily Site Visit Report

|                         |                          |                  |                   |
|-------------------------|--------------------------|------------------|-------------------|
| Client:                 | Devon Energy Corporation | Inspection Date: | 12/3/2022         |
| Site Location Name:     | North Pure Gold 8 Fed #6 | Report Run Date: | 12/4/2022 1:44 AM |
| Client Contact Name:    | Wes Matthews             | API #:           | 30-015-27618      |
| Client Contact Phone #: | (575) 748-0176           |                  |                   |
| Unique Project ID       |                          | Project Owner:   |                   |
| Project Reference #     |                          | Project Manager: |                   |

## Summary of Times

|                 |                   |
|-----------------|-------------------|
| Arrived at Site | 12/3/2022 7:06 AM |
| Departed Site   | 12/3/2022 4:47 PM |

## Field Notes

- 7:24** Completed JSA upon arrival. On site to collect soil samples and delineate overspray area around previous excavation.
- 9:52** Walked previous excavation and overspray areas and selected borehole locations within the overspray zone to determine status.
- 8:53** Swept proposed borehole locations with magnetic locator prior to ground disturbance.
- 10:25** Advanced boreholes BH22-11, BH22-12, and BH22-13 on west edge of pad and collected samples at 0, 2, and 4 feet bgs.
- 16:14** Advanced boreholes BH22-14, BH22-15, and BH22-16 west of pad and north of original excavation. Collected samples at 0, 2, and 4 feet bgs.
- 16:15** Advanced boreholes BH22-17 and BH22-18 west of pad and west of original excavation. Collected samples at 0, 2, and 4 feet bgs.
- 16:16** Advanced boreholes BH22-19 and BH22-20 west of pad and south of original excavation. Collected samples at 0, 2, and 4 feet bgs.
- 16:44** Field screening results for BH22-11 slightly exceeded NMOCD strictest criteria for chloride. Samples will be sent to laboratory for comparison.
- 16:45** Field screening results for samples from boreholes 12 through 20 were below NMOCD strictest criteria for chloride and TPH. Samples will be sent to the lab.
- 16:46** Filled in boreholes prior to leaving.

# Daily Site Visit Report



## Next Steps & Recommendations

- 1 Submit samples to laboratory for analyses.



# Daily Site Visit Report

## Site Photos

Viewing Direction: North



South of artificial lift facing north.

Viewing Direction: East



West of pad facing east. Advanced BH22-15 north of original excavation area and south-southwest of BH22-14.



# Daily Site Visit Report

**Viewing Direction: Southeast**

Descriptive Photo - 12  
Viewing Direction: Southeast  
Date: West of pad facing southeast. Advanced BH22-16 north of original excavation area and southwest of BH22-14.  
Created: 12/3/2022 11:24:31 AM  
Lat: 32.16843, Long: -103.799637

West of pad facing southeast. Advanced BH22-16 north of original excavation area and southwest of BH22-14.

**Viewing Direction: East**

Descriptive Photo - 13  
Viewing Direction: East  
Date: West of pad facing east. Advanced BH22-17 west of original excavation area and southwest of BH22-16.  
Created: 12/3/2022 11:24:31 AM  
Lat: 32.16843, Long: -103.799637

West of pad facing east. Advanced BH22-17 west of original excavation area and southwest of BH22-16.

**Viewing Direction: East**

Descriptive Photo - 14  
Viewing Direction: East  
Date: West of pad facing east. Advanced BH22-18 west of original excavation area and south of BH22-17.  
Created: 12/3/2022 11:10:31 AM  
Lat: 32.16843, Long: -103.799637

West of pad facing east. Advanced BH22-18 west of original excavation area and south of BH22-17.

**Viewing Direction: North**

Descriptive Photo - 15  
Viewing Direction: North  
Date: West of pad facing north. Advanced BH22-19 south of original excavation area and south-southeast of BH22-18.  
Created: 12/3/2022 11:10:31 AM  
Lat: 32.16843, Long: -103.799637

West of pad facing north. Advanced BH22-19 south of original excavation area and south-southeast of BH22-18.



# Daily Site Visit Report

|                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Viewing Direction: North</b>                                                                                                                                                                              |
|                                                                                                                                                                                                              |
| <p><small>Descriptive Photo - 3<br/>Viewing Direction: North<br/>Desc: South edge of previous excavation area facing north.<br/>Created: 12/2/2022 7:47:23 AM<br/>Lat: 32.81854 Long: -101.98856</small></p> |
| South edge of previous excavation area facing north.                                                                                                                                                         |
| <b>Viewing Direction: South</b>                                                                                                                                                                              |
|                                                                                                                                                                                                              |
| <p><small>Descriptive Photo - 4<br/>Viewing Direction: South<br/>Desc: North edge of previous excavation area facing south.<br/>Created: 12/2/2022 7:47:23 AM<br/>Lat: 32.81854 Long: -101.98856</small></p> |
| North edge of previous excavation area facing south.                                                                                                                                                         |

|                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Viewing Direction: West</b>                                                                                                                                                                            |
|                                                                                                                                                                                                           |
| <p><small>Descriptive Photo - 5<br/>Viewing Direction: West<br/>Desc: East edge of previous excavation area facing west.<br/>Created: 12/2/2022 7:47:23 AM<br/>Lat: 32.81854 Long: -101.98856</small></p> |
| East edge of previous excavation area facing west.                                                                                                                                                        |
| <b>Viewing Direction: East</b>                                                                                                                                                                            |
|                                                                                                                                                                                                           |
| <p><small>Descriptive Photo - 6<br/>Viewing Direction: East<br/>Desc: West edge of previous excavation area facing east.<br/>Created: 12/2/2022 7:47:23 AM<br/>Lat: 32.81854 Long: -101.98856</small></p> |
| West edge of previous excavation area facing east.                                                                                                                                                        |



# Daily Site Visit Report

**Viewing Direction: West**

Descriptive Photo # 2  
Viewing Direction: West  
Date: West edge of pad facing west. Advanced BH22-11 east of original excavation area.  
Created: 12/4/2022 9:37:27 AM  
Latitude: 31.21244, Longitude: -103.75544

West edge of pad facing west. Advanced BH22-11 east of original excavation area.

**Viewing Direction: West**

Descriptive Photo # 3  
Viewing Direction: West  
Date: West edge of pad facing west. Advanced BH22-12 east of original excavation area and north of BH22-11.  
Created: 12/4/2022 9:42:11 AM  
Latitude: 31.21244, Longitude: -103.75544

West edge of pad facing west. Advanced BH22-12 east of original excavation area and north of BH22-11.

**Viewing Direction: West**

Descriptive Photo # 4  
Viewing Direction: West  
Date: West edge of pad facing east. Advanced BH22-13 east of original excavation area and north of BH22-12.  
Created: 12/4/2022 9:47:27 AM  
Latitude: 31.21244, Longitude: -103.75544

West edge of pad facing east. Advanced BH22-13 east of original excavation area and north of BH22-12.

**Viewing Direction: South**

Descriptive Photo # 5  
Viewing Direction: South  
Date: West of pad facing south. Advanced BH22-14 north of original excavation area and northwest of BH22-13.  
Created: 12/4/2022 9:52:42 AM  
Latitude: 31.21244, Longitude: -103.75544

West of pad facing south. Advanced BH22-14 north of original excavation area and northwest of BH22-13.

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line.

Signature



# Daily Site Visit Report

|                         |                          |                  |                   |
|-------------------------|--------------------------|------------------|-------------------|
| Client:                 | Devon Energy Corporation | Inspection Date: | 1/21/2023         |
| Site Location Name:     | North Pure Gold 8 Fed #6 | Report Run Date: | 1/22/2023 1:48 AM |
| Client Contact Name:    | Wes Matthews             | API #:           | 30-015-27618      |
| Client Contact Phone #: | (575) 748-0176           |                  |                   |
| Unique Project ID       |                          | Project Owner:   |                   |
| Project Reference #     |                          | Project Manager: |                   |

### Summary of Times

|                 |                   |
|-----------------|-------------------|
| Arrived at Site | 1/21/2023 7:09 AM |
| Departed Site   | 1/21/2023 4:57 PM |

### Field Notes

- 7:21** Completed JSA on arrival. On site to collect confirmation samples from historical excavation west of pad.
- 7:21** Swept sampling locations with magnetic locator prior to ground disturbance.
- 7:23** Each sample is a composite of 5 separate boreholes representing a 200 square foot area at the depth indicated.
- 9:39** Advanced 5 boreholes along southeast edge of historical excavation to 3 feet bgs. Samples collected from each borehole were blended into a composite resample of WS21-04.
- 12:57** Advanced 5 boreholes along edge of former 8-foot sidewall in northwest corner of historical excavation. Samples collected from each 8-foot borehole were blended into composite sample WS23-09. Repeated the technique for interior wall sample WS23-12 from 3 to 8 feet bgs.
- 15:33** Advanced 5 boreholes along edge of former 4-foot sidewall in northwest corner of historical excavation. Samples collected from each 4-foot borehole were blended into composite sample WS23-10. Repeated the technique for interior wall sample WS23-11 from 3 to 4 feet bgs.
- 15:36** Advanced two sets of 5 boreholes within northeast portion of historical excavation. Samples collected from the base of each borehole were blended into composite samples BS23-09 and BS23-10. BS23-09 boreholes were 5 feet bgs and BS23-10 boreholes were 4.5 feet bgs.

# Daily Site Visit Report



## Next Steps & Recommendations

- 1 Continue confirmation sampling.

# Daily Site Visit Report



## Site Photos

Viewing Direction: North



South of pump jack facing north.

Viewing Direction: South



Northeast corner of historical excavation facing south.

Viewing Direction: South



Northwest corner of historical excavation facing south.

Viewing Direction: South



West of pad on southeast edge of historical excavation facing south. Advanced 5 boreholes to resample WS21-03.



# Daily Site Visit Report

**Viewing Direction: South**



West of pad on northwest end edge of historical excavation facing south. Advanced 5 boreholes to sample WS23-09.

**Viewing Direction: South**



West of pad on northwest end of historical excavation facing south. Advanced 5 boreholes to sample WS23-12.

**Viewing Direction: South**



West of pad on northeast end of historical excavation facing south. Advanced 5 boreholes to sample WS23-10.

**Viewing Direction: East**



West of pad in historical excavation facing west. Advanced 5 boreholes to sample WS23-11.



# Daily Site Visit Report

**Viewing Direction: North**

Descriptive Photo:  
 Site: West of pad on east side of historical excavation facing north. Advanced 5 boreholes to sample BS23-09.  
 Camera: 1217024 1:07:23 PM  
 1217024 1:07:23 PM

West of pad on east side of historical excavation facing north. Advanced 5 boreholes to sample BS23-09.

**Viewing Direction: North**

Descriptive Photo:  
 Site: West of pad on east side of historical excavation facing north. Advanced 5 boreholes to sample BS23-10.  
 Camera: 1217024 1:07:23 PM  
 1217024 1:07:23 PM

West of pad on east side of historical excavation facing north. Advanced 5 boreholes to sample BS23-10.

**Viewing Direction: North**

Descriptive Photo:  
 Site: South end of historical excavation facing north.  
 Camera: 1217024 1:07:23 PM  
 1217024 1:07:23 PM

South end of historical excavation facing north.

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line.

Signature



# Daily Site Visit Report

|                         |                          |                  |                   |
|-------------------------|--------------------------|------------------|-------------------|
| Client:                 | Devon Energy Corporation | Inspection Date: | 1/22/2023         |
| Site Location Name:     | North Pure Gold 8 Fed #6 | Report Run Date: | 1/23/2023 1:55 AM |
| Client Contact Name:    | Wes Matthews             | API #:           | 30-015-27618      |
| Client Contact Phone #: | (575) 748-0176           |                  |                   |
| Unique Project ID       |                          | Project Owner:   |                   |
| Project Reference #     |                          | Project Manager: |                   |

## Summary of Times

|                 |                   |
|-----------------|-------------------|
| Arrived at Site | 1/22/2023 8:09 AM |
| Departed Site   | 1/22/2023 5:33 PM |

## Field Notes

- 8:14** Completed JSA on arrival. On site to continue confirmation soil sampling historical excavation with hand auger.
- 8:26** Swept sampling points with magnetic locator prior to ground disturbance.
- 10:43** Collected base samples by advancing 5 boreholes to depth and making a composite from the samples collected at the bottom of each borehole.
- 12:12** Collected composite samples of BS23-11 and BS23-12 at 4.5 and 4 feet bgs, respectively.
- 12:56** Collected composite samples of BS23-13 and BS23-14 at 3 feet bgs.
- 12:57** Collected composite samples of BS23-15 at 3 feet bgs.

## Next Steps & Recommendations

- 1** Continue confirmation sampling.



# Daily Site Visit Report

## Site Photos

Viewing Direction: North



South of pump jack facing north.

Viewing Direction: South



West of pad on northeast portion of historical excavation facing south. Advanced 5 boreholes to collect confirmation samples for BS23-11.



# Daily Site Visit Report

**Viewing Direction: North**



Description Photo - 1  
Viewing Direction: North  
Date: West of pad on historical excavation facing north. Advanced 5 boreholes to collect confirmation samples for BS23-12.  
Created: 1/23/2023 1:55 AM UTC  
Lat: 31.7077 Long: 102.7188

West of pad on historical excavation facing north. Advanced 5 boreholes to collect confirmation samples for BS23-12.

**Viewing Direction: South**



Description Photo - 1  
Viewing Direction: South  
Date: West of pad on northwest portion of historical excavation facing south. Advanced 5 boreholes to collect confirmation samples for BH23-13.  
Created: 1/23/2023 1:55 AM UTC  
Lat: 31.7077 Long: 102.7188

West of pad on northwest portion of historical excavation facing south. Advanced 5 boreholes to collect confirmation samples for BH23-13.

**Viewing Direction: North**



Description Photo - 1  
Viewing Direction: North  
Date: West of pad on historical excavation facing north. Advanced 5 boreholes to collect confirmation samples for BS23-14.  
Created: 1/23/2023 1:55 AM UTC  
Lat: 31.7077 Long: 102.7188

West of pad on historical excavation facing north. Advanced 5 boreholes to collect confirmation samples for BS23-14.

**Viewing Direction: South**



Description Photo - 1  
Viewing Direction: South  
Date: West of pad on historical excavation facing south. Advanced 5 boreholes to collect confirmation samples for BS23-15.  
Created: 1/23/2023 1:55 AM UTC  
Lat: 31.7077 Long: 102.7188

West of pad on historical excavation facing south. Advanced 5 boreholes to collect confirmation samples for BS23-15.



# Daily Site Visit Report

Viewing Direction: North



West of pad on historical excavation facing north.

Viewing Direction: South



West of pad on northwest portion of historical excavation facing south.

Viewing Direction: South



West of pad on northeast portion of historical excavation facing south.

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

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



# Daily Site Visit Report

|                         |                          |                  |                    |
|-------------------------|--------------------------|------------------|--------------------|
| Client:                 | Devon Energy Corporation | Inspection Date: | 1/25/2023          |
| Site Location Name:     | North Pure Gold 8 Fed #6 | Report Run Date: | 1/26/2023 12:13 AM |
| Client Contact Name:    | Wes Matthews             | API #:           | 30-015-27618       |
| Client Contact Phone #: | (575) 748-0176           |                  |                    |
| Unique Project ID       |                          | Project Owner:   |                    |
| Project Reference #     |                          | Project Manager: |                    |

## Summary of Times

|                 |                   |
|-----------------|-------------------|
| Arrived at Site | 1/25/2023 7:20 AM |
| Departed Site   | 1/25/2023 3:24 PM |

## Field Notes

- 7:27** Completed JSA on arrival. On site to continue confirmation sampling of historical excavation with boreholes.
- 8:02** Sampling locations swept with magnetic locator prior to ground disturbance.
- 8:05** Confirmation samples collected for each sample point by advancing 5 boreholes to respective depth with hand auger. Boreholes for each sample point were distributed over 200 square feet. Samples were collected at the base of each borehole and blended into a 5-point composite for each sample point.
- 11:14** Collected composite samples BS23-16 and BS23-17 at 2.5 feet bgs on west side of historical excavation.
- 12:43** Collected composite samples for BS23-18 at 2 feet bgs on southwest corner of historical excavation.
- 14:10** Collected composite samples for BS23-19 at 2.5 feet bgs on southwest corner of historical excavation.
- 14:10** Collected composite samples BS23-20 and BS23-21 at 2.5 feet bgs on south side of historical excavation.
- 14:10** Collected composite samples for BS23-22 at 3 feet bgs on south side of historical excavation.
- 15:13** Completed confirmation sampling pending laboratory results.
- 15:15** Field screening results below NMOCD strictest criteria for all composite samples.

## Next Steps & Recommendations

## Daily Site Visit Report



- 1 Submit samples to laboratory for analyses.



# Daily Site Visit Report

## Site Photos

Viewing Direction: North



Dispositive Photo - 1  
Viewing Direction: North  
Date: South of pump jack facing north  
Created: 1/25/2023 7:40:21 AM  
Lat: 32.517165, Long: -103.789247

South of pump jack facing north.

Viewing Direction: West



Dispositive Photo - 11  
Viewing Direction: West  
Date: Southeast corner of historical excavation facing west  
Created: 1/25/2023 7:40:21 AM  
Lat: 32.517165, Long: -103.789247

Southeast corner of historical excavation facing west.

Viewing Direction: North



Dispositive Photo - 11  
Viewing Direction: North  
Date: Southeast corner of historical excavation facing north  
Created: 1/25/2023 7:40:21 AM  
Lat: 32.517165, Long: -103.789247

Southeast corner of historical excavation facing north.

Viewing Direction: West



Dispositive Photo - 11  
Viewing Direction: West  
Date: East edge of historical excavation facing west  
Created: 1/25/2023 7:40:21 AM  
Lat: 32.517165, Long: -103.789247

East edge of historical excavation facing west.



# Daily Site Visit Report

**Viewing Direction: South**

Descriptive Photo: 14  
Viewing Direction: South  
Date: 01/26/2023 1:07:23 PM  
Created: 1/26/2023 1:07:23 PM  
Lat: 32.31666, Long: -103.78889

Northeast corner of historical excavation facing south.

**Viewing Direction: South**

Descriptive Photo: 14  
Viewing Direction: South  
Date: 01/26/2023 1:07:23 PM  
Created: 1/26/2023 1:07:23 PM  
Lat: 32.31666, Long: -103.78889

Northwest corner of historical excavation facing south.

**Viewing Direction: East**

Descriptive Photo: 14  
Viewing Direction: East  
Date: 01/26/2023 1:07:23 PM  
Created: 1/26/2023 1:07:23 PM  
Lat: 32.31666, Long: -103.78889

West edge of historical excavation facing east.

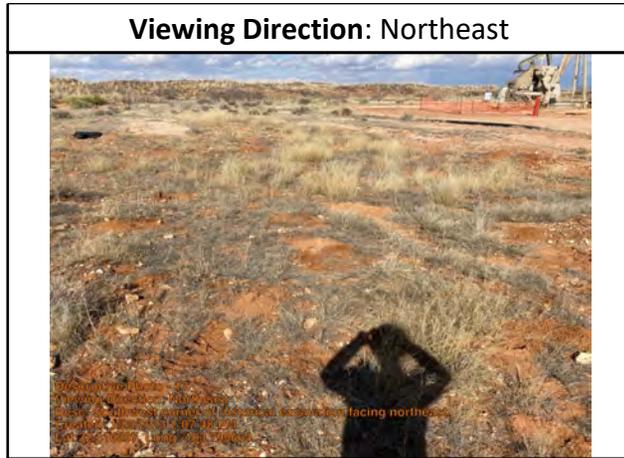
**Viewing Direction: North**

Descriptive Photo: 14  
Viewing Direction: North  
Date: 01/26/2023 1:07:23 PM  
Created: 1/26/2023 1:07:23 PM  
Lat: 32.31666, Long: -103.78889

Southwest corner of historical excavation facing north.



# Daily Site Visit Report



Southwest corner of historical excavation facing northeast.



Southwest corner of historical excavation facing east.



South edge of historical excavation facing north.



West side of historical excavation facing north. Advanced 5 boreholes for BS23-16.



# Daily Site Visit Report

**Viewing Direction: North**



Description Photo 13  
Viewing Direction: North  
Desc: West side of historical excavation facing north. Advanced 5 boreholes for BS23-17.  
Created: 1/26/2023 10:25:20 AM  
Lat:32.316327 Long:-103.799634

West side of historical excavation facing north. Advanced 5 boreholes for BS23-17.

**Viewing Direction: Northeast**



Description Photo 14  
Viewing Direction: Northeast  
Desc: Southwest corner of historical excavation facing northeast. Advanced 5 boreholes for BS23-18.  
Created: 1/26/2023 11:43:51 AM  
Lat:32.316327 Long:-103.799634

Southwest corner of historical excavation facing northeast. Advanced 5 boreholes for BS23-18.

**Viewing Direction: Northwest**



Description Photo 15  
Viewing Direction: Northwest  
Desc: Southeast corner of historical excavation facing northwest. Advanced 5 boreholes for BS23-19.  
Created: 1/26/2023 1:43:07 PM  
Lat:32.316327 Long:-103.799634

Southeast corner of historical excavation facing northwest. Advanced 5 boreholes for BS23-19.

**Viewing Direction: Southwest**



Description Photo 16  
Viewing Direction: Southwest  
Desc: East edge of historical excavation facing southwest. Advanced 5 boreholes for BS23-20.  
Created: 1/26/2023 12:42:31 PM  
Lat:32.316327 Long:-103.799634

East edge of historical excavation facing southwest. Advanced 5 boreholes for BS23-20.



# Daily Site Visit Report

Viewing Direction: Northwest



Description: Photo 1  
Viewing Direction: Northwest  
Date: 3/23/2023 1:07:23 PM  
Created: 3/23/2023 1:07:23 PM  
Lat: 31.150000, Long: -104.150000

South end of historical excavation facing northwest. Advanced 5 boreholes for BS23-21.

Viewing Direction: Northwest



Description: Photo 2  
Viewing Direction: Northwest  
Date: 3/23/2023 1:07:23 PM  
Created: 3/23/2023 1:07:23 PM  
Lat: 31.150000, Long: -104.150000

East side of historical excavation facing northwest. Advanced 5 boreholes for BS23-22.

Viewing Direction: Northwest



Description: Photo 3  
Viewing Direction: Northwest  
Date: 3/23/2023 1:07:23 PM  
Created: 3/23/2023 1:07:23 PM  
Lat: 31.150000, Long: -104.150000

Southeast corner of historical excavation facing northwest.

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

  
Signature



# Daily Site Visit Report

|                         |                          |                  |                   |
|-------------------------|--------------------------|------------------|-------------------|
| Client:                 | Devon Energy Corporation | Inspection Date: | 2/20/2023         |
| Site Location Name:     | North Pure Gold 8 Fed #6 | Report Run Date: | 2/21/2023 1:41 AM |
| Client Contact Name:    | Jim Raley                | API #:           | 30-015-27618      |
| Client Contact Phone #: | 575-748-0176             |                  |                   |
| Unique Project ID       |                          | Project Owner:   |                   |
| Project Reference #     |                          | Project Manager: |                   |

## Summary of Times

|                 |                   |
|-----------------|-------------------|
| Arrived at Site | 2/20/2023 7:42 AM |
| Departed Site   | 2/20/2023 4:47 PM |

## Field Notes

- 8:32** Completed JSA on arrival. On site to collect confirmation samples from overspray area around historical release and excavation.
- 9:27** Added sample points and remapped sample locations to cover standard NMOCD requirements of one 5-point confirmation sample per 200 square feet.
- 9:27** Swept sampling areas with magnetic locator prior to ground disturbance.
- 16:43** Collected 50 confirmation samples from overspray area.

## Next Steps & Recommendations

1



# Daily Site Visit Report

## Site Photos

Viewing Direction: North



Describe Photo - 10  
Viewing Direction: North  
Date: South of pump jack facing north  
Created: 2/20/2023 7:02:45 AM  
Lat:32.317296, Long:-103.748493

South of pump jack facing north.

Viewing Direction: South



Describe Photo - 10  
Viewing Direction: South  
Date: North edge of overspray area facing south  
Created: 2/20/2023 8:44:00 AM  
Lat:32.317296, Long:-103.748493

North edge of overspray area facing south.

Viewing Direction: Southeast



Describe Photo - 11  
Viewing Direction: Southeast  
Date: North edge of overspray area facing southeast  
Created: 2/20/2023 8:44:57 AM  
Lat:32.317296, Long:-103.748493

North edge of overspray area facing southeast.

Viewing Direction: North



Describe Photo - 8  
Viewing Direction: North  
Date: Southeast corner of overspray area facing north  
Created: 2/20/2023 8:44:51 AM  
Lat:32.317296, Long:-103.748493

Southeast corner of overspray area facing north.



# Daily Site Visit Report

**Viewing Direction: Northwest**

Descriptive Photo - 5  
Viewing Direction: Northwest  
Date: Southeast corner of overspray area facing northwest  
Created: 2/27/2023 9:34:23 AM  
Latitude: 31.9229, Longitude: -103.79246

Southeast corner of overspray area facing northwest.

**Viewing Direction: West**

Descriptive Photo - 6  
Viewing Direction: West  
Date: Southeast corner of overspray area facing west  
Created: 2/27/2023 9:37:11 AM  
Latitude: 31.9229, Longitude: -103.79246

Southeast corner of overspray area facing west.

**Viewing Direction: North**

Descriptive Photo - 7  
Viewing Direction: North  
Date: South edge of overspray area facing north  
Created: 2/27/2023 9:44:19 AM  
Latitude: 31.9229, Longitude: -103.79246

South edge of overspray area facing north.

**Viewing Direction: Southeast**

Descriptive Photo - 8  
Viewing Direction: Southeast  
Date: West edge of overspray area facing southeast  
Created: 2/27/2023 9:46:16 AM  
Latitude: 31.9229, Longitude: -103.79246

West edge of overspray area facing southeast.



# Daily Site Visit Report

**Viewing Direction: East**



Describe Photo - 7  
Viewing Direction: East  
Edge: West edge of overspray area facing east  
Created: 2/20/2023 8:42:57 AM  
Lat: 33.517016, Long: -103.508788

West edge of overspray area facing east.

**Viewing Direction: Northeast**



Describe Photo - 8  
Viewing Direction: Northeast  
Edge: West edge of overspray area facing northeast  
Created: 2/20/2023 8:43:02 AM  
Lat: 33.517006, Long: -103.508844

West edge of overspray area facing northeast.

**Viewing Direction: Southwest**



Describe Photo - 9  
Viewing Direction: Southwest  
Edge: North edge of overspray area facing southwest  
Created: 2/20/2023 8:44:12 AM  
Lat: 33.517236, Long: -103.508844

North edge of overspray area facing southwest.

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

  
Signature



# Daily Site Visit Report

|                         |                          |                  |                   |
|-------------------------|--------------------------|------------------|-------------------|
| Client:                 | Devon Energy Corporation | Inspection Date: | 2/21/2023         |
| Site Location Name:     | North Pure Gold 8 Fed #6 | Report Run Date: | 2/22/2023 1:00 AM |
| Client Contact Name:    | Wes Matthews             | API #:           | 30-015-27618      |
| Client Contact Phone #: | (575) 748-0176           |                  |                   |
| Unique Project ID       |                          | Project Owner:   |                   |
| Project Reference #     |                          | Project Manager: |                   |

### Summary of Times

|                 |                   |
|-----------------|-------------------|
| Arrived at Site | 2/21/2023 6:31 AM |
| Departed Site   | 2/21/2023 4:07 PM |

### Field Notes

- 6:55** Completed JSA on arrival. On site to resample 5 overspray confirmation sample points and complete vertical delineation.
- 7:54** Swept sampling areas with magnetic locator prior to ground disturbance.
- 13:29** Collected confirmation re-samples and field screened for chloride and TPH. Results were below NMOCD strictest criteria.
- 13:30** Advanced BH22-21 on northwest corner of previous excavation to 9 feet bgs for vertical delineation.
- 13:30** Advanced BH22-22 on east side of previous excavation to 8 feet bgs for vertical delineation.
- 13:31** Advanced BH22-23 on south side of previous excavation to 6 feet bgs for vertical delineation.
- 16:04** Delineation should be completed.

### Next Steps & Recommendations

1



# Daily Site Visit Report

## Site Photos

Viewing Direction: North



*Descriptive Photo #1  
Viewing Direction: North  
Scene: South of pump jack facing north.  
Location: 2522022 123447 00  
Date: 3/15/23, Time: 1:33:23 PM  
Latitude: 35.9831, Longitude: 103.7452*

South of pump jack facing north.

Viewing Direction: North



*Descriptive Photo #2  
Viewing Direction: North  
Scene: South side of historical excavation facing north. Advanced BH23-23 on south side of original release area.  
Location: 2522022 123447 00  
Date: 3/15/23, Time: 1:33:23 PM  
Latitude: 35.9831, Longitude: 103.7452*

South side of historical excavation facing north. Advanced BH23-23 on south side of original release area.

Viewing Direction: Northeast



*Descriptive Photo #3  
Viewing Direction: Northeast  
Scene: South edge of overspray area facing northeast.  
Location: 2522022 123447 00  
Date: 3/15/23, Time: 1:33:23 PM  
Latitude: 35.9831, Longitude: 103.7452*

South edge of overspray area facing northeast.

Viewing Direction: North



*Descriptive Photo #4  
Viewing Direction: North  
Scene: South edge of overspray area facing north.  
Location: 2522022 123447 00  
Date: 3/15/23, Time: 1:33:23 PM  
Latitude: 35.9831, Longitude: 103.7452*

South edge of overspray area facing north.



# Daily Site Visit Report

**Viewing Direction: Northwest**



Descriptive Photo - 1  
Viewing Direction: Northwest  
Date: North edge of overspray area facing northwest  
Created: 2/22/2023 10:23 AM  
Accession #: 1722 - 1744 - 00004

South edge of overspray area facing northwest.

**Viewing Direction: Southwest**



Descriptive Photo - 2  
Viewing Direction: Southwest  
Date: North edge of overspray area facing southwest  
Created: 2/22/2023 10:23 AM  
Accession #: 1722 - 1744 - 00005

North edge of overspray area facing southwest.

**Viewing Direction: South**



Descriptive Photo - 3  
Viewing Direction: South  
Date: North edge of overspray area facing south  
Created: 2/22/2023 10:23 AM  
Accession #: 1722 - 1744 - 00006

North edge of overspray area facing south.

**Viewing Direction: Southeast**



Descriptive Photo - 4  
Viewing Direction: Southeast  
Date: North edge of overspray area facing southeast  
Created: 2/22/2023 10:23 AM  
Accession #: 1722 - 1744 - 00007

North edge of overspray area facing southeast.



# Daily Site Visit Report

**Viewing Direction: South**



Advanced BH22-21  
Viewing Direction: South  
Date: East side of historical excavation facing south. Advanced BH22-21 at center of former 8-foot excavation.

Northwest corner of historical excavation facing south. Advanced BH22-21 at center of former 8-foot excavation.

**Viewing Direction: South**



Advanced BH22-22  
Viewing Direction: South  
Date: East side of historical excavation facing south. Advanced BH22-22 on east side of historical excavation.

East side of historical excavation facing south. Advanced BH22-22 on east side of historical excavation.

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

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

## **APPENDIX D – Notifications**



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

**NRM2004149681: North Pure Gold 8 Fed #6/48-hr Notification of Confirmatory Sampling**

2 messages

**Dhugal Hanton** <vertexresourcegroupusa@gmail.com>

To: "Enviro, OCD, EMNRD" <OCD.Enviro@state.nm.us>, "CFO\_Spill, BLM\_NM" <blm\_nm\_cfo\_spill@blm.gov>, Kelsey <KWade@blm.gov>, "Amos, James A" <Jamos@blm.gov>, Lupe.Carra

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at North Pure Gold 8 Fed #6 for the following release:

NRM2004149681 DOR: February 3, 2020.

This work will be completed on behalf of Devon Energy Production Company.

On Friday, February 5, 2021 at approximately 8:00 AM, John Ramirez will be onsite to conduct confirmatory sampling. He can be reached at 575-725-1809.If you need directions to the s 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**

F

[www.vertex.ca](http://www.vertex.ca)

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**Dhugal Hanton** <vertexresourcegroupusa@gmail.com>

To: mpeppin@vertex.ca

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

From: **Dhugal Hanton** <vertexresourcegroupusa@gmail.com>

Date: Wed, Feb 3, 2021 at 9:37 AM

Subject: NRM2004149681: North Pure Gold 8 Fed #6/48-hr Notification of Confirmatory Sampling

To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>, CFO\_Spill, BLM\_NM <blm\_nm\_cfo\_spill@blm.gov>, Kelsey <KWade@blm.gov>, Amos, James A <Jamos@blm.gov>, <Lupe.Carras <wesley.mathews@dvn.com>

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at North Pure Gold 8 Fed #6 for the following release:

NRM2004149681 DOR: February 3, 2020.

This work will be completed on behalf of Devon Energy Production Company.

On Friday, February 5, 2021 at approximately 8:00 AM, John Ramirez will be onsite to conduct confirmatory sampling. He can be reached at 575-725-1809.If you need directions to the s 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**

F



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

---

## 48 Hour confirmatory sampling notice

7 messages

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**Dhugal Hanton** <vertexresourcegroupusa@gmail.com>  
To: "Enviro, OCD, EMNRD" <OCD.Enviro@state.nm.us>

Tue, Jan 10, 2023 at 10:36 AM

All,

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

nHMP1410424987

nRM2004149681

Site Name: North Pure Gold 8 Fed 6

This work will be completed on behalf of Devon Energy.

Starting on Friday, January 13 through Wednesday January 18, 2023 at approximately 8:00 a.m., Lakin Pullman will be onsite to conduct continuous confirmatory sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Kent Stallings** P.G.  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

**P 575.725.5001**

**C 346.814.1413**

[www.vertex.ca](http://www.vertex.ca)

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---

**Enviro, OCD, EMNRD** <OCD.Enviro@emnrd.nm.gov>  
To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Tue, Jan 10, 2023 at 10:45 AM

Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>

Dhugal,

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

JH

**Jocelyn Harimon** • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

1220 South St. Francis Drive | Santa Fe, NM 87505

(505)469-2821 | [Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)

[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



**From:** Dhugal Hanton <[vertexresourcegroupusa@gmail.com](mailto:vertexresourcegroupusa@gmail.com)>  
**Sent:** Tuesday, January 10, 2023 10:37 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Subject:** [EXTERNAL] 48 Hour confirmatory sampling notice

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

All,

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

nHMP1410424987

nRM2004149681

Site Name: North Pure Gold 8 Fed 6

This work will be completed on behalf of Devon Energy.

Starting on Friday, January 13 through Wednesday January 18, 2023 at approximately 8:00 a.m., Lakin Pullman will be onsite to conduct continuous confirmatory sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Kent Stallings** P.G.  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

**P 575.725.5001**  
**C 346.814.1413**

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**Dhugal Hanton** <vertexresourcegroupusa@gmail.com>  
To: "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>  
Cc: "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>

Mon, Jan 23, 2023 at 7:07 AM

All,

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

nHMP1410424987

nRM2004149681

Site Name: North Pure Gold 8 Fed 6

This work will be completed on behalf of Devon Energy.

Starting on Wednesday, January 25 through Saturday January 28, 2023 at approximately 8:00 a.m., Lakin Pullman will be onsite to continue to conduct continuous confirmatory sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Kent Stallings** P.G.  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

**P 575.725.5001**  
**C 346.814.1413**

[www.vertex.ca](http://www.vertex.ca)

On Tue, Jan 10, 2023 at 10:45 AM Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov> wrote:

Dhugal,

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

JH

**Jocelyn Harimon** • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

1220 South St. Francis Drive | Santa Fe, NM 87505

(505)469-2821 | [Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)

[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



**From:** Dhugal Hanton <[vertexresourcegroupusa@gmail.com](mailto:vertexresourcegroupusa@gmail.com)>

**Sent:** Tuesday, January 10, 2023 10:37 AM

**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>

**Subject:** [EXTERNAL] 48 Hour confirmatory sampling notice

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

All,

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

nHMP1410424987

nRM2004149681

Site Name: North Pure Gold 8 Fed 6

This work will be completed on behalf of Devon Energy.

Starting on Friday, January 13 through Wednesday January 18, 2023 at approximately 8:00 a.m., Lakin Pullman will be onsite to conduct continuous confirmatory sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Kent Stallings** P.G.  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

**P 575.725.5001**  
**C 346.814.1413**

[www.vertex.ca](http://www.vertex.ca)

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**Enviro, OCD, EMNRD** <OCD.Enviro@emnrd.nm.gov>  
To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>

Mon, Jan 23, 2023 at 8:07 AM

Kent,

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

JH

**Jocelyn Harimon** • Environmental Specialist

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[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



**From:** Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
**Sent:** Monday, January 23, 2023 7:07 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Cc:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Subject:** Re: [EXTERNAL] 48 Hour confirmatory sampling notice

All,

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

nHMP1410424987

nRM2004149681

Site Name: North Pure Gold 8 Fed 6

This work will be completed on behalf of Devon Energy.

Starting on Wednesday, January 25 through Saturday January 28, 2023 at approximately 8:00 a.m., Lakin Pullman will be onsite to continue to conduct continuous confirmatory sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Kent Stallings** P.G.  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

**P 575.725.5001**  
**C 346.814.1413**

[www.vertex.ca](http://www.vertex.ca)

On Tue, Jan 10, 2023 at 10:45 AM Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)> wrote:

Dhugal,

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

JH

**Jocelyn Harimon** • Environmental Specialist

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[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
Sent: Tuesday, January 10, 2023 10:37 AM  
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
Subject: [EXTERNAL] 48 Hour confirmatory sampling notice

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

All,

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

nHMP1410424987

nRM2004149681

Site Name: North Pure Gold 8 Fed 6

This work will be completed on behalf of Devon Energy.

Starting on Friday, January 13 through Wednesday January 18, 2023 at approximately 8:00 a.m., Lakin Pullman will be onsite to conduct continuous confirmatory sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Kent Stallings** P.G.  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

**P 575.725.5001**  
**C 346.814.1413**

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Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
To: "Enviro, OCD, EMNRD" <OCD.Enviro@state.nm.us>

Tue, Feb 14, 2023 at 6:21 AM

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

nHMP1410424987

nRM2004149681

Site Name: North Pure Gold 8 Fed 6

This work will be completed on behalf of Devon Energy.

Starting on Thursday, February 16 through Wednesday February 22, 2023 at approximately 8:00 a.m., Lakin Pullman will be onsite to continue to conduct continuous confirmatory sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Kent Stallings** P.G.  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

On Tue, Jan 10, 2023 at 10:36 AM Dhugal Hanton <[vertexresourcegroupusa@gmail.com](mailto:vertexresourcegroupusa@gmail.com)> wrote:

All,

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

nHMP1410424987

nRM2004149681

Site Name: North Pure Gold 8 Fed 6

This work will be completed on behalf of Devon Energy.

Starting on Friday, January 13 through Wednesday January 18, 2023 at approximately 8:00 a.m., Lakin Pullman will be onsite to conduct continuous confirmatory sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Kent Stallings** P.G.  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

**P 575.725.5001**  
**C 346.814.1413**

[www.vertex.ca](http://www.vertex.ca)

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**Enviro, OCD, EMNRD** <OCD.Enviro@emnrd.nm.gov>  
To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
Cc: "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>, "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Thu, Feb 16, 2023 at 9:21 AM

Kent,

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

JH

**Jocelyn Harimon** • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

1220 South St. Francis Drive | Santa Fe, NM 87505

(505)469-2821 | [Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)

[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



**From:** Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
**Sent:** Tuesday, February 14, 2023 6:22 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Subject:** [EXTERNAL] Re: 48 Hour confirmatory sampling notice

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

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

nHMP1410424987

nRM2004149681

Site Name: North Pure Gold 8 Fed 6

This work will be completed on behalf of Devon Energy.

Starting on Thursday, February 16 through Wednesday February 22, 2023 at approximately 8:00 a.m., Lakin Pullman will be onsite to continue to conduct continuous confirmatory sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Kent Stallings** P.G.  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

On Tue, Jan 10, 2023 at 10:36 AM Dhugal Hanton <vertexresourcegroupusa@gmail.com> wrote:

All,

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

nHMP1410424987

nRM2004149681

Site Name: North Pure Gold 8 Fed 6

This work will be completed on behalf of Devon Energy.

Starting on Friday, January 13 through Wednesday January 18, 2023 at approximately 8:00 a.m., Lakin Pullman will be onsite to conduct continuous confirmatory sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Kent Stallings** P.G.  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

**P 575.725.5001**  
**C 346.814.1413**

[www.vertex.ca](http://www.vertex.ca)

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in this message and any attachment is prohibited. If you have received this communication in error, please notify us by reply email and immediately and permanently delete this message and any attachments. Thank you

**Dhugal Hanton** <vertexresourcegroupusa@gmail.com>

Wed, May 17, 2023 at 6:56 AM

To: "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>, "CFO\_Spill, BLM\_NM" <blm\_nm\_cfo\_spill@blm.gov>

Cc: "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>, "Bratcher, Michael, EMNRD"

<mike.bratcher@emnrd.nm.gov>, KStallings@vertex.ca

All,

Please accept this email as 48-hour notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at the North Pure Gold 8 Federal #006 for the following release.

nRM2004149681 DOR: February 3, 2020

This work will be completed on behalf of Devon Energy Production Company, LP.

On Friday, May 19, 2023, Lakin Pullman will be on-site at approximately 07:30 AM to conduct confirmation sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions regarding this notification, please call me at 701-495-1722.

Thank you,

**Lakin Pullman**

Environmental Specialist

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad, NM 88220

**C 701.495.1722**

On Thu, Feb 16, 2023 at 9:21 AM Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov> wrote:

Kent,

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

JH

**Jocelyn Harimon** • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

1220 South St. Francis Drive | Santa Fe, NM 87505

(505)469-2821 | [Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)

[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



**From:** Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
**Sent:** Tuesday, February 14, 2023 6:22 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Subject:** [EXTERNAL] Re: 48 Hour confirmatory sampling notice

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

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

nHMP1410424987

nRM2004149681

Site Name: North Pure Gold 8 Fed 6

This work will be completed on behalf of Devon Energy.

Starting on Thursday, February 16 through Wednesday February 22, 2023 at approximately 8:00 a.m., Lakin Pullman will be onsite to continue to conduct continuous confirmatory sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Kent Stallings** P.G.  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

On Tue, Jan 10, 2023 at 10:36 AM Dhugal Hanton <vertexresourcegroupusa@gmail.com> wrote:

All,

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

nHMP1410424987

nRM2004149681

Site Name: North Pure Gold 8 Fed 6

This work will be completed on behalf of Devon Energy.

6/5/23, 11:42 AM

Starting on Friday, January 13 through Wednesday January 18, 2023 at approximately 8:00 a.m., Lakin Pullman will be onsite to conduct continuous confirmatory sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

**Kent Stallings** P.G.  
Project Manager

Vertex Resource Services Inc.  
3101 Boyd Drive,  
Carlsbad, NM 88220

**P 575.725.5001**  
**C 346.814.1413**

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## **APPENDIX E – Laboratory Data Reports and Chain of Custody Forms**



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

August 09, 2021

John Hurt  
Devon Energy  
6488 Seven Rivers Highway  
Artesia, NM 88210  
TEL: (505) 350-1336  
FAX

RE: North Pure Gold 8 Fed 6

OrderNo.: 2107F55

Dear John Hurt:

Hall Environmental Analysis Laboratory received 14 sample(s) on 7/30/2021 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2107F55**

Date Reported: **8/9/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH21-06 0.5'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 7/28/2021 8:10:00 AM

**Lab ID:** 2107F55-001

**Matrix:** SOIL

**Received Date:** 7/30/2021 8:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>  |
| Diesel Range Organics (DRO)                      | 40     | 9.5    |      | mg/Kg | 1  | 8/3/2021 2:20:29 AM |
| Motor Oil Range Organics (MRO)                   | 63     | 48     |      | mg/Kg | 1  | 8/3/2021 2:20:29 AM |
| Surr: DNOP                                       | 90.2   | 70-130 |      | %Rec  | 1  | 8/3/2021 2:20:29 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>mb</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 5.0    |      | mg/Kg | 1  | 8/3/2021 1:13:00 AM |
| Surr: BFB                                        | 106    | 70-130 |      | %Rec  | 1  | 8/3/2021 1:13:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>mb</b>  |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 8/3/2021 1:13:00 AM |
| Toluene                                          | ND     | 0.050  |      | mg/Kg | 1  | 8/3/2021 1:13:00 AM |
| Ethylbenzene                                     | ND     | 0.050  |      | mg/Kg | 1  | 8/3/2021 1:13:00 AM |
| Xylenes, Total                                   | ND     | 0.099  |      | mg/Kg | 1  | 8/3/2021 1:13:00 AM |
| Surr: 4-Bromofluorobenzene                       | 93.7   | 70-130 |      | %Rec  | 1  | 8/3/2021 1:13:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>  |
| Chloride                                         | 2700   | 150    |      | mg/Kg | 50 | 8/5/2021 8:47:54 AM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2107F55**

Date Reported: **8/9/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH21-06 1'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 7/28/2021 8:15:00 AM

**Lab ID:** 2107F55-002

**Matrix:** SOIL

**Received Date:** 7/30/2021 8:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.4    |      | mg/Kg | 1  | 8/3/2021 2:44:43 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 47     |      | mg/Kg | 1  | 8/3/2021 2:44:43 AM |
| Surr: DNOP                                       | 94.1   | 70-130 |      | %Rec  | 1  | 8/3/2021 2:44:43 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>mb</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 8/3/2021 1:33:00 AM |
| Surr: BFB                                        | 108    | 70-130 |      | %Rec  | 1  | 8/3/2021 1:33:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>mb</b>  |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 8/3/2021 1:33:00 AM |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 1:33:00 AM |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 1:33:00 AM |
| Xylenes, Total                                   | ND     | 0.099  |      | mg/Kg | 1  | 8/3/2021 1:33:00 AM |
| Surr: 4-Bromofluorobenzene                       | 93.1   | 70-130 |      | %Rec  | 1  | 8/3/2021 1:33:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>  |
| Chloride                                         | 560    | 59     |      | mg/Kg | 20 | 8/5/2021 7:45:52 AM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2107F55**

Date Reported: **8/9/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH21-08 0.5'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 7/28/2021 8:25:00 AM

**Lab ID:** 2107F55-003

**Matrix:** SOIL

**Received Date:** 7/30/2021 8:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.2    |      | mg/Kg | 1  | 8/3/2021 3:08:57 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46     |      | mg/Kg | 1  | 8/3/2021 3:08:57 AM |
| Surr: DNOP                                       | 91.5   | 70-130 |      | %Rec  | 1  | 8/3/2021 3:08:57 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>mb</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 8/3/2021 2:32:00 AM |
| Surr: BFB                                        | 104    | 70-130 |      | %Rec  | 1  | 8/3/2021 2:32:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>mb</b>  |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 8/3/2021 2:32:00 AM |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 2:32:00 AM |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 2:32:00 AM |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 8/3/2021 2:32:00 AM |
| Surr: 4-Bromofluorobenzene                       | 91.3   | 70-130 |      | %Rec  | 1  | 8/3/2021 2:32:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>  |
| Chloride                                         | 1000   | 60     |      | mg/Kg | 20 | 8/5/2021 7:58:16 AM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2107F55**

Date Reported: **8/9/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH21-08 1'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 7/28/2021 8:30:00 AM

**Lab ID:** 2107F55-004

**Matrix:** SOIL

**Received Date:** 7/30/2021 8:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.2    |      | mg/Kg | 1  | 8/3/2021 3:33:16 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46     |      | mg/Kg | 1  | 8/3/2021 3:33:16 AM |
| Surr: DNOP                                       | 90.0   | 70-130 |      | %Rec  | 1  | 8/3/2021 3:33:16 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>mb</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 5.0    |      | mg/Kg | 1  | 8/3/2021 2:52:00 AM |
| Surr: BFB                                        | 109    | 70-130 |      | %Rec  | 1  | 8/3/2021 2:52:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>mb</b>  |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 8/3/2021 2:52:00 AM |
| Toluene                                          | ND     | 0.050  |      | mg/Kg | 1  | 8/3/2021 2:52:00 AM |
| Ethylbenzene                                     | ND     | 0.050  |      | mg/Kg | 1  | 8/3/2021 2:52:00 AM |
| Xylenes, Total                                   | ND     | 0.099  |      | mg/Kg | 1  | 8/3/2021 2:52:00 AM |
| Surr: 4-Bromofluorobenzene                       | 94.7   | 70-130 |      | %Rec  | 1  | 8/3/2021 2:52:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>  |
| Chloride                                         | 360    | 59     |      | mg/Kg | 20 | 8/5/2021 8:10:40 AM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2107F55**

Date Reported: **8/9/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH21-07 0.5'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 7/28/2021 8:35:00 AM

**Lab ID:** 2107F55-005

**Matrix:** SOIL

**Received Date:** 7/30/2021 8:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.7    |      | mg/Kg | 1  | 8/3/2021 3:57:28 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 49     |      | mg/Kg | 1  | 8/3/2021 3:57:28 AM |
| Surr: DNOP                                       | 91.2   | 70-130 |      | %Rec  | 1  | 8/3/2021 3:57:28 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>mb</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8    |      | mg/Kg | 1  | 8/3/2021 3:12:00 AM |
| Surr: BFB                                        | 105    | 70-130 |      | %Rec  | 1  | 8/3/2021 3:12:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>mb</b>  |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 8/3/2021 3:12:00 AM |
| Toluene                                          | ND     | 0.048  |      | mg/Kg | 1  | 8/3/2021 3:12:00 AM |
| Ethylbenzene                                     | ND     | 0.048  |      | mg/Kg | 1  | 8/3/2021 3:12:00 AM |
| Xylenes, Total                                   | ND     | 0.096  |      | mg/Kg | 1  | 8/3/2021 3:12:00 AM |
| Surr: 4-Bromofluorobenzene                       | 93.3   | 70-130 |      | %Rec  | 1  | 8/3/2021 3:12:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>  |
| Chloride                                         | 1200   | 59     |      | mg/Kg | 20 | 8/5/2021 8:23:05 AM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2107F55**

Date Reported: **8/9/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH21-12 0.5

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 7/28/2021 8:40:00 AM

**Lab ID:** 2107F55-006

**Matrix:** SOIL

**Received Date:** 7/30/2021 8:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.1    |      | mg/Kg | 1  | 8/3/2021 4:21:50 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 45     |      | mg/Kg | 1  | 8/3/2021 4:21:50 AM |
| Surr: DNOP                                       | 89.6   | 70-130 |      | %Rec  | 1  | 8/3/2021 4:21:50 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>mb</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 8/3/2021 3:32:00 AM |
| Surr: BFB                                        | 106    | 70-130 |      | %Rec  | 1  | 8/3/2021 3:32:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>mb</b>  |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 8/3/2021 3:32:00 AM |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 3:32:00 AM |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 3:32:00 AM |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 8/3/2021 3:32:00 AM |
| Surr: 4-Bromofluorobenzene                       | 94.6   | 70-130 |      | %Rec  | 1  | 8/3/2021 3:32:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>  |
| Chloride                                         | 140    | 61     |      | mg/Kg | 20 | 8/5/2021 8:35:29 AM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2107F55**

Date Reported: **8/9/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH21-15 0.5'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 7/28/2021 8:45:00 AM

**Lab ID:** 2107F55-007

**Matrix:** SOIL

**Received Date:** 7/30/2021 8:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.2    |      | mg/Kg | 1  | 8/3/2021 4:46:05 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46     |      | mg/Kg | 1  | 8/3/2021 4:46:05 AM |
| Surr: DNOP                                       | 89.8   | 70-130 |      | %Rec  | 1  | 8/3/2021 4:46:05 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>mb</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 8/3/2021 3:52:00 AM |
| Surr: BFB                                        | 108    | 70-130 |      | %Rec  | 1  | 8/3/2021 3:52:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>mb</b>  |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 8/3/2021 3:52:00 AM |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 3:52:00 AM |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 3:52:00 AM |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 8/3/2021 3:52:00 AM |
| Surr: 4-Bromofluorobenzene                       | 97.0   | 70-130 |      | %Rec  | 1  | 8/3/2021 3:52:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>  |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 8/4/2021 3:47:38 PM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2107F55**

Date Reported: **8/9/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH21-19 0.5'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 7/28/2021 8:50:00 AM

**Lab ID:** 2107F55-008

**Matrix:** SOIL

**Received Date:** 7/30/2021 8:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.9    |      | mg/Kg | 1  | 8/3/2021 5:10:24 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 50     |      | mg/Kg | 1  | 8/3/2021 5:10:24 AM |
| Surr: DNOP                                       | 94.5   | 70-130 |      | %Rec  | 1  | 8/3/2021 5:10:24 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>mb</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 8/3/2021 4:12:00 AM |
| Surr: BFB                                        | 109    | 70-130 |      | %Rec  | 1  | 8/3/2021 4:12:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>mb</b>  |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 8/3/2021 4:12:00 AM |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 4:12:00 AM |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 4:12:00 AM |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 8/3/2021 4:12:00 AM |
| Surr: 4-Bromofluorobenzene                       | 94.7   | 70-130 |      | %Rec  | 1  | 8/3/2021 4:12:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>  |
| Chloride                                         | 77     | 60     |      | mg/Kg | 20 | 8/4/2021 4:00:02 PM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2107F55**

Date Reported: **8/9/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH21-21 0.5'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 7/28/2021 8:55:00 AM

**Lab ID:** 2107F55-009

**Matrix:** SOIL

**Received Date:** 7/30/2021 8:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.9    |      | mg/Kg | 1  | 8/3/2021 5:34:37 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 49     |      | mg/Kg | 1  | 8/3/2021 5:34:37 AM |
| Surr: DNOP                                       | 110    | 70-130 |      | %Rec  | 1  | 8/3/2021 5:34:37 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>mb</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 8/3/2021 4:32:00 AM |
| Surr: BFB                                        | 104    | 70-130 |      | %Rec  | 1  | 8/3/2021 4:32:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>mb</b>  |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 8/3/2021 4:32:00 AM |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 4:32:00 AM |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 4:32:00 AM |
| Xylenes, Total                                   | ND     | 0.099  |      | mg/Kg | 1  | 8/3/2021 4:32:00 AM |
| Surr: 4-Bromofluorobenzene                       | 94.0   | 70-130 |      | %Rec  | 1  | 8/3/2021 4:32:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>  |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 8/4/2021 4:12:27 PM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2107F55**

Date Reported: **8/9/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH21-22 0.5'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 7/28/2021 9:00:00 AM

**Lab ID:** 2107F55-010

**Matrix:** SOIL

**Received Date:** 7/30/2021 8:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.8    |      | mg/Kg | 1  | 8/3/2021 5:58:52 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 49     |      | mg/Kg | 1  | 8/3/2021 5:58:52 AM |
| Surr: DNOP                                       | 94.0   | 70-130 |      | %Rec  | 1  | 8/3/2021 5:58:52 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>mb</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 8/3/2021 4:52:00 AM |
| Surr: BFB                                        | 106    | 70-130 |      | %Rec  | 1  | 8/3/2021 4:52:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>mb</b>  |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 8/3/2021 4:52:00 AM |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 4:52:00 AM |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 4:52:00 AM |
| Xylenes, Total                                   | ND     | 0.097  |      | mg/Kg | 1  | 8/3/2021 4:52:00 AM |
| Surr: 4-Bromofluorobenzene                       | 94.0   | 70-130 |      | %Rec  | 1  | 8/3/2021 4:52:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>  |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 8/4/2021 4:24:52 PM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2107F55**

Date Reported: **8/9/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH21-23 0.5'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 7/28/2021 9:05:00 AM

**Lab ID:** 2107F55-011

**Matrix:** SOIL

**Received Date:** 7/30/2021 8:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.5    |      | mg/Kg | 1  | 8/3/2021 6:23:05 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 48     |      | mg/Kg | 1  | 8/3/2021 6:23:05 AM |
| Surr: DNOP                                       | 103    | 70-130 |      | %Rec  | 1  | 8/3/2021 6:23:05 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>mb</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 8/3/2021 5:12:00 AM |
| Surr: BFB                                        | 106    | 70-130 |      | %Rec  | 1  | 8/3/2021 5:12:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>mb</b>  |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 8/3/2021 5:12:00 AM |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 5:12:00 AM |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 5:12:00 AM |
| Xylenes, Total                                   | ND     | 0.097  |      | mg/Kg | 1  | 8/3/2021 5:12:00 AM |
| Surr: 4-Bromofluorobenzene                       | 93.1   | 70-130 |      | %Rec  | 1  | 8/3/2021 5:12:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>  |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 8/4/2021 4:37:16 PM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2107F55**

Date Reported: **8/9/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH21-24

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 7/28/2021 9:10:00 AM

**Lab ID:** 2107F55-012

**Matrix:** SOIL

**Received Date:** 7/30/2021 8:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.6    |      | mg/Kg | 1  | 8/3/2021 7:11:47 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 48     |      | mg/Kg | 1  | 8/3/2021 7:11:47 AM |
| Surr: DNOP                                       | 106    | 70-130 |      | %Rec  | 1  | 8/3/2021 7:11:47 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>mb</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 5.0    |      | mg/Kg | 1  | 8/3/2021 5:32:00 AM |
| Surr: BFB                                        | 103    | 70-130 |      | %Rec  | 1  | 8/3/2021 5:32:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>mb</b>  |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 8/3/2021 5:32:00 AM |
| Toluene                                          | ND     | 0.050  |      | mg/Kg | 1  | 8/3/2021 5:32:00 AM |
| Ethylbenzene                                     | ND     | 0.050  |      | mg/Kg | 1  | 8/3/2021 5:32:00 AM |
| Xylenes, Total                                   | ND     | 0.099  |      | mg/Kg | 1  | 8/3/2021 5:32:00 AM |
| Surr: 4-Bromofluorobenzene                       | 90.1   | 70-130 |      | %Rec  | 1  | 8/3/2021 5:32:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>  |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 8/4/2021 4:49:41 PM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2107F55**

Date Reported: **8/9/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH21-25 0.5'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 7/28/2021 9:15:00 AM

**Lab ID:** 2107F55-013

**Matrix:** SOIL

**Received Date:** 7/30/2021 8:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.7    |      | mg/Kg | 1  | 8/4/2021 2:24:27 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48     |      | mg/Kg | 1  | 8/4/2021 2:24:27 PM |
| Surr: DNOP                                       | 88.0   | 70-130 |      | %Rec  | 1  | 8/4/2021 2:24:27 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>mb</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 8/3/2021 6:32:00 AM |
| Surr: BFB                                        | 98.0   | 70-130 |      | %Rec  | 1  | 8/3/2021 6:32:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>mb</b>  |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 8/3/2021 6:32:00 AM |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 6:32:00 AM |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 6:32:00 AM |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 8/3/2021 6:32:00 AM |
| Surr: 4-Bromofluorobenzene                       | 86.8   | 70-130 |      | %Rec  | 1  | 8/3/2021 6:32:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>  |
| Chloride                                         | 1700   | 60     |      | mg/Kg | 20 | 8/4/2021 5:26:54 PM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2107F55**

Date Reported: **8/9/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH21-30 0.5'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 7/28/2021 9:20:00 AM

**Lab ID:** 2107F55-014

**Matrix:** SOIL

**Received Date:** 7/30/2021 8:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>  |
| Diesel Range Organics (DRO)                      | ND     | 10     |      | mg/Kg | 1  | 8/4/2021 3:01:22 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 51     |      | mg/Kg | 1  | 8/4/2021 3:01:22 PM |
| Surr: DNOP                                       | 95.4   | 70-130 |      | %Rec  | 1  | 8/4/2021 3:01:22 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 8/3/2021 2:29:54 PM |
| Surr: BFB                                        | 119    | 70-130 |      | %Rec  | 1  | 8/3/2021 2:29:54 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>NSB</b> |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 8/3/2021 2:29:54 PM |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 2:29:54 PM |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 8/3/2021 2:29:54 PM |
| Xylenes, Total                                   | ND     | 0.097  |      | mg/Kg | 1  | 8/3/2021 2:29:54 PM |
| Surr: 4-Bromofluorobenzene                       | 108    | 70-130 |      | %Rec  | 1  | 8/3/2021 2:29:54 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>  |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 8/4/2021 5:39:18 PM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2107F55

09-Aug-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>MB-61774</b> | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|----------------------------|--------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>      | Batch ID: <b>61774</b>         | RunNo: <b>80305</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>8/4/2021</b> | Analysis Date: <b>8/4/2021</b> | SeqNo: <b>2829495</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                    | Result                         | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                   | ND                             | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-61774</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>61774</b>         | RunNo: <b>80305</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>8/4/2021</b>  | Analysis Date: <b>8/4/2021</b> | SeqNo: <b>2829496</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                         | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                             | 1.5                                       | 15.00               | 0           | 95.7 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-61769</b> | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|----------------------------|--------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>      | Batch ID: <b>61769</b>         | RunNo: <b>80305</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>8/4/2021</b> | Analysis Date: <b>8/4/2021</b> | SeqNo: <b>2829527</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                    | Result                         | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                   | ND                             | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-61769</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>61769</b>         | RunNo: <b>80305</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>8/4/2021</b>  | Analysis Date: <b>8/4/2021</b> | SeqNo: <b>2829528</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                         | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 15                             | 1.5                                       | 15.00               | 0           | 96.9 | 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2107F55

09-Aug-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>LCS-61692</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>61692</b>         | RunNo: <b>80244</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>7/31/2021</b> | Analysis Date: <b>8/2/2021</b> | SeqNo: <b>2827630</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                         | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 57                             | 10                                                         | 50.00               | 0           | 114  | 68.9     | 141       |      |          |      |
| Surr: DNOP                  | 5.1                            |                                                            | 5.000               |             | 103  | 70       | 130       |      |          |      |

| Sample ID: <b>MB-61692</b>     | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|--------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>61692</b>         | RunNo: <b>80244</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>7/31/2021</b>    | Analysis Date: <b>8/2/2021</b> | SeqNo: <b>2827632</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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                     | 9.3                            |                                                            | 10.00               |             | 93.5 | 70       | 130       |      |          |      |

| Sample ID: <b>MB-61741</b> | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|----------------------------|--------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>      | Batch ID: <b>61741</b>         | RunNo: <b>80306</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>8/3/2021</b> | Analysis Date: <b>8/4/2021</b> | SeqNo: <b>2829078</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                    | Result                         | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                 | 9.2                            |                                                            | 10.00              |             | 92.2 | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-61741</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>61741</b>         | RunNo: <b>80306</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>8/3/2021</b>  | Analysis Date: <b>8/4/2021</b> | SeqNo: <b>2829100</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| 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: <b>MB-61711</b>     | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|--------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>61711</b>         | RunNo: <b>80306</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>8/2/2021</b>     | Analysis Date: <b>8/4/2021</b> | SeqNo: <b>2829163</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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                     | 8.3                            |                                                            | 10.00               |             | 83.4 | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-61711</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>61711</b>         | RunNo: <b>80306</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>8/2/2021</b>  | Analysis Date: <b>8/4/2021</b> | SeqNo: <b>2829164</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2107F55

09-Aug-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>LCS-61711</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>61711</b>         | RunNo: <b>80306</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>8/2/2021</b>  | Analysis Date: <b>8/4/2021</b> | SeqNo: <b>2829164</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                         | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 40                             | 10                                                         | 50.00               | 0           | 80.3 | 68.9     | 141       |      |          |      |
| Surr: DNOP                  | 4.0                            |                                                            | 5.000               |             | 79.8 | 70       | 130       |      |          |      |

| Sample ID: <b>2107F55-013AMS</b> | SampType: <b>MS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|--------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH21-25 0.5'</b>   | Batch ID: <b>61711</b>         | RunNo: <b>80306</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>8/2/2021</b>       | Analysis Date: <b>8/4/2021</b> | SeqNo: <b>2830515</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                         | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 38                             | 9.4                                                        | 46.95               | 7.626       | 65.1 | 15       | 184       |      |          |      |
| Surr: DNOP                       | 4.2                            |                                                            | 4.695               |             | 88.7 | 70       | 130       |      |          |      |

| Sample ID: <b>2107F55-013AMSD</b> | SampType: <b>MSD</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|--------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH21-25 0.5'</b>    | Batch ID: <b>61711</b>         | RunNo: <b>80306</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>8/2/2021</b>        | Analysis Date: <b>8/4/2021</b> | SeqNo: <b>2830516</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                         | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 41                             | 9.3                                                        | 46.55               | 7.626       | 71.6 | 15       | 184       | 6.98 | 23.9     |      |
| Surr: DNOP                        | 4.3                            |                                                            | 4.655               |             | 91.8 | 70       | 130       | 0    | 0        |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2107F55

09-Aug-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>mb-61690</b>    | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|--------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>61690</b>         | RunNo: <b>80254</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>7/31/2021</b>   | Analysis Date: <b>8/2/2021</b> | SeqNo: <b>2827274</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                         | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                             | 5.0                                               |                     |             |      |          |           |      |          |      |
| Surr: BFB                     | 960                            |                                                   | 1000                |             | 95.8 | 70       | 130       |      |          |      |

| Sample ID: <b>lcs-61690</b>   | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|--------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>61690</b>         | RunNo: <b>80254</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>7/31/2021</b>   | Analysis Date: <b>8/2/2021</b> | SeqNo: <b>2827276</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                         | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 28                             | 5.0                                               | 25.00               | 0           | 111  | 78.6     | 131       |      |          |      |
| Surr: BFB                     | 1100                           |                                                   | 1000                |             | 107  | 70       | 130       |      |          |      |

| Sample ID: <b>mb-61694</b>    | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|--------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>61694</b>         | RunNo: <b>80282</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>7/31/2021</b>   | Analysis Date: <b>8/3/2021</b> | SeqNo: <b>2828195</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                         | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                             | 5.0                                               |                     |             |      |          |           |      |          |      |
| Surr: BFB                     | 1100                           |                                                   | 1000                |             | 114  | 70       | 130       |      |          |      |

| Sample ID: <b>lcs-61694</b>   | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|--------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>61694</b>         | RunNo: <b>80282</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>7/31/2021</b>   | Analysis Date: <b>8/3/2021</b> | SeqNo: <b>2828196</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                         | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 28                             | 5.0                                               | 25.00               | 0           | 114  | 78.6     | 131       |      |          |      |
| Surr: BFB                     | 1300                           |                                                   | 1000                |             | 126  | 70       | 130       |      |          |      |

| Sample ID: <b>2107f55-014ams</b> | SampType: <b>MS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|--------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH21-30 0.5'</b>   | Batch ID: <b>61694</b>         | RunNo: <b>80282</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>7/31/2021</b>      | Analysis Date: <b>8/3/2021</b> | SeqNo: <b>2828198</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                         | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 26                             | 4.9                                               | 24.56               | 0           | 108  | 61.3     | 114       |      |          |      |
| Surr: BFB                        | 1300                           |                                                   | 982.3               |             | 130  | 70       | 130       |      |          |      |

| Sample ID: <b>2107f55-014amsd</b> | SampType: <b>MSD</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|--------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH21-30 0.5'</b>    | Batch ID: <b>61694</b>         | RunNo: <b>80282</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>7/31/2021</b>       | Analysis Date: <b>8/3/2021</b> | SeqNo: <b>2828199</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2107F55

09-Aug-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>2107f55-014amsd</b> | SampType: <b>MSD</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |      |          |      |
|-----------------------------------|--------------------------------|---------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH21-30 0.5'</b>    | Batch ID: <b>61694</b>         | RunNo: <b>80282</b>                               |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/31/2021</b>       | Analysis Date: <b>8/3/2021</b> | SeqNo: <b>2828199</b> Units: <b>mg/Kg</b>         |           |             |      |          |           |      |          |      |
| Analyte                           | Result                         | PQL                                               | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 26                             | 4.8                                               | 23.85     | 0           | 108  | 61.3     | 114       | 2.90 | 20       |      |
| Surr: BFB                         | 1200                           |                                                   | 954.2     |             | 127  | 70       | 130       | 0    | 0        |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2107F55

09-Aug-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>mb-61690</b>  | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>61690</b>         | RunNo: <b>80254</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>7/31/2021</b> | Analysis Date: <b>8/2/2021</b> | SeqNo: <b>2827364</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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  | 0.84                           |                                              | 1.000               |             | 84.2 | 70       | 130       |      |          |      |

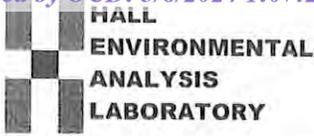
| Sample ID: <b>lcs-61690</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>61690</b>         | RunNo: <b>80254</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>7/31/2021</b> | Analysis Date: <b>8/2/2021</b> | SeqNo: <b>2827366</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                         | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.97                           | 0.025                                        | 1.000               | 0           | 96.8 | 80       | 120       |      |          |      |
| Toluene                     | 0.98                           | 0.050                                        | 1.000               | 0           | 97.5 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.99                           | 0.050                                        | 1.000               | 0           | 98.7 | 80       | 120       |      |          |      |
| Xylenes, Total              | 3.0                            | 0.10                                         | 3.000               | 0           | 99.1 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.85                           |                                              | 1.000               |             | 85.0 | 70       | 130       |      |          |      |

| Sample ID: <b>mb-61694</b>  | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>61694</b>         | RunNo: <b>80282</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>7/31/2021</b> | Analysis Date: <b>8/3/2021</b> | SeqNo: <b>2828239</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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               |             | 103  | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-61694</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>61694</b>         | RunNo: <b>80282</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>7/31/2021</b> | Analysis Date: <b>8/3/2021</b> | SeqNo: <b>2828240</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                         | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.91                           | 0.025                                        | 1.000               | 0           | 91.0 | 80       | 120       |      |          |      |
| Toluene                     | 0.92                           | 0.050                                        | 1.000               | 0           | 91.9 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.92                           | 0.050                                        | 1.000               | 0           | 91.6 | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.8                            | 0.10                                         | 3.000               | 0           | 92.1 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.1                            |                                              | 1.000               |             | 108  | 70       | 130       |      |          |      |

**Qualifiers:**

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



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: Devon Energy Work Order Number: 2107F55 RcptNo: 1

Received By: Sean Livingston 7/30/2021 8:00:00 AM

Signature of Sean Livingston

Completed By: Sean Livingston 7/30/2021 9:26:57 AM

Signature of Sean Livingston

Reviewed By: JR 7/30/21

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: SPA 7.30.21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: [ ] Date: [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.

### Chain-of-Custody Record

Client: Devon

Turn-Around Time: 5 day

Standard  Rush

Project Name: North Pine Cold 8 Fed 6

Project #: 21E-02816

Project Manager: Brandon Scher

Sampler: J.B

On Ice:  Yes  No

# of Coolers: 2

Cooler Temp (including CF): 1.5 ± 0.5 = 1.5 (°C)

Container Type and # 402 ice

Preservative Type ice

HEAL No. Z07F55

Relinquished by: Wu Date: 3/21/20

Relinquished by: See courier Date: 7/30/21 8:00

| Date | Time | Matrix | Sample Name  | Container Type and # | Preservative Type | HEAL No. |
|------|------|--------|--------------|----------------------|-------------------|----------|
| 7-28 | 8:10 | soil   | BH21-06 0.5' | 402                  | ice               | 001      |
|      | 8:15 |        | BH21-06 1'   |                      |                   | 002      |
|      | 8:25 |        | BH21-08 0.5' |                      |                   | 003      |
|      | 8:30 |        | BH21-08 1'   |                      |                   | 004      |
|      | 8:35 |        | BH21-07 0.5' |                      |                   | 005      |
|      | 8:40 |        | BH21-12 0.5' |                      |                   | 006      |
|      | 8:45 |        | BH21-15 0.5' |                      |                   | 007      |
|      | 8:50 |        | BH21-19 0.5' |                      |                   | 008      |
|      | 8:55 |        | BH21-21 0.5' |                      |                   | 009      |
|      | 9:00 |        | BH21-22 0.5' |                      |                   | 010      |
|      | 9:05 |        | BH21-23 0.5' |                      |                   | 011      |
|      | 9:10 |        | BH21-24      |                      |                   | 012      |

Received by: Wu Date: 3/21/20

Received by: See courier Date: 7/30/21 8:00



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
 www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

#### Analysis Request

|                                                                |                                                     |                                                     |                                             |                                                   |                                        |                                                                                                                                                                                        |                                     |                                          |                                                          |
|----------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|---------------------------------------------|---------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------|----------------------------------------------------------|
| <input checked="" type="checkbox"/> BTEX / MTBE / TMB's (8021) | <input type="checkbox"/> PH 8015D (GRO / DRO / MRO) | <input type="checkbox"/> 8081 Pesticides/8082 PCB's | <input type="checkbox"/> EDB (Method 504.1) | <input type="checkbox"/> PAHs by 8310 or 8270SIMS | <input type="checkbox"/> RCRA 8 Metals | <input type="checkbox"/> Cl <sup>-</sup> , Br <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , NO <sub>2</sub> <sup>-</sup> , PO <sub>4</sub> <sup>-</sup> , SO <sub>4</sub> <sup>-</sup> | <input type="checkbox"/> 8260 (VOA) | <input type="checkbox"/> 8270 (Semi-VOA) | <input type="checkbox"/> Total Coliform (Present/Absent) |
|----------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|---------------------------------------------|---------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------|----------------------------------------------------------|

Remarks:

*CC: Brandon Scher / John Hurt*





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

December 21, 2022

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: North Pure Gold 8 Federal 006 East

OrderNo.: 2212582

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 13 sample(s) on 12/9/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2212582**

Date Reported: **12/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-31 0'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 12/7/2022 10:55:00 AM

**Lab ID:** 2212582-001

**Matrix:** SOIL

**Received Date:** 12/9/2022 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>    |
| Diesel Range Organics (DRO)                      | ND     | 15       |      | mg/Kg | 1  | 12/16/2022 7:21:50 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 12/16/2022 7:21:50 AM  |
| Surr: DNOP                                       | 124    | 21-129   |      | %Rec  | 1  | 12/16/2022 7:21:50 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 12/14/2022 10:10:31 AM |
| Surr: BFB                                        | 84.8   | 37.7-212 |      | %Rec  | 1  | 12/14/2022 10:10:31 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/14/2022 10:10:31 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 12/14/2022 10:10:31 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 12/14/2022 10:10:31 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 12/14/2022 10:10:31 AM |
| Surr: 4-Bromofluorobenzene                       | 85.1   | 70-130   |      | %Rec  | 1  | 12/14/2022 10:10:31 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/16/2022 1:50:56 AM  |

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

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

**Analytical Report**

Lab Order **2212582**

Date Reported: **12/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-31 2'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 12/7/2022 11:00:00 AM

**Lab ID:** 2212582-002

**Matrix:** SOIL

**Received Date:** 12/9/2022 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>    |
| Diesel Range Organics (DRO)                      | ND     | 15       |      | mg/Kg | 1  | 12/16/2022 7:32:23 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 12/16/2022 7:32:23 AM  |
| Surr: DNOP                                       | 133    | 21-129   | S    | %Rec  | 1  | 12/16/2022 7:32:23 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/14/2022 10:33:57 AM |
| Surr: BFB                                        | 87.2   | 37.7-212 |      | %Rec  | 1  | 12/14/2022 10:33:57 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/14/2022 10:33:57 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 10:33:57 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 10:33:57 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 12/14/2022 10:33:57 AM |
| Surr: 4-Bromofluorobenzene                       | 87.5   | 70-130   |      | %Rec  | 1  | 12/14/2022 10:33:57 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/16/2022 2:03:20 AM  |

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

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

**Analytical Report**

Lab Order **2212582**

Date Reported: **12/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-32 0'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 12/7/2022 11:15:00 AM

**Lab ID:** 2212582-003

**Matrix:** SOIL

**Received Date:** 12/9/2022 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>    |
| Diesel Range Organics (DRO)                      | ND     | 15       |      | mg/Kg | 1  | 12/16/2022 7:42:54 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 12/16/2022 7:42:54 AM  |
| Surr: DNOP                                       | 116    | 21-129   |      | %Rec  | 1  | 12/16/2022 7:42:54 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/14/2022 10:57:22 AM |
| Surr: BFB                                        | 88.6   | 37.7-212 |      | %Rec  | 1  | 12/14/2022 10:57:22 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/14/2022 10:57:22 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 10:57:22 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 10:57:22 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 12/14/2022 10:57:22 AM |
| Surr: 4-Bromofluorobenzene                       | 90.2   | 70-130   |      | %Rec  | 1  | 12/14/2022 10:57:22 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | 1200   | 59       |      | mg/Kg | 20 | 12/16/2022 2:15:45 AM  |

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

**Qualifiers:**

- |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>* Value exceeds Maximum Contaminant Level.</li> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quantitative Limit</li> <li>S % Recovery outside of standard limits. If undiluted results may be estimated.</li> </ul> | <ul style="list-style-type: none"> <li>B Analyte detected in the associated Method Blank</li> <li>E Above Quantitation Range/Estimated Value</li> <li>J Analyte detected below quantitation limits</li> <li>P Sample pH Not In Range</li> <li>RL Reporting Limit</li> </ul> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Analytical Report**

Lab Order **2212582**

Date Reported: **12/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-32 2'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 12/7/2022 11:20:00 AM

**Lab ID:** 2212582-004

**Matrix:** SOIL

**Received Date:** 12/9/2022 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/16/2022 7:53:26 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 12/16/2022 7:53:26 AM  |
| Surr: DNOP                                       | 126    | 21-129   |      | %Rec  | 1  | 12/16/2022 7:53:26 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/14/2022 11:20:56 AM |
| Surr: BFB                                        | 86.6   | 37.7-212 |      | %Rec  | 1  | 12/14/2022 11:20:56 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/14/2022 11:20:56 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 11:20:56 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 11:20:56 AM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 12/14/2022 11:20:56 AM |
| Surr: 4-Bromofluorobenzene                       | 85.9   | 70-130   |      | %Rec  | 1  | 12/14/2022 11:20:56 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | 610    | 60       |      | mg/Kg | 20 | 12/16/2022 2:28:10 AM  |

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

**Qualifiers:**

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

**Analytical Report**

Lab Order **2212582**

Date Reported: **12/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-32 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 12/7/2022 11:35:00 AM

**Lab ID:** 2212582-005

**Matrix:** SOIL

**Received Date:** 12/9/2022 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>    |
| Diesel Range Organics (DRO)                      | ND     | 15       |      | mg/Kg | 1  | 12/16/2022 8:04:01 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 12/16/2022 8:04:01 AM  |
| Surr: DNOP                                       | 122    | 21-129   |      | %Rec  | 1  | 12/16/2022 8:04:01 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 12/14/2022 11:44:26 AM |
| Surr: BFB                                        | 86.0   | 37.7-212 |      | %Rec  | 1  | 12/14/2022 11:44:26 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/14/2022 11:44:26 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 12/14/2022 11:44:26 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 12/14/2022 11:44:26 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 12/14/2022 11:44:26 AM |
| Surr: 4-Bromofluorobenzene                       | 86.2   | 70-130   |      | %Rec  | 1  | 12/14/2022 11:44:26 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | 740    | 60       |      | mg/Kg | 20 | 12/16/2022 2:40:34 AM  |

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

**Qualifiers:**

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

**Analytical Report**

Lab Order **2212582**

Date Reported: **12/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-33 0'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 12/7/2022 11:45:00 AM

**Lab ID:** 2212582-006

**Matrix:** SOIL

**Received Date:** 12/9/2022 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>    |
| Diesel Range Organics (DRO)                      | ND     | 13       |      | mg/Kg | 1  | 12/16/2022 8:14:35 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 43       |      | mg/Kg | 1  | 12/16/2022 8:14:35 AM  |
| Surr: DNOP                                       | 145    | 21-129   | S    | %Rec  | 1  | 12/16/2022 8:14:35 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/14/2022 12:07:59 PM |
| Surr: BFB                                        | 88.2   | 37.7-212 |      | %Rec  | 1  | 12/14/2022 12:07:59 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/14/2022 12:07:59 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 12:07:59 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 12:07:59 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 12/14/2022 12:07:59 PM |
| Surr: 4-Bromofluorobenzene                       | 86.5   | 70-130   |      | %Rec  | 1  | 12/14/2022 12:07:59 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | 100    | 60       |      | mg/Kg | 20 | 12/16/2022 2:52:59 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 Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

**Analytical Report**

Lab Order **2212582**

Date Reported: **12/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-33 2'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 12/7/2022 11:55:00 AM

**Lab ID:** 2212582-007

**Matrix:** SOIL

**Received Date:** 12/9/2022 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/16/2022 8:25:32 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 12/16/2022 8:25:32 AM  |
| Surr: DNOP                                       | 134    | 21-129   | S    | %Rec  | 1  | 12/16/2022 8:25:32 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/14/2022 12:31:34 PM |
| Surr: BFB                                        | 89.1   | 37.7-212 |      | %Rec  | 1  | 12/14/2022 12:31:34 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/14/2022 12:31:34 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 12:31:34 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 12:31:34 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 12/14/2022 12:31:34 PM |
| Surr: 4-Bromofluorobenzene                       | 87.9   | 70-130   |      | %Rec  | 1  | 12/14/2022 12:31:34 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | 85     | 60       |      | mg/Kg | 20 | 12/16/2022 3:05:23 AM  |

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

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

**Analytical Report**

Lab Order **2212582**

Date Reported: **12/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-34 0'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 12/7/2022 12:05:00 PM

**Lab ID:** 2212582-008

**Matrix:** SOIL

**Received Date:** 12/9/2022 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>    |
| Diesel Range Organics (DRO)                      | 16     | 15       |      | mg/Kg | 1  | 12/16/2022 8:36:04 AM  |
| Motor Oil Range Organics (MRO)                   | 300    | 49       |      | mg/Kg | 1  | 12/16/2022 8:36:04 AM  |
| Surr: DNOP                                       | 117    | 21-129   |      | %Rec  | 1  | 12/16/2022 8:36:04 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 12/14/2022 12:55:05 PM |
| Surr: BFB                                        | 85.1   | 37.7-212 |      | %Rec  | 1  | 12/14/2022 12:55:05 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/14/2022 12:55:05 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 12/14/2022 12:55:05 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 12/14/2022 12:55:05 PM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 12/14/2022 12:55:05 PM |
| Surr: 4-Bromofluorobenzene                       | 84.2   | 70-130   |      | %Rec  | 1  | 12/14/2022 12:55:05 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/16/2022 3:17:48 AM  |

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

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

**Analytical Report**

Lab Order **2212582**

Date Reported: **12/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-34 2'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 12/7/2022 12:10:00 PM

**Lab ID:** 2212582-009

**Matrix:** SOIL

**Received Date:** 12/9/2022 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/16/2022 2:01:16 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 12/16/2022 2:01:16 PM  |
| Surr: DNOP                                       | 102    | 21-129   |      | %Rec  | 1  | 12/16/2022 2:01:16 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/14/2022 1:18:44 PM  |
| Surr: BFB                                        | 89.9   | 37.7-212 |      | %Rec  | 1  | 12/14/2022 1:18:44 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>RAA</b>    |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/14/2022 1:18:44 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 1:18:44 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 1:18:44 PM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 12/14/2022 1:18:44 PM  |
| Surr: 4-Bromofluorobenzene                       | 89.4   | 70-130   |      | %Rec  | 1  | 12/14/2022 1:18:44 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/16/2022 10:00:08 AM |

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

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

**Analytical Report**

Lab Order **2212582**

Date Reported: **12/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-35 0'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 12/7/2022 12:45:00 PM

**Lab ID:** 2212582-010

**Matrix:** SOIL

**Received Date:** 12/9/2022 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/14/2022 2:57:41 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 12/14/2022 2:57:41 PM  |
| Surr: DNOP                                       | 89.8   | 21-129   |      | %Rec  | 1  | 12/14/2022 2:57:41 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/14/2022 12:44:00 PM |
| Surr: BFB                                        | 100    | 37.7-212 |      | %Rec  | 1  | 12/14/2022 12:44:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>    |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/14/2022 12:44:00 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 12:44:00 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 12:44:00 PM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 12/14/2022 12:44:00 PM |
| Surr: 4-Bromofluorobenzene                       | 103    | 70-130   |      | %Rec  | 1  | 12/14/2022 12:44:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/16/2022 10:12:32 AM |

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

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

**Analytical Report**

Lab Order **2212582**

Date Reported: **12/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-35 2'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 12/7/2022 12:50:00 PM

**Lab ID:** 2212582-011

**Matrix:** SOIL

**Received Date:** 12/9/2022 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/14/2022 3:11:52 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 12/14/2022 3:11:52 PM  |
| Surr: DNOP                                       | 117    | 21-129   |      | %Rec  | 1  | 12/14/2022 3:11:52 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/14/2022 4:14:00 PM  |
| Surr: BFB                                        | 93.3   | 37.7-212 |      | %Rec  | 1  | 12/14/2022 4:14:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>    |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/14/2022 4:14:00 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 4:14:00 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 4:14:00 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 12/14/2022 4:14:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 98.8   | 70-130   |      | %Rec  | 1  | 12/14/2022 4:14:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/16/2022 10:24:57 AM |

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

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

**Analytical Report**

Lab Order **2212582**

Date Reported: **12/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-35 0'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 12/7/2022 2:00:00 PM

**Lab ID:** 2212582-012

**Matrix:** SOIL

**Received Date:** 12/9/2022 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/14/2022 3:25:59 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 12/14/2022 3:25:59 PM  |
| Surr: DNOP                                       | 92.0   | 21-129   |      | %Rec  | 1  | 12/14/2022 3:25:59 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 12/14/2022 4:34:00 PM  |
| Surr: BFB                                        | 99.3   | 37.7-212 |      | %Rec  | 1  | 12/14/2022 4:34:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>    |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/14/2022 4:34:00 PM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 12/14/2022 4:34:00 PM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 12/14/2022 4:34:00 PM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 12/14/2022 4:34:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 103    | 70-130   |      | %Rec  | 1  | 12/14/2022 4:34:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/16/2022 10:37:21 AM |

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

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

**Analytical Report**

Lab Order **2212582**

Date Reported: **12/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-35 2'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 12/7/2022 2:05:00 PM

**Lab ID:** 2212582-013

**Matrix:** SOIL

**Received Date:** 12/9/2022 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>    |
| Diesel Range Organics (DRO)                      | ND     | 13       |      | mg/Kg | 1  | 12/14/2022 3:40:07 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 44       |      | mg/Kg | 1  | 12/14/2022 3:40:07 PM  |
| Surr: DNOP                                       | 95.9   | 21-129   |      | %Rec  | 1  | 12/14/2022 3:40:07 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/14/2022 4:54:00 PM  |
| Surr: BFB                                        | 98.0   | 37.7-212 |      | %Rec  | 1  | 12/14/2022 4:54:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>    |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/14/2022 4:54:00 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 4:54:00 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/14/2022 4:54:00 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 12/14/2022 4:54:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 105    | 70-130   |      | %Rec  | 1  | 12/14/2022 4:54:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/16/2022 10:49:45 AM |

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2212582

21-Dec-22

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>MB-72119</b>   | SampType: <b>mblk</b>            |     | TestCode: <b>EPA Method 300.0: Anions</b> |             |                     |          |           |      |          |      |
|------------------------------|----------------------------------|-----|-------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>        | Batch ID: <b>72119</b>           |     | RunNo: <b>93343</b>                       |             |                     |          |           |      |          |      |
| Prep Date: <b>12/15/2022</b> | Analysis Date: <b>12/15/2022</b> |     | SeqNo: <b>3365242</b>                     |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                      | Result                           | PQL | SPK value                                 | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                     | ND                               | 1.5 |                                           |             |                     |          |           |      |          |      |

| Sample ID: <b>LCS-72119</b>  | SampType: <b>ics</b>             |     | TestCode: <b>EPA Method 300.0: Anions</b> |             |                     |          |           |      |          |      |
|------------------------------|----------------------------------|-----|-------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>       | Batch ID: <b>72119</b>           |     | RunNo: <b>93343</b>                       |             |                     |          |           |      |          |      |
| Prep Date: <b>12/15/2022</b> | Analysis Date: <b>12/15/2022</b> |     | SeqNo: <b>3365243</b>                     |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                      | Result                           | PQL | SPK value                                 | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                     | 14                               | 1.5 | 15.00                                     | 0           | 93.6                | 90       | 110       |      |          |      |

| Sample ID: <b>MB-72139</b>   | SampType: <b>mblk</b>            |     | TestCode: <b>EPA Method 300.0: Anions</b> |             |                     |          |           |      |          |      |
|------------------------------|----------------------------------|-----|-------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>        | Batch ID: <b>72139</b>           |     | RunNo: <b>93360</b>                       |             |                     |          |           |      |          |      |
| Prep Date: <b>12/16/2022</b> | Analysis Date: <b>12/16/2022</b> |     | SeqNo: <b>3367761</b>                     |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                      | Result                           | PQL | SPK value                                 | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                     | ND                               | 1.5 |                                           |             |                     |          |           |      |          |      |

| Sample ID: <b>LCS-72139</b>  | SampType: <b>ics</b>             |     | TestCode: <b>EPA Method 300.0: Anions</b> |             |                     |          |           |      |          |      |
|------------------------------|----------------------------------|-----|-------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>       | Batch ID: <b>72139</b>           |     | RunNo: <b>93360</b>                       |             |                     |          |           |      |          |      |
| Prep Date: <b>12/16/2022</b> | Analysis Date: <b>12/16/2022</b> |     | SeqNo: <b>3367762</b>                     |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                      | Result                           | PQL | SPK value                                 | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                     | 15                               | 1.5 | 15.00                                     | 0           | 97.4                | 90       | 110       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2212582

21-Dec-22

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>MB-72058</b>     | SampType: <b>MBLK</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|----------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>72058</b>           | RunNo: <b>93261</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/13/2022</b>   | Analysis Date: <b>12/14/2022</b> | SeqNo: <b>3361958</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                        | Result                           | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND                               | 15                                                         |                     |             |      |          |           |      |          |      |
| Motor Oil Range Organics (MRO) | ND                               | 50                                                         |                     |             |      |          |           |      |          |      |
| Surr: DNOP                     | 8.3                              |                                                            | 10.00               |             | 82.6 | 21       | 129       |      |          |      |

| Sample ID: <b>LCS-72058</b>  | SampType: <b>LCS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|------------------------------|----------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>       | Batch ID: <b>72058</b>           | RunNo: <b>93261</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/13/2022</b> | Analysis Date: <b>12/14/2022</b> | SeqNo: <b>3361959</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                      | Result                           | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)  | 47                               | 15                                                         | 50.00               | 0           | 94.7 | 64.4     | 127       |      |          |      |
| Surr: DNOP                   | 4.3                              |                                                            | 5.000               |             | 86.9 | 21       | 129       |      |          |      |

| Sample ID: <b>LCS-72046</b>  | SampType: <b>LCS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|------------------------------|----------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>       | Batch ID: <b>72046</b>           | RunNo: <b>93357</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/13/2022</b> | Analysis Date: <b>12/16/2022</b> | SeqNo: <b>3366576</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                      | Result                           | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)  | 45                               | 15                                                         | 50.00               | 0           | 90.3 | 64.4     | 127       |      |          |      |
| Surr: DNOP                   | 5.9                              |                                                            | 5.000               |             | 119  | 21       | 129       |      |          |      |

| Sample ID: <b>MB-72046</b>     | SampType: <b>MBLK</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|----------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>72046</b>           | RunNo: <b>93357</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/13/2022</b>   | Analysis Date: <b>12/16/2022</b> | SeqNo: <b>3366579</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                        | Result                           | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND                               | 15                                                         |                     |             |      |          |           |      |          |      |
| Motor Oil Range Organics (MRO) | ND                               | 50                                                         |                     |             |      |          |           |      |          |      |
| Surr: DNOP                     | 13                               |                                                            | 10.00               |             | 129  | 21       | 129       |      |          |      |

| Sample ID: <b>2212582-009AMS</b> | SampType: <b>MS</b>              | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|----------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH22-34 2'</b>     | Batch ID: <b>72046</b>           | RunNo: <b>93357</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/13/2022</b>     | Analysis Date: <b>12/16/2022</b> | SeqNo: <b>3368274</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                           | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 42                               | 14                                                         | 46.17               | 0           | 90.0 | 36.1     | 154       |      |          |      |
| Surr: DNOP                       | 5.8                              |                                                            | 4.617               |             | 125  | 21       | 129       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2212582

21-Dec-22

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>2212582-009AMSD</b> | SampType: <b>MSD</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |                     |          |           |      |          |      |
|-----------------------------------|----------------------------------|------------------------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BH22-34 2'</b>      | Batch ID: <b>72046</b>           | RunNo: <b>93357</b>                                        |           |             |                     |          |           |      |          |      |
| Prep Date: <b>12/13/2022</b>      | Analysis Date: <b>12/16/2022</b> | SeqNo: <b>3368276</b>                                      |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                           | Result                           | PQL                                                        | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 47                               | 15                                                         | 48.97     | 0           | 95.4                | 36.1     | 154       | 11.7 | 33.9     |      |
| Surr: DNOP                        | 6.1                              |                                                            | 4.897     |             | 126                 | 21       | 129       | 0    | 0        |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2212582

21-Dec-22

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>mb-72025</b>    | SampType: <b>MBLK</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|----------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>72025</b>           |     | RunNo: <b>93213</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>12/12/2022</b>  | Analysis Date: <b>12/14/2022</b> |     | SeqNo: <b>3361920</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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                                              |             | 96.8                | 37.7     | 212       |      |          |      |

| Sample ID: <b>2212582-001ams</b> | SampType: <b>MS</b>              |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|----------------------------------|----------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BH22-31 0'</b>     | Batch ID: <b>72007</b>           |     | RunNo: <b>93289</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>12/9/2022</b>      | Analysis Date: <b>12/14/2022</b> |     | SeqNo: <b>3362676</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                          | Result                           | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 23                               | 4.9 | 24.65                                             | 0           | 92.2                | 70       | 130       |      |          |      |
| Surr: BFB                        | 1800                             |     | 986.2                                             |             | 178                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>2212582-001amsd</b> | SampType: <b>MSD</b>             |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |       |          |      |
|-----------------------------------|----------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|-------|----------|------|
| Client ID: <b>BH22-31 0'</b>      | Batch ID: <b>72007</b>           |     | RunNo: <b>93289</b>                               |             |                     |          |           |       |          |      |
| Prep Date: <b>12/9/2022</b>       | Analysis Date: <b>12/14/2022</b> |     | SeqNo: <b>3362677</b>                             |             | Units: <b>mg/Kg</b> |          |           |       |          |      |
| Analyte                           | Result                           | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 23                               | 5.0 | 24.85                                             | 0           | 92.1                | 70       | 130       | 0.705 | 20       |      |
| Surr: BFB                         | 1800                             |     | 994.0                                             |             | 182                 | 37.7     | 212       | 0     | 0        |      |

| Sample ID: <b>LCS-72007</b>   | SampType: <b>LCS</b>             |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|----------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>72007</b>           |     | RunNo: <b>93289</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>12/9/2022</b>   | Analysis Date: <b>12/14/2022</b> |     | SeqNo: <b>3362708</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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                | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 1800                             |     | 1000                                              |             | 176                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>mb-72007</b>    | SampType: <b>MBLK</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|----------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>72007</b>           |     | RunNo: <b>93289</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>12/9/2022</b>   | Analysis Date: <b>12/14/2022</b> |     | SeqNo: <b>3362710</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                           | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                               | 5.0 |                                                   |             |                     |          |           |      |          |      |
| Surr: BFB                     | 840                              |     | 1000                                              |             | 84.3                | 37.7     | 212       |      |          |      |

| Sample ID: <b>lcs-72034</b>  | SampType: <b>LCS</b>             |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                    |          |           |      |          |      |
|------------------------------|----------------------------------|-----|---------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>       | Batch ID: <b>72034</b>           |     | RunNo: <b>93307</b>                               |             |                    |          |           |      |          |      |
| Prep Date: <b>12/12/2022</b> | Analysis Date: <b>12/15/2022</b> |     | SeqNo: <b>3363273</b>                             |             | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                      | Result                           | PQL | SPK value                                         | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2212582

21-Dec-22

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>Ics-72034</b>  | SampType: <b>LCS</b>             |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |      |          |                    |      |          |      |
|------------------------------|----------------------------------|-----|---------------------------------------------------|-------------|------|----------|--------------------|------|----------|------|
| Client ID: <b>LCSS</b>       | Batch ID: <b>72034</b>           |     | RunNo: <b>93307</b>                               |             |      |          |                    |      |          |      |
| Prep Date: <b>12/12/2022</b> | Analysis Date: <b>12/15/2022</b> |     | SeqNo: <b>3363273</b>                             |             |      |          | Units: <b>%Rec</b> |      |          |      |
| Analyte                      | Result                           | PQL | SPK value                                         | SPK Ref Val | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Surr: BFB                    | 1800                             |     | 1000                                              |             | 182  | 37.7     | 212                |      |          |      |

| Sample ID: <b>mb-72034</b>   | SampType: <b>MBLK</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |      |          |                    |      |          |      |
|------------------------------|----------------------------------|-----|---------------------------------------------------|-------------|------|----------|--------------------|------|----------|------|
| Client ID: <b>PBS</b>        | Batch ID: <b>72034</b>           |     | RunNo: <b>93307</b>                               |             |      |          |                    |      |          |      |
| Prep Date: <b>12/12/2022</b> | Analysis Date: <b>12/15/2022</b> |     | SeqNo: <b>3363274</b>                             |             |      |          | Units: <b>%Rec</b> |      |          |      |
| Analyte                      | Result                           | PQL | SPK value                                         | SPK Ref Val | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Surr: BFB                    | 890                              |     | 1000                                              |             | 89.0 | 37.7     | 212                |      |          |      |

| Sample ID: <b>Ics-72043</b>  | SampType: <b>LCS</b>             |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |      |          |                    |      |          |      |
|------------------------------|----------------------------------|-----|---------------------------------------------------|-------------|------|----------|--------------------|------|----------|------|
| Client ID: <b>LCSS</b>       | Batch ID: <b>72043</b>           |     | RunNo: <b>93340</b>                               |             |      |          |                    |      |          |      |
| Prep Date: <b>12/13/2022</b> | Analysis Date: <b>12/15/2022</b> |     | SeqNo: <b>3365082</b>                             |             |      |          | Units: <b>%Rec</b> |      |          |      |
| Analyte                      | Result                           | PQL | SPK value                                         | SPK Ref Val | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Surr: BFB                    | 2200                             |     | 1000                                              |             | 216  | 37.7     | 212                |      |          | S    |

| Sample ID: <b>mb-72043</b>   | SampType: <b>MBLK</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |      |          |                    |      |          |      |
|------------------------------|----------------------------------|-----|---------------------------------------------------|-------------|------|----------|--------------------|------|----------|------|
| Client ID: <b>PBS</b>        | Batch ID: <b>72043</b>           |     | RunNo: <b>93340</b>                               |             |      |          |                    |      |          |      |
| Prep Date: <b>12/13/2022</b> | Analysis Date: <b>12/15/2022</b> |     | SeqNo: <b>3365083</b>                             |             |      |          | Units: <b>%Rec</b> |      |          |      |
| Analyte                      | Result                           | PQL | SPK value                                         | SPK Ref Val | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Surr: BFB                    | 1000                             |     | 1000                                              |             | 102  | 37.7     | 212                |      |          |      |

| Sample ID: <b>Ics-72025</b>   | SampType: <b>LCS</b>             |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |      |          |                     |      |          |      |
|-------------------------------|----------------------------------|-----|---------------------------------------------------|-------------|------|----------|---------------------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>72025</b>           |     | RunNo: <b>93340</b>                               |             |      |          |                     |      |          |      |
| Prep Date: <b>12/12/2022</b>  | Analysis Date: <b>12/15/2022</b> |     | SeqNo: <b>3365094</b>                             |             |      |          | Units: <b>mg/Kg</b> |      |          |      |
| Analyte                       | Result                           | PQL | SPK value                                         | SPK Ref Val | %REC | LowLimit | HighLimit           | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 23                               | 5.0 | 25.00                                             | 0           | 90.7 | 72.3     | 137                 |      |          |      |
| Surr: BFB                     | 2100                             |     | 1000                                              |             | 206  | 37.7     | 212                 |      |          |      |

| Sample ID: <b>Ics-72038</b>  | SampType: <b>LCS</b>             |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |      |          |                    |      |          |      |
|------------------------------|----------------------------------|-----|---------------------------------------------------|-------------|------|----------|--------------------|------|----------|------|
| Client ID: <b>LCSS</b>       | Batch ID: <b>72038</b>           |     | RunNo: <b>93307</b>                               |             |      |          |                    |      |          |      |
| Prep Date: <b>12/13/2022</b> | Analysis Date: <b>12/16/2022</b> |     | SeqNo: <b>3365337</b>                             |             |      |          | Units: <b>%Rec</b> |      |          |      |
| Analyte                      | Result                           | PQL | SPK value                                         | SPK Ref Val | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Surr: BFB                    | 1800                             |     | 1000                                              |             | 181  | 37.7     | 212                |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2212582

21-Dec-22

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>mb-72038</b>   | SampType: <b>MBLK</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                    |             |      |          |           |      |          |      |
|------------------------------|----------------------------------|---------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>        | Batch ID: <b>72038</b>           | RunNo: <b>93307</b>                               |                    |             |      |          |           |      |          |      |
| Prep Date: <b>12/13/2022</b> | Analysis Date: <b>12/16/2022</b> | SeqNo: <b>3365338</b>                             | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                      | Result                           | PQL                                               | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                    | 830                              |                                                   | 1000               |             | 82.6 | 37.7     | 212       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2212582

21-Dec-22

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>mb-72025</b>   | SampType: <b>MBLK</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|------------------------------|----------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>        | Batch ID: <b>72025</b>           | RunNo: <b>93213</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/12/2022</b> | Analysis Date: <b>12/14/2022</b> | SeqNo: <b>3361996</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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               |             | 103  | 70       | 130       |      |          |      |

| Sample ID: <b>2212582-002ams</b> | SampType: <b>MS</b>              | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|----------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH22-31 2'</b>     | Batch ID: <b>72007</b>           | RunNo: <b>93289</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/9/2022</b>      | Analysis Date: <b>12/14/2022</b> | SeqNo: <b>3362730</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                           | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.81                             | 0.025                                        | 0.9804              | 0           | 82.8 | 68.8     | 120       |      |          |      |
| Toluene                          | 0.83                             | 0.049                                        | 0.9804              | 0           | 84.9 | 73.6     | 124       |      |          |      |
| Ethylbenzene                     | 0.83                             | 0.049                                        | 0.9804              | 0           | 84.4 | 72.7     | 129       |      |          |      |
| Xylenes, Total                   | 2.5                              | 0.098                                        | 2.941               | 0           | 85.2 | 75.7     | 126       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.90                             |                                              | 0.9804              |             | 92.1 | 70       | 130       |      |          |      |

| Sample ID: <b>2212582-002amsd</b> | SampType: <b>MSD</b>             | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |       |          |      |
|-----------------------------------|----------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: <b>BH22-31 2'</b>      | Batch ID: <b>72007</b>           | RunNo: <b>93289</b>                          |                     |             |      |          |           |       |          |      |
| Prep Date: <b>12/9/2022</b>       | Analysis Date: <b>12/14/2022</b> | SeqNo: <b>3362731</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |       |          |      |
| Analyte                           | Result                           | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Benzene                           | 0.80                             | 0.025                                        | 0.9814              | 0           | 81.5 | 68.8     | 120       | 1.42  | 20       |      |
| Toluene                           | 0.83                             | 0.049                                        | 0.9814              | 0           | 84.2 | 73.6     | 124       | 0.753 | 20       |      |
| Ethylbenzene                      | 0.82                             | 0.049                                        | 0.9814              | 0           | 83.9 | 72.7     | 129       | 0.543 | 20       |      |
| Xylenes, Total                    | 2.5                              | 0.098                                        | 2.944               | 0           | 84.4 | 75.7     | 126       | 0.869 | 20       |      |
| Surr: 4-Bromofluorobenzene        | 0.87                             |                                              | 0.9814              |             | 88.4 | 70       | 130       | 0     | 0        |      |

| Sample ID: <b>lcs-72007</b> | SampType: <b>LCS</b>             | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|----------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72007</b>           | RunNo: <b>93289</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/9/2022</b> | Analysis Date: <b>12/14/2022</b> | SeqNo: <b>3362761</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                           | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.95                             | 0.025                                        | 1.000               | 0           | 95.4 | 80       | 120       |      |          |      |
| Toluene                     | 0.97                             | 0.050                                        | 1.000               | 0           | 97.3 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.95                             | 0.050                                        | 1.000               | 0           | 95.4 | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.9                              | 0.10                                         | 3.000               | 0           | 95.7 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.89                             |                                              | 1.000               |             | 88.7 | 70       | 130       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2212582

21-Dec-22

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>mb-72007</b>  | SampType: <b>MBLK</b>            |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|----------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72007</b>           |       | RunNo: <b>93289</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>12/9/2022</b> | Analysis Date: <b>12/14/2022</b> |       | SeqNo: <b>3362763</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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  | 0.85                             |       | 1.000                                        |             | 85.2                | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-72034</b>  | SampType: <b>LCS</b>             |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|------------------------------|----------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>       | Batch ID: <b>72034</b>           |     | RunNo: <b>93307</b>                          |             |                    |          |           |      |          |      |
| Prep Date: <b>12/12/2022</b> | Analysis Date: <b>12/15/2022</b> |     | SeqNo: <b>3363278</b>                        |             | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                      | Result                           | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene   | 0.89                             |     | 1.000                                        |             | 88.6               | 70       | 130       |      |          |      |

| Sample ID: <b>mb-72034</b>   | SampType: <b>MBLK</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|------------------------------|----------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>        | Batch ID: <b>72034</b>           |     | RunNo: <b>93307</b>                          |             |                    |          |           |      |          |      |
| Prep Date: <b>12/12/2022</b> | Analysis Date: <b>12/15/2022</b> |     | SeqNo: <b>3363279</b>                        |             | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                      | Result                           | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene   | 0.89                             |     | 1.000                                        |             | 89.3               | 70       | 130       |      |          |      |

| Sample ID: <b>lcs-72043</b>  | SampType: <b>LCS</b>             |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|------------------------------|----------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>       | Batch ID: <b>72043</b>           |     | RunNo: <b>93340</b>                          |             |                    |          |           |      |          |      |
| Prep Date: <b>12/13/2022</b> | Analysis Date: <b>12/15/2022</b> |     | SeqNo: <b>3365123</b>                        |             | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                      | Result                           | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene   | 1.1                              |     | 1.000                                        |             | 106                | 70       | 130       |      |          |      |

| Sample ID: <b>mb-72043</b>   | SampType: <b>MBLK</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|------------------------------|----------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>        | Batch ID: <b>72043</b>           |     | RunNo: <b>93340</b>                          |             |                    |          |           |      |          |      |
| Prep Date: <b>12/13/2022</b> | Analysis Date: <b>12/15/2022</b> |     | SeqNo: <b>3365124</b>                        |             | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                      | Result                           | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene   | 1.1                              |     | 1.000                                        |             | 106                | 70       | 130       |      |          |      |

| Sample ID: <b>lcs-72025</b>  | SampType: <b>LCS</b>             |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|------------------------------|----------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>       | Batch ID: <b>72025</b>           |       | RunNo: <b>93340</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>12/12/2022</b> | Analysis Date: <b>12/15/2022</b> |       | SeqNo: <b>3365135</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                      | Result                           | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                      | 0.97                             | 0.025 | 1.000                                        | 0           | 97.4                | 80       | 120       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2212582

21-Dec-22

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>ics-72025</b>  | SampType: <b>LCS</b>             |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |      |          |                     |      |          |      |
|------------------------------|----------------------------------|-------|----------------------------------------------|-------------|------|----------|---------------------|------|----------|------|
| Client ID: <b>LCSS</b>       | Batch ID: <b>72025</b>           |       | RunNo: <b>93340</b>                          |             |      |          |                     |      |          |      |
| Prep Date: <b>12/12/2022</b> | Analysis Date: <b>12/15/2022</b> |       | SeqNo: <b>3365135</b>                        |             |      |          | Units: <b>mg/Kg</b> |      |          |      |
| Analyte                      | Result                           | PQL   | SPK value                                    | SPK Ref Val | %REC | LowLimit | HighLimit           | %RPD | RPDLimit | Qual |
| Toluene                      | 0.99                             | 0.050 | 1.000                                        | 0           | 98.8 | 80       | 120                 |      |          |      |
| Ethylbenzene                 | 0.99                             | 0.050 | 1.000                                        | 0           | 98.6 | 80       | 120                 |      |          |      |
| Xylenes, Total               | 3.0                              | 0.10  | 3.000                                        | 0           | 98.5 | 80       | 120                 |      |          |      |
| Surr: 4-Bromofluorobenzene   | 1.0                              |       | 1.000                                        |             | 103  | 70       | 130                 |      |          |      |

| Sample ID: <b>LCS-72038</b>  | SampType: <b>LCS</b>             |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |      |          |                    |      |          |      |
|------------------------------|----------------------------------|-----|----------------------------------------------|-------------|------|----------|--------------------|------|----------|------|
| Client ID: <b>LCSS</b>       | Batch ID: <b>72038</b>           |     | RunNo: <b>93307</b>                          |             |      |          |                    |      |          |      |
| Prep Date: <b>12/13/2022</b> | Analysis Date: <b>12/16/2022</b> |     | SeqNo: <b>3365373</b>                        |             |      |          | Units: <b>%Rec</b> |      |          |      |
| Analyte                      | Result                           | PQL | SPK value                                    | SPK Ref Val | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene   | 0.87                             |     | 1.000                                        |             | 86.8 | 70       | 130                |      |          |      |

| Sample ID: <b>mb-72038</b>   | SampType: <b>MBLK</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |      |          |                    |      |          |      |
|------------------------------|----------------------------------|-----|----------------------------------------------|-------------|------|----------|--------------------|------|----------|------|
| Client ID: <b>PBS</b>        | Batch ID: <b>72038</b>           |     | RunNo: <b>93307</b>                          |             |      |          |                    |      |          |      |
| Prep Date: <b>12/13/2022</b> | Analysis Date: <b>12/16/2022</b> |     | SeqNo: <b>3365375</b>                        |             |      |          | Units: <b>%Rec</b> |      |          |      |
| Analyte                      | Result                           | PQL | SPK value                                    | SPK Ref Val | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene   | 0.82                             |     | 1.000                                        |             | 81.5 | 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 Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.

Work Order Number: 2212582

RcptNo: 1

Received By: Juan Rojas 12/9/2022 7:55:00 AM

[Signature]

Completed By: Sean Livingston 12/9/2022 8:43:25 AM

[Signature]

Reviewed By: [Signature] 12-9-22

Chain of Custody

1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes [checked] No [ ] NA [ ]

4. Were all samples received at a temperature of >0° C to 6.0° C Yes [checked] No [ ] NA [ ]

5. Sample(s) in proper container(s)? Yes [checked] No [ ]

6. Sufficient sample volume for indicated test(s)? Yes [checked] No [ ]

7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No [ ]

8. Was preservative added to bottles? Yes [ ] No [checked] NA [ ]

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [ ] No [ ] NA [checked]

10. Were any sample containers received broken? Yes [ ] No [checked]

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes [checked] No [ ]

12. Are matrices correctly identified on Chain of Custody? Yes [checked] No [ ]

13. Is it clear what analyses were requested? Yes [checked] No [ ]

14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes [checked] No [ ]

# of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: [Signature] 12/9/22

Special Handling (if applicable)

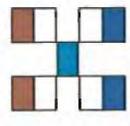
15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: [ ] Date: [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 0.3, Good, [ ], [ ], [ ], [ ]



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time: Standard  Rush 5 Day

Project Name: North Pure Gold 8 Federal #006 East

Project #: 22E-02816-07

Project Manager: Kent Stallings

Project Stalling: kstallings@vertex.ca

Sampler: L. Pullman

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CP): 0.2+0.1=0.3

Container Type and #

Preservative Type

HEAL No. 2212592

| Date    | Time  | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. |
|---------|-------|--------|-------------|----------------------|-------------------|----------|
| 12/7/22 | 10:55 | Soil   | BH22-31 0'  | 1 4oz jar            |                   | 001      |
| 12/7/22 | 11:00 | Soil   | BH22-31 2'  | 1 4oz jar            |                   | 002      |
| 12/7/22 | 11:15 | Soil   | BH22-32 0'  | 1 4oz jar            |                   | 003      |
| 12/7/22 | 11:20 | Soil   | BH22-32 2'  | 1 4oz jar            |                   | 004      |
| 12/7/22 | 11:35 | Soil   | BH22-32 4'  | 1 4oz jar            |                   | 005      |
| 12/7/22 | 11:45 | Soil   | BH22-33 0'  | 1 4oz jar            |                   | 006      |
| 12/7/22 | 11:55 | Soil   | BH22-33 2'  | 1 4oz jar            |                   | 007      |
| 12/7/22 | 12:05 | Soil   | BH22-34 0'  | 1 4oz jar            |                   | 008      |
| 12/7/22 | 12:10 | Soil   | BH22-34 2'  | 1 4oz jar            |                   | 009      |
| 12/7/22 | 12:45 | Soil   | BH22-35 0'  | 1 4oz jar            |                   | 010      |
| 12/7/22 | 12:50 | Soil   | BH22-35 2'  | 1 4oz jar            |                   | 011      |

Received by: [Signature] Date: 12/8/22 7:00

Received by: [Signature] Date: 12/9/22 7:55

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

Remarks: **Direct bill to Devon, Dale Woodall cc. kstallings@vertex.ca for Final Report**

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: [www.hallenvironmental.com](http://www.hallenvironmental.com)

January 17, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: North Pure Gold 8 Federal 006 East

OrderNo.: 2301273

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 12 sample(s) on 1/7/2023 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2301273**

Date Reported: **1/17/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-37 0'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/4/2023 9:30:00 AM

**Lab ID:** 2301273-001

**Matrix:** SOIL

**Received Date:** 1/7/2023 8:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 10       |      | mg/Kg | 1  | 1/12/2023 7:44:31 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 1/12/2023 7:44:31 PM |
| Surr: DNOP                                       | 99.1   | 69-147   |      | %Rec  | 1  | 1/12/2023 7:44:31 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/12/2023 1:30:20 AM |
| Surr: BFB                                        | 98.8   | 37.7-212 |      | %Rec  | 1  | 1/12/2023 1:30:20 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/12/2023 1:30:20 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/12/2023 1:30:20 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/12/2023 1:30:20 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 1/12/2023 1:30:20 AM |
| Surr: 4-Bromofluorobenzene                       | 96.5   | 70-130   |      | %Rec  | 1  | 1/12/2023 1:30:20 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 160    | 60       |      | mg/Kg | 20 | 1/11/2023 4:16:44 PM |

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

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

**Analytical Report**

Lab Order **2301273**

Date Reported: **1/17/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-37 2'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/4/2023 9:35:00 AM

**Lab ID:** 2301273-002

**Matrix:** SOIL

**Received Date:** 1/7/2023 8:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.3    |      | mg/Kg | 1  | 1/12/2023 12:20:37 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 47     |      | mg/Kg | 1  | 1/12/2023 12:20:37 AM |
| Surr: DNOP                                       | 134    | 21-129 | S    | %Rec  | 1  | 1/12/2023 12:20:37 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 250    | 60     |      | mg/Kg | 20 | 1/11/2023 4:53:58 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 1/11/2023 6:29:02 PM  |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 1/11/2023 6:29:02 PM  |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 1/11/2023 6:29:02 PM  |
| Xylenes, Total                                   | ND     | 0.099  |      | mg/Kg | 1  | 1/11/2023 6:29:02 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 90.9   | 70-130 |      | %Rec  | 1  | 1/11/2023 6:29:02 PM  |
| Surr: 4-Bromofluorobenzene                       | 108    | 70-130 |      | %Rec  | 1  | 1/11/2023 6:29:02 PM  |
| Surr: Dibromofluoromethane                       | 86.6   | 70-130 |      | %Rec  | 1  | 1/11/2023 6:29:02 PM  |
| Surr: Toluene-d8                                 | 109    | 70-130 |      | %Rec  | 1  | 1/11/2023 6:29:02 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 1/11/2023 6:29:02 PM  |
| Surr: BFB                                        | 125    | 70-130 |      | %Rec  | 1  | 1/11/2023 6:29:02 PM  |

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

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

**Analytical Report**

Lab Order **2301273**

Date Reported: **1/17/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-37 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/4/2023 9:40:00 AM

**Lab ID:** 2301273-003

**Matrix:** SOIL

**Received Date:** 1/7/2023 8:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.1    |      | mg/Kg | 1  | 1/12/2023 12:52:32 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46     |      | mg/Kg | 1  | 1/12/2023 12:52:32 AM |
| Surr: DNOP                                       | 110    | 21-129 |      | %Rec  | 1  | 1/12/2023 12:52:32 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 390    | 60     |      | mg/Kg | 20 | 1/11/2023 5:56:02 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 1/11/2023 7:54:54 PM  |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 1/11/2023 7:54:54 PM  |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 1/11/2023 7:54:54 PM  |
| Xylenes, Total                                   | ND     | 0.097  |      | mg/Kg | 1  | 1/11/2023 7:54:54 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 81.0   | 70-130 |      | %Rec  | 1  | 1/11/2023 7:54:54 PM  |
| Surr: 4-Bromofluorobenzene                       | 109    | 70-130 |      | %Rec  | 1  | 1/11/2023 7:54:54 PM  |
| Surr: Dibromofluoromethane                       | 87.9   | 70-130 |      | %Rec  | 1  | 1/11/2023 7:54:54 PM  |
| Surr: Toluene-d8                                 | 107    | 70-130 |      | %Rec  | 1  | 1/11/2023 7:54:54 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 1/11/2023 7:54:54 PM  |
| Surr: BFB                                        | 125    | 70-130 |      | %Rec  | 1  | 1/11/2023 7:54:54 PM  |

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

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

**Analytical Report**

Lab Order **2301273**

Date Reported: **1/17/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-37 6'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/4/2023 9:45:00 AM

**Lab ID:** 2301273-004

**Matrix:** SOIL

**Received Date:** 1/7/2023 8:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.8    |      | mg/Kg | 1  | 1/12/2023 1:03:13 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 49     |      | mg/Kg | 1  | 1/12/2023 1:03:13 AM |
| Surr: DNOP                                       | 115    | 21-129 |      | %Rec  | 1  | 1/12/2023 1:03:13 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 340    | 60     |      | mg/Kg | 20 | 1/11/2023 6:08:28 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 1/11/2023 9:20:42 PM |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 1/11/2023 9:20:42 PM |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 1/11/2023 9:20:42 PM |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 1/11/2023 9:20:42 PM |
| Surr: 1,2-Dichloroethane-d4                      | 83.5   | 70-130 |      | %Rec  | 1  | 1/11/2023 9:20:42 PM |
| Surr: 4-Bromofluorobenzene                       | 112    | 70-130 |      | %Rec  | 1  | 1/11/2023 9:20:42 PM |
| Surr: Dibromofluoromethane                       | 82.7   | 70-130 |      | %Rec  | 1  | 1/11/2023 9:20:42 PM |
| Surr: Toluene-d8                                 | 108    | 70-130 |      | %Rec  | 1  | 1/11/2023 9:20:42 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 1/11/2023 9:20:42 PM |
| Surr: BFB                                        | 126    | 70-130 |      | %Rec  | 1  | 1/11/2023 9:20:42 PM |

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

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

**Analytical Report**

Lab Order **2301273**

Date Reported: **1/17/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-37 8'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/4/2023 9:50:00 AM

**Lab ID:** 2301273-005

**Matrix:** SOIL

**Received Date:** 1/7/2023 8:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.5    |      | mg/Kg | 1  | 1/12/2023 1:14:01 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 47     |      | mg/Kg | 1  | 1/12/2023 1:14:01 AM |
| Surr: DNOP                                       | 130    | 21-129 | S    | %Rec  | 1  | 1/12/2023 1:14:01 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 240    | 59     |      | mg/Kg | 20 | 1/11/2023 6:20:53 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 1/11/2023 9:49:15 PM |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 1/11/2023 9:49:15 PM |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 1/11/2023 9:49:15 PM |
| Xylenes, Total                                   | ND     | 0.099  |      | mg/Kg | 1  | 1/11/2023 9:49:15 PM |
| Surr: 1,2-Dichloroethane-d4                      | 87.8   | 70-130 |      | %Rec  | 1  | 1/11/2023 9:49:15 PM |
| Surr: 4-Bromofluorobenzene                       | 112    | 70-130 |      | %Rec  | 1  | 1/11/2023 9:49:15 PM |
| Surr: Dibromofluoromethane                       | 84.2   | 70-130 |      | %Rec  | 1  | 1/11/2023 9:49:15 PM |
| Surr: Toluene-d8                                 | 112    | 70-130 |      | %Rec  | 1  | 1/11/2023 9:49:15 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 1/11/2023 9:49:15 PM |
| Surr: BFB                                        | 131    | 70-130 | S    | %Rec  | 1  | 1/11/2023 9:49:15 PM |

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

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

**Analytical Report**

Lab Order **2301273**

Date Reported: **1/17/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-37 10'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/4/2023 9:55:00 AM

**Lab ID:** 2301273-006

**Matrix:** SOIL

**Received Date:** 1/7/2023 8:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.8    |      | mg/Kg | 1  | 1/12/2023 1:24:45 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49     |      | mg/Kg | 1  | 1/12/2023 1:24:45 AM  |
| Surr: DNOP                                       | 114    | 21-129 |      | %Rec  | 1  | 1/12/2023 1:24:45 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 230    | 60     |      | mg/Kg | 20 | 1/11/2023 6:33:17 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 1/12/2023 12:40:17 AM |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 1/12/2023 12:40:17 AM |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 1/12/2023 12:40:17 AM |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 1/12/2023 12:40:17 AM |
| Surr: 1,2-Dichloroethane-d4                      | 77.6   | 70-130 |      | %Rec  | 1  | 1/12/2023 12:40:17 AM |
| Surr: 4-Bromofluorobenzene                       | 116    | 70-130 |      | %Rec  | 1  | 1/12/2023 12:40:17 AM |
| Surr: Dibromofluoromethane                       | 81.1   | 70-130 |      | %Rec  | 1  | 1/12/2023 12:40:17 AM |
| Surr: Toluene-d8                                 | 110    | 70-130 |      | %Rec  | 1  | 1/12/2023 12:40:17 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 1/12/2023 12:40:17 AM |
| Surr: BFB                                        | 129    | 70-130 |      | %Rec  | 1  | 1/12/2023 12:40:17 AM |

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

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

**Analytical Report**

Lab Order **2301273**

Date Reported: **1/17/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-37 12'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/4/2023 10:00:00 AM

**Lab ID:** 2301273-007

**Matrix:** SOIL

**Received Date:** 1/7/2023 8:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.9    |      | mg/Kg | 1  | 1/12/2023 1:35:24 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 49     |      | mg/Kg | 1  | 1/12/2023 1:35:24 AM |
| Surr: DNOP                                       | 139    | 21-129 | S    | %Rec  | 1  | 1/12/2023 1:35:24 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 230    | 60     |      | mg/Kg | 20 | 1/11/2023 6:45:41 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 1/12/2023 1:08:45 AM |
| Toluene                                          | ND     | 0.048  |      | mg/Kg | 1  | 1/12/2023 1:08:45 AM |
| Ethylbenzene                                     | ND     | 0.048  |      | mg/Kg | 1  | 1/12/2023 1:08:45 AM |
| Xylenes, Total                                   | ND     | 0.095  |      | mg/Kg | 1  | 1/12/2023 1:08:45 AM |
| Surr: 1,2-Dichloroethane-d4                      | 84.0   | 70-130 |      | %Rec  | 1  | 1/12/2023 1:08:45 AM |
| Surr: 4-Bromofluorobenzene                       | 113    | 70-130 |      | %Rec  | 1  | 1/12/2023 1:08:45 AM |
| Surr: Dibromofluoromethane                       | 80.3   | 70-130 |      | %Rec  | 1  | 1/12/2023 1:08:45 AM |
| Surr: Toluene-d8                                 | 108    | 70-130 |      | %Rec  | 1  | 1/12/2023 1:08:45 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8    |      | mg/Kg | 1  | 1/12/2023 1:08:45 AM |
| Surr: BFB                                        | 128    | 70-130 |      | %Rec  | 1  | 1/12/2023 1:08:45 AM |

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

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

**Analytical Report**

Lab Order **2301273**

Date Reported: **1/17/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-37 14'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/5/2023 8:45:00 AM

**Lab ID:** 2301273-008

**Matrix:** SOIL

**Received Date:** 1/7/2023 8:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 8.8    |      | mg/Kg | 1  | 1/12/2023 1:46:03 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 44     |      | mg/Kg | 1  | 1/12/2023 1:46:03 AM |
| Surr: DNOP                                       | 133    | 21-129 | S    | %Rec  | 1  | 1/12/2023 1:46:03 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 97     | 60     |      | mg/Kg | 20 | 1/11/2023 6:58:06 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 1/12/2023 1:37:11 AM |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 1/12/2023 1:37:11 AM |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 1/12/2023 1:37:11 AM |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 1/12/2023 1:37:11 AM |
| Surr: 1,2-Dichloroethane-d4                      | 86.5   | 70-130 |      | %Rec  | 1  | 1/12/2023 1:37:11 AM |
| Surr: 4-Bromofluorobenzene                       | 116    | 70-130 |      | %Rec  | 1  | 1/12/2023 1:37:11 AM |
| Surr: Dibromofluoromethane                       | 81.6   | 70-130 |      | %Rec  | 1  | 1/12/2023 1:37:11 AM |
| Surr: Toluene-d8                                 | 107    | 70-130 |      | %Rec  | 1  | 1/12/2023 1:37:11 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 1/12/2023 1:37:11 AM |
| Surr: BFB                                        | 128    | 70-130 |      | %Rec  | 1  | 1/12/2023 1:37:11 AM |

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

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

**Analytical Report**

Lab Order **2301273**

Date Reported: **1/17/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-37 16'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/5/2023 8:50:00 AM

**Lab ID:** 2301273-009

**Matrix:** SOIL

**Received Date:** 1/7/2023 8:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.8    |      | mg/Kg | 1  | 1/12/2023 1:56:39 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 49     |      | mg/Kg | 1  | 1/12/2023 1:56:39 AM |
| Surr: DNOP                                       | 142    | 21-129 | S    | %Rec  | 1  | 1/12/2023 1:56:39 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 1/11/2023 7:10:31 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 1/12/2023 2:05:37 AM |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 1/12/2023 2:05:37 AM |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 1/12/2023 2:05:37 AM |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 1/12/2023 2:05:37 AM |
| Surr: 1,2-Dichloroethane-d4                      | 84.9   | 70-130 |      | %Rec  | 1  | 1/12/2023 2:05:37 AM |
| Surr: 4-Bromofluorobenzene                       | 115    | 70-130 |      | %Rec  | 1  | 1/12/2023 2:05:37 AM |
| Surr: Dibromofluoromethane                       | 79.6   | 70-130 |      | %Rec  | 1  | 1/12/2023 2:05:37 AM |
| Surr: Toluene-d8                                 | 109    | 70-130 |      | %Rec  | 1  | 1/12/2023 2:05:37 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 1/12/2023 2:05:37 AM |
| Surr: BFB                                        | 127    | 70-130 |      | %Rec  | 1  | 1/12/2023 2:05:37 AM |

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

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

**Analytical Report**

Lab Order **2301273**

Date Reported: **1/17/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-37 18'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/5/2023 9:00:00 AM

**Lab ID:** 2301273-010

**Matrix:** SOIL

**Received Date:** 1/7/2023 8:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 8.5    |      | mg/Kg | 1  | 1/12/2023 2:17:30 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 42     |      | mg/Kg | 1  | 1/12/2023 2:17:30 AM |
| Surr: DNOP                                       | 112    | 21-129 |      | %Rec  | 1  | 1/12/2023 2:17:30 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 1/11/2023 7:22:56 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 1/12/2023 2:33:59 AM |
| Toluene                                          | ND     | 0.048  |      | mg/Kg | 1  | 1/12/2023 2:33:59 AM |
| Ethylbenzene                                     | ND     | 0.048  |      | mg/Kg | 1  | 1/12/2023 2:33:59 AM |
| Xylenes, Total                                   | ND     | 0.096  |      | mg/Kg | 1  | 1/12/2023 2:33:59 AM |
| Surr: 1,2-Dichloroethane-d4                      | 86.6   | 70-130 |      | %Rec  | 1  | 1/12/2023 2:33:59 AM |
| Surr: 4-Bromofluorobenzene                       | 118    | 70-130 |      | %Rec  | 1  | 1/12/2023 2:33:59 AM |
| Surr: Dibromofluoromethane                       | 81.8   | 70-130 |      | %Rec  | 1  | 1/12/2023 2:33:59 AM |
| Surr: Toluene-d8                                 | 109    | 70-130 |      | %Rec  | 1  | 1/12/2023 2:33:59 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8    |      | mg/Kg | 1  | 1/12/2023 2:33:59 AM |
| Surr: BFB                                        | 130    | 70-130 |      | %Rec  | 1  | 1/12/2023 2:33:59 AM |

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

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

**Analytical Report**

Lab Order **2301273**

Date Reported: **1/17/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-38 0'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/5/2023 7:05:00 AM

**Lab ID:** 2301273-011

**Matrix:** SOIL

**Received Date:** 1/7/2023 8:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 8.8    |      | mg/Kg | 1  | 1/12/2023 2:28:02 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 44     |      | mg/Kg | 1  | 1/12/2023 2:28:02 AM |
| Surr: DNOP                                       | 98.8   | 21-129 |      | %Rec  | 1  | 1/12/2023 2:28:02 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 1/11/2023 7:35:21 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 1/12/2023 3:02:22 AM |
| Toluene                                          | ND     | 0.050  |      | mg/Kg | 1  | 1/12/2023 3:02:22 AM |
| Ethylbenzene                                     | ND     | 0.050  |      | mg/Kg | 1  | 1/12/2023 3:02:22 AM |
| Xylenes, Total                                   | ND     | 0.10   |      | mg/Kg | 1  | 1/12/2023 3:02:22 AM |
| Surr: 1,2-Dichloroethane-d4                      | 82.9   | 70-130 |      | %Rec  | 1  | 1/12/2023 3:02:22 AM |
| Surr: 4-Bromofluorobenzene                       | 116    | 70-130 |      | %Rec  | 1  | 1/12/2023 3:02:22 AM |
| Surr: Dibromofluoromethane                       | 75.6   | 70-130 |      | %Rec  | 1  | 1/12/2023 3:02:22 AM |
| Surr: Toluene-d8                                 | 110    | 70-130 |      | %Rec  | 1  | 1/12/2023 3:02:22 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0    |      | mg/Kg | 1  | 1/12/2023 3:02:22 AM |
| Surr: BFB                                        | 130    | 70-130 |      | %Rec  | 1  | 1/12/2023 3:02:22 AM |

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

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

**Analytical Report**

Lab Order **2301273**

Date Reported: **1/17/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-38 2'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/5/2023 7:10:00 AM

**Lab ID:** 2301273-012

**Matrix:** SOIL

**Received Date:** 1/7/2023 8:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 10     |      | mg/Kg | 1  | 1/12/2023 2:38:32 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 50     |      | mg/Kg | 1  | 1/12/2023 2:38:32 AM |
| Surr: DNOP                                       | 127    | 21-129 |      | %Rec  | 1  | 1/12/2023 2:38:32 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 1/11/2023 7:47:46 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 1/12/2023 3:30:42 AM |
| Toluene                                          | ND     | 0.050  |      | mg/Kg | 1  | 1/12/2023 3:30:42 AM |
| Ethylbenzene                                     | ND     | 0.050  |      | mg/Kg | 1  | 1/12/2023 3:30:42 AM |
| Xylenes, Total                                   | ND     | 0.099  |      | mg/Kg | 1  | 1/12/2023 3:30:42 AM |
| Surr: 1,2-Dichloroethane-d4                      | 87.4   | 70-130 |      | %Rec  | 1  | 1/12/2023 3:30:42 AM |
| Surr: 4-Bromofluorobenzene                       | 115    | 70-130 |      | %Rec  | 1  | 1/12/2023 3:30:42 AM |
| Surr: Dibromofluoromethane                       | 77.0   | 70-130 |      | %Rec  | 1  | 1/12/2023 3:30:42 AM |
| Surr: Toluene-d8                                 | 113    | 70-130 |      | %Rec  | 1  | 1/12/2023 3:30:42 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0    |      | mg/Kg | 1  | 1/12/2023 3:30:42 AM |
| Surr: BFB                                        | 129    | 70-130 |      | %Rec  | 1  | 1/12/2023 3:30:42 AM |

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301273

17-Jan-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>MB-72575</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72575</b>          | RunNo: <b>93895</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/11/2023</b> | Analysis Date: <b>1/11/2023</b> | SeqNo: <b>3389504</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-72575</b> | SampType: <b>lcs</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72575</b>          | RunNo: <b>93895</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/11/2023</b> | Analysis Date: <b>1/11/2023</b> | SeqNo: <b>3389505</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 91.5 | 90       | 110       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301273

17-Jan-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>2301273-002AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH22-37 2'</b>     | Batch ID: <b>72555</b>          | RunNo: <b>93869</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/10/2023</b>      | Analysis Date: <b>1/12/2023</b> | SeqNo: <b>3390164</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 38                              | 9.5                                                        | 47.48               | 0           | 79.9 | 36.1     | 154       |      |          |      |
| Surr: DNOP                       | 5.2                             |                                                            | 4.748               |             | 110  | 21       | 129       |      |          |      |

| Sample ID: <b>2301273-002AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH22-37 2'</b>      | Batch ID: <b>72555</b>          | RunNo: <b>93869</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/10/2023</b>       | Analysis Date: <b>1/12/2023</b> | SeqNo: <b>3390165</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 42                              | 9.5                                                        | 47.62               | 0           | 88.9 | 36.1     | 154       | 10.9 | 33.9     |      |
| Surr: DNOP                        | 5.5                             |                                                            | 4.762               |             | 116  | 21       | 129       | 0    | 0        |      |

| Sample ID: <b>LCS-72555</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72555</b>          | RunNo: <b>93869</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/10/2023</b> | Analysis Date: <b>1/12/2023</b> | SeqNo: <b>3390205</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 44                              | 10                                                         | 50.00               | 0           | 88.4 | 64.4     | 127       |      |          |      |
| Surr: DNOP                  | 5.8                             |                                                            | 5.000               |             | 115  | 21       | 129       |      |          |      |

| Sample ID: <b>MB-72555</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>72555</b>          | RunNo: <b>93869</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/10/2023</b>    | Analysis Date: <b>1/11/2023</b> | SeqNo: <b>3390207</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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                     | 15                              |                                                            | 10.00               |             | 145  | 21       | 129       |      |          | S    |

| Sample ID: <b>LCS-72585</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72585</b>          | RunNo: <b>93911</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>1/12/2023</b> | Analysis Date: <b>1/12/2023</b> | SeqNo: <b>3390353</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 5.6                             |                                                            | 5.000              |             | 111  | 69       | 147       |      |          |      |

| Sample ID: <b>MB-72585</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72585</b>          | RunNo: <b>93911</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>1/12/2023</b> | Analysis Date: <b>1/12/2023</b> | SeqNo: <b>3390355</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301273

17-Jan-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>MB-72585</b>  | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |      |          |                    |      |          |      |
|-----------------------------|---------------------------------|-----|------------------------------------------------------------|-------------|------|----------|--------------------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72585</b>          |     | RunNo: <b>93911</b>                                        |             |      |          |                    |      |          |      |
| Prep Date: <b>1/12/2023</b> | Analysis Date: <b>1/12/2023</b> |     | SeqNo: <b>3390355</b>                                      |             |      |          | Units: <b>%Rec</b> |      |          |      |
| Analyte                     | Result                          | PQL | SPK value                                                  | SPK Ref Val | %REC | LowLimit | HighLimit          | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 11                              |     | 10.00                                                      |             | 106  | 69       | 147                |      |          |      |

| Sample ID: <b>LCS-72572</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |      |          |                     |      |          |      |
|-----------------------------|---------------------------------|-----|------------------------------------------------------------|-------------|------|----------|---------------------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72572</b>          |     | RunNo: <b>93911</b>                                        |             |      |          |                     |      |          |      |
| Prep Date: <b>1/11/2023</b> | Analysis Date: <b>1/12/2023</b> |     | SeqNo: <b>3391721</b>                                      |             |      |          | Units: <b>mg/Kg</b> |      |          |      |
| Analyte                     | Result                          | PQL | SPK value                                                  | SPK Ref Val | %REC | LowLimit | HighLimit           | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 38                              | 10  | 50.00                                                      | 0           | 75.7 | 61.9     | 130                 |      |          |      |
| Surr: DNOP                  | 5.4                             |     | 5.000                                                      |             | 107  | 69       | 147                 |      |          |      |

| Sample ID: <b>MB-72572</b>     | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |      |          |                     |      |          |      |
|--------------------------------|---------------------------------|-----|------------------------------------------------------------|-------------|------|----------|---------------------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>72572</b>          |     | RunNo: <b>93911</b>                                        |             |      |          |                     |      |          |      |
| Prep Date: <b>1/11/2023</b>    | Analysis Date: <b>1/12/2023</b> |     | SeqNo: <b>3391726</b>                                      |             |      |          | Units: <b>mg/Kg</b> |      |          |      |
| 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                     | 15                              |     | 10.00                                                      |             | 147  | 69       | 147                 |      |          | S    |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301273

17-Jan-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>ics-72537</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>72537</b>          |     | RunNo: <b>93875</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/10/2023</b>   | Analysis Date: <b>1/11/2023</b> |     | SeqNo: <b>3388796</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 25                              | 5.0 | 25.00                                             | 0           | 99.8                | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 2000                            |     | 1000                                              |             | 203                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>mb-72537</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>72537</b>          |     | RunNo: <b>93875</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/10/2023</b>   | Analysis Date: <b>1/11/2023</b> |     | SeqNo: <b>3388797</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0 |                                                   |             |                     |          |           |      |          |      |
| Surr: BFB                     | 1100                            |     | 1000                                              |             | 106                 | 37.7     | 212       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301273

17-Jan-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>LCS-72537</b> | SampType: <b>LCS</b>            |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72537</b>          |       | RunNo: <b>93875</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>1/10/2023</b> | Analysis Date: <b>1/11/2023</b> |       | SeqNo: <b>3388802</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.97                            | 0.025 | 1.000                                        | 0           | 97.4                | 80       | 120       |      |          |      |
| Toluene                     | 0.98                            | 0.050 | 1.000                                        | 0           | 98.4                | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.99                            | 0.050 | 1.000                                        | 0           | 99.1                | 80       | 120       |      |          |      |
| Xylenes, Total              | 3.0                             | 0.10  | 3.000                                        | 0           | 99.5                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.0                             |       | 1.000                                        |             | 99.9                | 70       | 130       |      |          |      |

| Sample ID: <b>mb-72537</b>  | SampType: <b>MBLK</b>           |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72537</b>          |       | RunNo: <b>93875</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>1/10/2023</b> | Analysis Date: <b>1/11/2023</b> |       | SeqNo: <b>3388803</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                              | 0.025 |                                              |             |                     |          |           |      |          |      |
| Toluene                     | ND                              | 0.050 |                                              |             |                     |          |           |      |          |      |
| Ethylbenzene                | ND                              | 0.050 |                                              |             |                     |          |           |      |          |      |
| Xylenes, Total              | ND                              | 0.10  |                                              |             |                     |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.98                            |       | 1.000                                        |             | 98.4                | 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 Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301273

17-Jan-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>2301273-003ams</b> | SampType: <b>MS4</b>            | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH22-37 4'</b>     | Batch ID: <b>72543</b>          | RunNo: <b>93893</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/10/2023</b>      | Analysis Date: <b>1/11/2023</b> | SeqNo: <b>3389434</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.95                            | 0.024                                                   | 0.9794              | 0           | 97.1 | 75.8     | 123       |      |          |      |
| Toluene                          | 1.1                             | 0.049                                                   | 0.9794              | 0           | 111  | 68.3     | 130       |      |          |      |
| Ethylbenzene                     | 1.1                             | 0.049                                                   | 0.9794              | 0           | 112  | 76.6     | 132       |      |          |      |
| Xylenes, Total                   | 3.5                             | 0.098                                                   | 2.938               | 0           | 118  | 74.7     | 132       |      |          |      |
| Surr: 1,2-Dichloroethane-d4      | 0.39                            |                                                         | 0.4897              |             | 80.2 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.56                            |                                                         | 0.4897              |             | 115  | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane       | 0.42                            |                                                         | 0.4897              |             | 84.9 | 70       | 130       |      |          |      |
| Surr: Toluene-d8                 | 0.54                            |                                                         | 0.4897              |             | 111  | 70       | 130       |      |          |      |

| Sample ID: <b>2301273-003amsd</b> | SampType: <b>MSD4</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH22-37 4'</b>      | Batch ID: <b>72543</b>          | RunNo: <b>93893</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/10/2023</b>       | Analysis Date: <b>1/11/2023</b> | SeqNo: <b>3389435</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                           | 0.96                            | 0.024                                                   | 0.9728              | 0           | 99.0 | 75.8     | 123       | 1.23 | 20       |      |
| Toluene                           | 1.1                             | 0.049                                                   | 0.9728              | 0           | 109  | 68.3     | 130       | 1.96 | 20       |      |
| Ethylbenzene                      | 1.1                             | 0.049                                                   | 0.9728              | 0           | 111  | 76.6     | 132       | 1.72 | 20       |      |
| Xylenes, Total                    | 3.4                             | 0.097                                                   | 2.918               | 0           | 116  | 74.7     | 132       | 1.58 | 20       |      |
| Surr: 1,2-Dichloroethane-d4       | 0.40                            |                                                         | 0.4864              |             | 81.3 | 70       | 130       | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene        | 0.54                            |                                                         | 0.4864              |             | 111  | 70       | 130       | 0    | 0        |      |
| Surr: Dibromofluoromethane        | 0.41                            |                                                         | 0.4864              |             | 84.5 | 70       | 130       | 0    | 0        |      |
| Surr: Toluene-d8                  | 0.53                            |                                                         | 0.4864              |             | 109  | 70       | 130       | 0    | 0        |      |

| Sample ID: <b>Ics-72543</b> | SampType: <b>LCS4</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>   | Batch ID: <b>72543</b>          | RunNo: <b>93893</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/10/2023</b> | Analysis Date: <b>1/11/2023</b> | SeqNo: <b>3389456</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.96                            | 0.025                                                   | 1.000               | 0           | 95.9 | 80       | 120       |      |          |      |
| Toluene                     | 1.1                             | 0.050                                                   | 1.000               | 0           | 109  | 80       | 120       |      |          |      |
| Ethylbenzene                | 1.1                             | 0.050                                                   | 1.000               | 0           | 111  | 80       | 120       |      |          |      |
| Xylenes, Total              | 3.4                             | 0.10                                                    | 3.000               | 0           | 115  | 80       | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 0.44                            |                                                         | 0.5000              |             | 88.5 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.57                            |                                                         | 0.5000              |             | 115  | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.43                            |                                                         | 0.5000              |             | 86.3 | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.55                            |                                                         | 0.5000              |             | 111  | 70       | 130       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301273

17-Jan-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>mb-72543</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72543</b>          | RunNo: <b>93893</b>                                     |           |             |                     |          |           |      |          |      |
| Prep Date: <b>1/10/2023</b> | Analysis Date: <b>1/11/2023</b> | SeqNo: <b>3389457</b>                                   |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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 | 0.36                            |                                                         | 0.5000    |             | 72.5                | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.55                            |                                                         | 0.5000    |             | 110                 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.40                            |                                                         | 0.5000    |             | 80.4                | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.57                            |                                                         | 0.5000    |             | 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 Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301273

17-Jan-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>2301273-002ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH22-37 2'</b>     | Batch ID: <b>72543</b>          | RunNo: <b>93893</b>                                   |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/10/2023</b>      | Analysis Date: <b>1/11/2023</b> | SeqNo: <b>3389459</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 22                              | 5.0                                                   | 24.88               | 0           | 90.2 | 65.9     | 123       |      |          |      |
| Surr: BFB                        | 570                             |                                                       | 497.5               |             | 115  | 70       | 130       |      |          |      |

| Sample ID: <b>2301273-002amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |       |          |      |
|-----------------------------------|---------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: <b>BH22-37 2'</b>      | Batch ID: <b>72543</b>          | RunNo: <b>93893</b>                                   |                     |             |      |          |           |       |          |      |
| Prep Date: <b>1/10/2023</b>       | Analysis Date: <b>1/11/2023</b> | SeqNo: <b>3389460</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |       |          |      |
| Analyte                           | Result                          | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 22                              | 5.0                                                   | 24.80               | 0           | 90.6 | 65.9     | 123       | 0.145 | 20       |      |
| Surr: BFB                         | 580                             |                                                       | 496.0               |             | 117  | 70       | 130       | 0     | 0        |      |

| Sample ID: <b>lcs-72543</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>72543</b>          | RunNo: <b>93893</b>                                   |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/10/2023</b>   | Analysis Date: <b>1/11/2023</b> | SeqNo: <b>3389480</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 23                              | 5.0                                                   | 25.00               | 0           | 90.8 | 70       | 130       |      |          |      |
| Surr: BFB                     | 560                             |                                                       | 500.0               |             | 112  | 70       | 130       |      |          |      |

| Sample ID: <b>mb-72543</b>    | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>72543</b>          | RunNo: <b>93893</b>                                   |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/10/2023</b>   | Analysis Date: <b>1/11/2023</b> | SeqNo: <b>3389481</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0                                                   |                     |             |      |          |           |      |          |      |
| Surr: BFB                     | 620                             |                                                       | 500.0               |             | 125  | 70       | 130       |      |          |      |

**Qualifiers:**

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2301273 RcptNo: 1

Received By: Cheyenne Cason 1/7/2023 8:30:00 AM [Signature]

Completed By: Cheyenne Cason 1/7/2023 9:18:28 AM [Signature]

Reviewed By: [Signature] 1/7/23

Chain of Custody

1. Is Chain of Custody complete? Yes [ ] No [x] Not Present [ ]

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes [x] No [ ] NA [ ]

4. Were all samples received at a temperature of >0° C to 6.0°C Yes [x] No [ ] NA [ ]

5. Sample(s) in proper container(s)? Yes [x] No [ ]

6. Sufficient sample volume for indicated test(s)? Yes [x] No [ ]

7. Are samples (except VOA and ONG) properly preserved? Yes [x] No [ ]

8. Was preservative added to bottles? Yes [ ] No [x] NA [ ]

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [ ] No [ ] NA [x]

10. Were any sample containers received broken? Yes [ ] No [x]

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes [x] No [ ]

12. Are matrices correctly identified on Chain of Custody? Yes [x] No [ ]

13. Is it clear what analyses were requested? Yes [x] No [ ]

14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes [x] No [ ]

# of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: [Signature] 1/7/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [x]

Person Notified: [ ] Date: [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 3.0, Good, Not Present, Yogi, ,





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

January 30, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: North Pure Gold 8 Federal 006 East

OrderNo.: 2301766

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 30 sample(s) on 1/20/2023 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-01 0-1'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 8:45:00 AM

**Lab ID:** 2301766-001

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 1/24/2023 1:01:50 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/24/2023 1:01:50 PM  |
| Surr: DNOP                                       | 111    | 69-147   |      | %Rec  | 1  | 1/24/2023 1:01:50 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 1/25/2023 12:16:00 AM |
| Surr: BFB                                        | 89.9   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 12:16:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/25/2023 12:16:00 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 1/25/2023 12:16:00 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 1/25/2023 12:16:00 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 1/25/2023 12:16:00 AM |
| Surr: 4-Bromofluorobenzene                       | 92.5   | 70-130   |      | %Rec  | 1  | 1/25/2023 12:16:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/26/2023 6:32:36 PM  |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-02 0-1'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 8:50:00 AM

**Lab ID:** 2301766-002

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.4      |      | mg/Kg | 1  | 1/24/2023 7:12:48 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 1/24/2023 7:12:48 PM  |
| Surr: DNOP                                       | 117    | 69-147   |      | %Rec  | 1  | 1/24/2023 7:12:48 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/25/2023 12:36:00 AM |
| Surr: BFB                                        | 89.6   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 12:36:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/25/2023 12:36:00 AM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/25/2023 12:36:00 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/25/2023 12:36:00 AM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/25/2023 12:36:00 AM |
| Surr: 4-Bromofluorobenzene                       | 93.3   | 70-130   |      | %Rec  | 1  | 1/25/2023 12:36:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/26/2023 7:11:11 PM  |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-03 0-1'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 8:55:00 AM

**Lab ID:** 2301766-003

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 1/24/2023 7:26:30 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/24/2023 7:26:30 PM  |
| Surr: DNOP                                       | 121    | 69-147   |      | %Rec  | 1  | 1/24/2023 7:26:30 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/25/2023 12:55:00 AM |
| Surr: BFB                                        | 93.7   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 12:55:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/25/2023 12:55:00 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/25/2023 12:55:00 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/25/2023 12:55:00 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 1/25/2023 12:55:00 AM |
| Surr: 4-Bromofluorobenzene                       | 93.2   | 70-130   |      | %Rec  | 1  | 1/25/2023 12:55:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/26/2023 8:15:29 PM  |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-04 0-4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 9:00:00 AM

**Lab ID:** 2301766-004

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 1/24/2023 7:54:10 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 1/24/2023 7:54:10 PM |
| Surr: DNOP                                       | 124    | 69-147   |      | %Rec  | 1  | 1/24/2023 7:54:10 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/25/2023 1:34:00 AM |
| Surr: BFB                                        | 89.8   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 1:34:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/25/2023 1:34:00 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/25/2023 1:34:00 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/25/2023 1:34:00 AM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 1/25/2023 1:34:00 AM |
| Surr: 4-Bromofluorobenzene                       | 92.6   | 70-130   |      | %Rec  | 1  | 1/25/2023 1:34:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/26/2023 8:28:21 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-05 0-4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 9:05:00 AM

**Lab ID:** 2301766-005

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 1/24/2023 8:08:19 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/24/2023 8:08:19 PM |
| Surr: DNOP                                       | 106    | 69-147   |      | %Rec  | 1  | 1/24/2023 8:08:19 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/25/2023 1:54:00 AM |
| Surr: BFB                                        | 92.8   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 1:54:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/25/2023 1:54:00 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/25/2023 1:54:00 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/25/2023 1:54:00 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 1/25/2023 1:54:00 AM |
| Surr: 4-Bromofluorobenzene                       | 92.4   | 70-130   |      | %Rec  | 1  | 1/25/2023 1:54:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/26/2023 8:41:13 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-06 0-1'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 9:10:00 AM

**Lab ID:** 2301766-006

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 1/24/2023 8:21:57 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/24/2023 8:21:57 PM |
| Surr: DNOP                                       | 114    | 69-147   |      | %Rec  | 1  | 1/24/2023 8:21:57 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/25/2023 2:13:00 AM |
| Surr: BFB                                        | 88.3   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 2:13:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/25/2023 2:13:00 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/25/2023 2:13:00 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/25/2023 2:13:00 AM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 1/25/2023 2:13:00 AM |
| Surr: 4-Bromofluorobenzene                       | 92.9   | 70-130   |      | %Rec  | 1  | 1/25/2023 2:13:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>  |
| Chloride                                         | ND     | 61       |      | mg/Kg | 20 | 1/26/2023 8:54:05 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-07 1-4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 9:15:00 AM

**Lab ID:** 2301766-007

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 10       |      | mg/Kg | 1  | 1/24/2023 8:35:56 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 1/24/2023 8:35:56 PM |
| Surr: DNOP                                       | 109    | 69-147   |      | %Rec  | 1  | 1/24/2023 8:35:56 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 1/25/2023 2:33:00 AM |
| Surr: BFB                                        | 93.6   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 2:33:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/25/2023 2:33:00 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 1/25/2023 2:33:00 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 1/25/2023 2:33:00 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 1/25/2023 2:33:00 AM |
| Surr: 4-Bromofluorobenzene                       | 92.7   | 70-130   |      | %Rec  | 1  | 1/25/2023 2:33:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/26/2023 9:06:56 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-08 0-4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 9:20:00 AM

**Lab ID:** 2301766-008

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 1/24/2023 8:49:47 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 1/24/2023 8:49:47 PM |
| Surr: DNOP                                       | 107    | 69-147   |      | %Rec  | 1  | 1/24/2023 8:49:47 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/25/2023 2:52:00 AM |
| Surr: BFB                                        | 90.9   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 2:52:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/25/2023 2:52:00 AM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/25/2023 2:52:00 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/25/2023 2:52:00 AM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/25/2023 2:52:00 AM |
| Surr: 4-Bromofluorobenzene                       | 91.5   | 70-130   |      | %Rec  | 1  | 1/25/2023 2:52:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>  |
| Chloride                                         | 130    | 60       |      | mg/Kg | 20 | 1/26/2023 9:19:48 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-09 0-4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 9:25:00 AM

**Lab ID:** 2301766-009

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.7      |      | mg/Kg | 1  | 1/24/2023 9:03:40 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 1/24/2023 9:03:40 PM |
| Surr: DNOP                                       | 106    | 69-147   |      | %Rec  | 1  | 1/24/2023 9:03:40 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/25/2023 3:11:00 AM |
| Surr: BFB                                        | 93.3   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 3:11:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/25/2023 3:11:00 AM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/25/2023 3:11:00 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/25/2023 3:11:00 AM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 1/25/2023 3:11:00 AM |
| Surr: 4-Bromofluorobenzene                       | 93.0   | 70-130   |      | %Rec  | 1  | 1/25/2023 3:11:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>  |
| Chloride                                         | 61     | 60       |      | mg/Kg | 20 | 1/26/2023 9:32:40 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-10 0-4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 9:30:00 AM

**Lab ID:** 2301766-010

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 1/24/2023 9:17:37 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/24/2023 9:17:37 PM |
| Surr: DNOP                                       | 104    | 69-147   |      | %Rec  | 1  | 1/24/2023 9:17:37 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/25/2023 3:31:00 AM |
| Surr: BFB                                        | 90.3   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 3:31:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/25/2023 3:31:00 AM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/25/2023 3:31:00 AM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/25/2023 3:31:00 AM |
| Xylenes, Total                                   | ND     | 0.091    |      | mg/Kg | 1  | 1/25/2023 3:31:00 AM |
| Surr: 4-Bromofluorobenzene                       | 92.0   | 70-130   |      | %Rec  | 1  | 1/25/2023 3:31:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/26/2023 9:45:32 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-11 0-4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 9:35:00 AM

**Lab ID:** 2301766-011

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 10       |      | mg/Kg | 1  | 1/24/2023 9:30:57 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 1/24/2023 9:30:57 PM |
| Surr: DNOP                                       | 107    | 69-147   |      | %Rec  | 1  | 1/24/2023 9:30:57 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/25/2023 3:50:00 AM |
| Surr: BFB                                        | 87.3   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 3:50:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/25/2023 3:50:00 AM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/25/2023 3:50:00 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/25/2023 3:50:00 AM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/25/2023 3:50:00 AM |
| Surr: 4-Bromofluorobenzene                       | 90.9   | 70-130   |      | %Rec  | 1  | 1/25/2023 3:50:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/26/2023 9:58:24 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-12 0-4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 9:40:00 AM

**Lab ID:** 2301766-012

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.7      |      | mg/Kg | 1  | 1/24/2023 9:44:57 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/24/2023 9:44:57 PM  |
| Surr: DNOP                                       | 110    | 69-147   |      | %Rec  | 1  | 1/24/2023 9:44:57 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/25/2023 4:10:00 AM  |
| Surr: BFB                                        | 97.2   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 4:10:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/25/2023 4:10:00 AM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/25/2023 4:10:00 AM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/25/2023 4:10:00 AM  |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 1/25/2023 4:10:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 92.7   | 70-130   |      | %Rec  | 1  | 1/25/2023 4:10:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 160    | 60       |      | mg/Kg | 20 | 1/26/2023 10:11:15 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-13 0-4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 9:45:00 AM

**Lab ID:** 2301766-013

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 10       |      | mg/Kg | 1  | 1/24/2023 9:58:48 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 1/24/2023 9:58:48 PM  |
| Surr: DNOP                                       | 138    | 69-147   |      | %Rec  | 1  | 1/24/2023 9:58:48 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/25/2023 4:29:00 AM  |
| Surr: BFB                                        | 94.0   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 4:29:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/25/2023 4:29:00 AM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/25/2023 4:29:00 AM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/25/2023 4:29:00 AM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 1/25/2023 4:29:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 91.9   | 70-130   |      | %Rec  | 1  | 1/25/2023 4:29:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/26/2023 10:49:53 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-14 0-4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 9:50:00 AM

**Lab ID:** 2301766-014

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 10       |      | mg/Kg | 1  | 1/24/2023 10:12:35 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 1/24/2023 10:12:35 PM |
| Surr: DNOP                                       | 112    | 69-147   |      | %Rec  | 1  | 1/24/2023 10:12:35 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/25/2023 5:08:00 AM  |
| Surr: BFB                                        | 97.7   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 5:08:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/25/2023 5:08:00 AM  |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/25/2023 5:08:00 AM  |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/25/2023 5:08:00 AM  |
| Xylenes, Total                                   | ND     | 0.092    |      | mg/Kg | 1  | 1/25/2023 5:08:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 94.9   | 70-130   |      | %Rec  | 1  | 1/25/2023 5:08:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/26/2023 11:02:45 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-15 0-4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 9:55:00 AM

**Lab ID:** 2301766-015

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 1/24/2023 10:26:39 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 1/24/2023 10:26:39 PM |
| Surr: DNOP                                       | 109    | 69-147   |      | %Rec  | 1  | 1/24/2023 10:26:39 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/25/2023 5:28:00 AM  |
| Surr: BFB                                        | 91.7   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 5:28:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/25/2023 5:28:00 AM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/25/2023 5:28:00 AM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/25/2023 5:28:00 AM  |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/25/2023 5:28:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 92.8   | 70-130   |      | %Rec  | 1  | 1/25/2023 5:28:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 130    | 60       |      | mg/Kg | 20 | 1/26/2023 11:15:36 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-16 0-4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 10:00:00 AM

**Lab ID:** 2301766-016

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.3      |      | mg/Kg | 1  | 1/25/2023 9:46:07 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 1/25/2023 9:46:07 AM  |
| Surr: DNOP                                       | 106    | 69-147   |      | %Rec  | 1  | 1/25/2023 9:46:07 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/26/2023 6:34:00 PM  |
| Surr: BFB                                        | 98.6   | 37.7-212 |      | %Rec  | 1  | 1/26/2023 6:34:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/26/2023 6:34:00 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/26/2023 6:34:00 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/26/2023 6:34:00 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 1/26/2023 6:34:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 96.5   | 70-130   |      | %Rec  | 1  | 1/26/2023 6:34:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/26/2023 11:28:27 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-17 0-4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 10:05:00 AM

**Lab ID:** 2301766-017

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.4      |      | mg/Kg | 1  | 1/25/2023 10:17:31 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 42       |      | mg/Kg | 1  | 1/25/2023 10:17:31 AM |
| Surr: DNOP                                       | 102    | 69-147   |      | %Rec  | 1  | 1/25/2023 10:17:31 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/26/2023 7:33:00 PM  |
| Surr: BFB                                        | 96.0   | 37.7-212 |      | %Rec  | 1  | 1/26/2023 7:33:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/26/2023 7:33:00 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/26/2023 7:33:00 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/26/2023 7:33:00 PM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 1/26/2023 7:33:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 96.3   | 70-130   |      | %Rec  | 1  | 1/26/2023 7:33:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 91     | 61       |      | mg/Kg | 20 | 1/26/2023 11:41:18 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-18 0-4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 10:10:00 AM

**Lab ID:** 2301766-018

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.4      |      | mg/Kg | 1  | 1/25/2023 10:28:04 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 42       |      | mg/Kg | 1  | 1/25/2023 10:28:04 AM |
| Surr: DNOP                                       | 100    | 69-147   |      | %Rec  | 1  | 1/25/2023 10:28:04 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 1/26/2023 8:31:00 PM  |
| Surr: BFB                                        | 92.6   | 37.7-212 |      | %Rec  | 1  | 1/26/2023 8:31:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/26/2023 8:31:00 PM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 1/26/2023 8:31:00 PM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 1/26/2023 8:31:00 PM  |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 1/26/2023 8:31:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 93.6   | 70-130   |      | %Rec  | 1  | 1/26/2023 8:31:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/26/2023 11:54:10 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-19 0-4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 10:15:00 AM

**Lab ID:** 2301766-019

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 1/25/2023 10:38:32 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/25/2023 10:38:32 AM |
| Surr: DNOP                                       | 103    | 69-147   |      | %Rec  | 1  | 1/25/2023 10:38:32 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/26/2023 8:51:00 PM  |
| Surr: BFB                                        | 94.5   | 37.7-212 |      | %Rec  | 1  | 1/26/2023 8:51:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/26/2023 8:51:00 PM  |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/26/2023 8:51:00 PM  |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/26/2023 8:51:00 PM  |
| Xylenes, Total                                   | ND     | 0.091    |      | mg/Kg | 1  | 1/26/2023 8:51:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 94.2   | 70-130   |      | %Rec  | 1  | 1/26/2023 8:51:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 130    | 60       |      | mg/Kg | 20 | 1/27/2023 12:07:03 AM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-01 1'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 10:45:00 AM

**Lab ID:** 2301766-020

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.3      |      | mg/Kg | 1  | 1/25/2023 10:49:05 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 1/25/2023 10:49:05 AM |
| Surr: DNOP                                       | 111    | 69-147   |      | %Rec  | 1  | 1/25/2023 10:49:05 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/26/2023 9:10:00 PM  |
| Surr: BFB                                        | 92.1   | 37.7-212 |      | %Rec  | 1  | 1/26/2023 9:10:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/26/2023 9:10:00 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/26/2023 9:10:00 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/26/2023 9:10:00 PM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 1/26/2023 9:10:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 93.6   | 70-130   |      | %Rec  | 1  | 1/26/2023 9:10:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 66     | 60       |      | mg/Kg | 20 | 1/27/2023 12:19:54 AM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-02 1'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 10:50:00 AM

**Lab ID:** 2301766-021

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.5      |      | mg/Kg | 1  | 1/25/2023 10:59:39 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 43       |      | mg/Kg | 1  | 1/25/2023 10:59:39 AM |
| Surr: DNOP                                       | 119    | 69-147   |      | %Rec  | 1  | 1/25/2023 10:59:39 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/26/2023 9:30:00 PM  |
| Surr: BFB                                        | 90.8   | 37.7-212 |      | %Rec  | 1  | 1/26/2023 9:30:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/26/2023 9:30:00 PM  |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/26/2023 9:30:00 PM  |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/26/2023 9:30:00 PM  |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/26/2023 9:30:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 93.9   | 70-130   |      | %Rec  | 1  | 1/26/2023 9:30:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 160    | 60       |      | mg/Kg | 20 | 1/26/2023 8:48:42 PM  |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-03 1'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 10:55:00 AM

**Lab ID:** 2301766-022

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 1/25/2023 11:10:13 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/25/2023 11:10:13 AM |
| Surr: DNOP                                       | 106    | 69-147   |      | %Rec  | 1  | 1/25/2023 11:10:13 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/26/2023 9:49:00 PM  |
| Surr: BFB                                        | 93.5   | 37.7-212 |      | %Rec  | 1  | 1/26/2023 9:49:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/26/2023 9:49:00 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/26/2023 9:49:00 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/26/2023 9:49:00 PM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 1/26/2023 9:49:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 94.3   | 70-130   |      | %Rec  | 1  | 1/26/2023 9:49:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 110    | 60       |      | mg/Kg | 20 | 1/26/2023 9:53:08 PM  |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-04 1'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 11:00:00 AM

**Lab ID:** 2301766-023

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 1/25/2023 11:31:24 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 1/25/2023 11:31:24 AM |
| Surr: DNOP                                       | 110    | 69-147   |      | %Rec  | 1  | 1/25/2023 11:31:24 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/26/2023 10:09:00 PM |
| Surr: BFB                                        | 93.9   | 37.7-212 |      | %Rec  | 1  | 1/26/2023 10:09:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/26/2023 10:09:00 PM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/26/2023 10:09:00 PM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/26/2023 10:09:00 PM |
| Xylenes, Total                                   | ND     | 0.092    |      | mg/Kg | 1  | 1/26/2023 10:09:00 PM |
| Surr: 4-Bromofluorobenzene                       | 94.8   | 70-130   |      | %Rec  | 1  | 1/26/2023 10:09:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/26/2023 10:31:43 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-05 1'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 11:05:00 AM

**Lab ID:** 2301766-024

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.1      |      | mg/Kg | 1  | 1/25/2023 11:42:01 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 1/25/2023 11:42:01 AM |
| Surr: DNOP                                       | 106    | 69-147   |      | %Rec  | 1  | 1/25/2023 11:42:01 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/26/2023 10:28:00 PM |
| Surr: BFB                                        | 93.0   | 37.7-212 |      | %Rec  | 1  | 1/26/2023 10:28:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/26/2023 10:28:00 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/26/2023 10:28:00 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/26/2023 10:28:00 PM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 1/26/2023 10:28:00 PM |
| Surr: 4-Bromofluorobenzene                       | 95.4   | 70-130   |      | %Rec  | 1  | 1/26/2023 10:28:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 71     | 60       |      | mg/Kg | 20 | 1/26/2023 10:44:35 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-06 1'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 11:10:00 AM

**Lab ID:** 2301766-025

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 1/25/2023 11:52:37 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 1/25/2023 11:52:37 AM |
| Surr: DNOP                                       | 104    | 69-147   |      | %Rec  | 1  | 1/25/2023 11:52:37 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/26/2023 10:48:00 PM |
| Surr: BFB                                        | 92.4   | 37.7-212 |      | %Rec  | 1  | 1/26/2023 10:48:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/26/2023 10:48:00 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/26/2023 10:48:00 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/26/2023 10:48:00 PM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 1/26/2023 10:48:00 PM |
| Surr: 4-Bromofluorobenzene                       | 95.5   | 70-130   |      | %Rec  | 1  | 1/26/2023 10:48:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 70     | 60       |      | mg/Kg | 20 | 1/26/2023 10:57:27 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-07 1'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 11:15:00 AM

**Lab ID:** 2301766-026

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 1/25/2023 12:56:10 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 1/25/2023 12:56:10 PM |
| Surr: DNOP                                       | 104    | 69-147   |      | %Rec  | 1  | 1/25/2023 12:56:10 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/26/2023 11:27:00 PM |
| Surr: BFB                                        | 95.5   | 37.7-212 |      | %Rec  | 1  | 1/26/2023 11:27:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/26/2023 11:27:00 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/26/2023 11:27:00 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/26/2023 11:27:00 PM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 1/26/2023 11:27:00 PM |
| Surr: 4-Bromofluorobenzene                       | 92.6   | 70-130   |      | %Rec  | 1  | 1/26/2023 11:27:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 81     | 61       |      | mg/Kg | 20 | 1/26/2023 11:10:19 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-08 1'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 11:20:00 AM

**Lab ID:** 2301766-027

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 1/25/2023 1:06:48 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/25/2023 1:06:48 PM  |
| Surr: DNOP                                       | 119    | 69-147   |      | %Rec  | 1  | 1/25/2023 1:06:48 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/26/2023 11:46:00 PM |
| Surr: BFB                                        | 90.1   | 37.7-212 |      | %Rec  | 1  | 1/26/2023 11:46:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/26/2023 11:46:00 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/26/2023 11:46:00 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/26/2023 11:46:00 PM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 1/26/2023 11:46:00 PM |
| Surr: 4-Bromofluorobenzene                       | 94.1   | 70-130   |      | %Rec  | 1  | 1/26/2023 11:46:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 86     | 60       |      | mg/Kg | 20 | 1/26/2023 11:23:11 PM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-09 1'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 11:25:00 AM

**Lab ID:** 2301766-028

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.0      |      | mg/Kg | 1  | 1/25/2023 1:17:26 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 1/25/2023 1:17:26 PM  |
| Surr: DNOP                                       | 111    | 69-147   |      | %Rec  | 1  | 1/25/2023 1:17:26 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/27/2023 12:06:00 AM |
| Surr: BFB                                        | 91.3   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 12:06:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/27/2023 12:06:00 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/27/2023 12:06:00 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/27/2023 12:06:00 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 1/27/2023 12:06:00 AM |
| Surr: 4-Bromofluorobenzene                       | 93.3   | 70-130   |      | %Rec  | 1  | 1/27/2023 12:06:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 110    | 60       |      | mg/Kg | 20 | 1/27/2023 12:01:47 AM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-10 1'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 11:30:00 AM

**Lab ID:** 2301766-029

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 1/25/2023 1:28:05 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/25/2023 1:28:05 PM  |
| Surr: DNOP                                       | 104    | 69-147   |      | %Rec  | 1  | 1/25/2023 1:28:05 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 1/27/2023 12:25:00 AM |
| Surr: BFB                                        | 95.0   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 12:25:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/27/2023 12:25:00 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 1/27/2023 12:25:00 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 1/27/2023 12:25:00 AM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 1/27/2023 12:25:00 AM |
| Surr: 4-Bromofluorobenzene                       | 92.9   | 70-130   |      | %Rec  | 1  | 1/27/2023 12:25:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/27/2023 12:14:38 AM |

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

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

**Analytical Report**

Lab Order **2301766**

Date Reported: **1/30/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-11 1'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/18/2023 11:35:00 AM

**Lab ID:** 2301766-030

**Matrix:** SOIL

**Received Date:** 1/20/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 1/25/2023 1:38:44 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 1/25/2023 1:38:44 PM  |
| Surr: DNOP                                       | 102    | 69-147   |      | %Rec  | 1  | 1/25/2023 1:38:44 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 1/27/2023 12:44:00 AM |
| Surr: BFB                                        | 92.2   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 12:44:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/27/2023 12:44:00 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 1/27/2023 12:44:00 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 1/27/2023 12:44:00 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 1/27/2023 12:44:00 AM |
| Surr: 4-Bromofluorobenzene                       | 93.7   | 70-130   |      | %Rec  | 1  | 1/27/2023 12:44:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/27/2023 12:27:30 AM |

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301766

30-Jan-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>MB-72856</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72856</b>          | RunNo: <b>94223</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/26/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3403035</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-72856</b> | SampType: <b>ics</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72856</b>          | RunNo: <b>94223</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/26/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3403036</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 92.9 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-72857</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72857</b>          | RunNo: <b>94230</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/26/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3403177</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-72857</b> | SampType: <b>ics</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72857</b>          | RunNo: <b>94230</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/26/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3403178</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 15                              | 1.5                                       | 15.00               | 0           | 98.4 | 90       | 110       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301766

30-Jan-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>MB-72763</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |                     |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>72763</b>          | RunNo: <b>94149</b>                                        |           |             |                     |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b>    | Analysis Date: <b>1/24/2023</b> | SeqNo: <b>3399774</b>                                      |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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                     | 9.8                             |                                                            | 10.00     |             | 98.4                | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-72763</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72763</b>          | RunNo: <b>94149</b>                                        |           |             |                     |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b> | Analysis Date: <b>1/24/2023</b> | SeqNo: <b>3399775</b>                                      |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 42                              | 10                                                         | 50.00     | 0           | 84.3                | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 4.5                             |                                                            | 5.000     |             | 90.2                | 69       | 147       |      |          |      |

| Sample ID: <b>2301766-001AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |                     |          |           |      |          |      |
|----------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>WS23-01 0-1'</b>   | Batch ID: <b>72763</b>          | RunNo: <b>94149</b>                                        |           |             |                     |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b>      | Analysis Date: <b>1/24/2023</b> | SeqNo: <b>3399784</b>                                      |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 48                              | 10                                                         | 50.00     | 0           | 97.0                | 54.2     | 135       |      |          |      |
| Surr: DNOP                       | 5.2                             |                                                            | 5.000     |             | 105                 | 69       | 147       |      |          |      |

| Sample ID: <b>2301766-001AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |                     |          |           |       |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|---------------------|----------|-----------|-------|----------|------|
| Client ID: <b>WS23-01 0-1'</b>    | Batch ID: <b>72763</b>          | RunNo: <b>94149</b>                                        |           |             |                     |          |           |       |          |      |
| Prep Date: <b>1/23/2023</b>       | Analysis Date: <b>1/24/2023</b> | SeqNo: <b>3399785</b>                                      |           |             | Units: <b>mg/Kg</b> |          |           |       |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 49                              | 9.8                                                        | 48.88     | 0           | 99.4                | 54.2     | 135       | 0.183 | 29.2     |      |
| Surr: DNOP                        | 5.1                             |                                                            | 4.888     |             | 104                 | 69       | 147       | 0     | 0        |      |

| Sample ID: <b>2301766-016AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |                     |          |           |      |          |      |
|----------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>WS23-16 0-4'</b>   | Batch ID: <b>72784</b>          | RunNo: <b>94184</b>                                        |           |             |                     |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>      | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3401237</b>                                      |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 48                              | 10                                                         | 49.90     | 0           | 97.1                | 54.2     | 135       |      |          |      |
| Surr: DNOP                       | 5.6                             |                                                            | 4.990     |             | 112                 | 69       | 147       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301766

30-Jan-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>2301766-016AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>WS23-16 0-4'</b>    | Batch ID: <b>72784</b>          | RunNo: <b>94184</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>       | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3401238</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 41                              | 9.0                                                        | 45.05               | 0           | 91.8 | 54.2     | 135       | 15.9 | 29.2     |      |
| Surr: DNOP                        | 4.8                             |                                                            | 4.505               |             | 106  | 69       | 147       | 0    | 0        |      |

| Sample ID: <b>LCS-72784</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72784</b>          | RunNo: <b>94184</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b> | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3401254</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 51                              | 10                                                         | 50.00               | 0           | 102  | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 5.8                             |                                                            | 5.000               |             | 116  | 69       | 147       |      |          |      |

| Sample ID: <b>MB-72784</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>72784</b>          | RunNo: <b>94184</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>    | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3401255</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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                     | 10                              |                                                            | 10.00               |             | 104  | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-72779</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72779</b>          | RunNo: <b>94189</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b> | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3401583</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 3.7                             |                                                            | 5.000              |             | 74.7 | 69       | 147       |      |          |      |

| Sample ID: <b>MB-72779</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72779</b>          | RunNo: <b>94189</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b> | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3401586</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 7.3                             |                                                            | 10.00              |             | 73.5 | 69       | 147       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301766

30-Jan-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>ics-72758</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>72758</b>          | RunNo: <b>94152</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b>   | Analysis Date: <b>1/24/2023</b> | SeqNo: <b>3400159</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 27                              | 5.0                                               | 25.00               | 0           | 106  | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 1100                            |                                                   | 1000                |             | 109  | 37.7     | 212       |      |          |      |

| Sample ID: <b>mb-72758</b>    | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>72758</b>          | RunNo: <b>94152</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b>   | Analysis Date: <b>1/24/2023</b> | SeqNo: <b>3400160</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0                                               |                     |             |      |          |           |      |          |      |
| Surr: BFB                     | 950                             |                                                   | 1000                |             | 94.8 | 37.7     | 212       |      |          |      |

| Sample ID: <b>mb-72765</b>    | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>72765</b>          | RunNo: <b>94203</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b>   | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3402090</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0                                               |                     |             |      |          |           |      |          |      |
| Surr: BFB                     | 950                             |                                                   | 1000                |             | 94.8 | 37.7     | 212       |      |          |      |

| Sample ID: <b>2301766-016ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>WS23-16 0-4'</b>   | Batch ID: <b>72765</b>          | RunNo: <b>94203</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b>      | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3402838</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 27                              | 4.8                                               | 24.20               | 0           | 110  | 70       | 130       |      |          |      |
| Surr: BFB                        | 1100                            |                                                   | 968.1               |             | 114  | 37.7     | 212       |      |          |      |

| Sample ID: <b>2301766-016amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>WS23-16 0-4'</b>    | Batch ID: <b>72765</b>          | RunNo: <b>94203</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b>       | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3402841</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 26                              | 4.9                                               | 24.27               | 0           | 108  | 70       | 130       | 1.94 | 20       |      |
| Surr: BFB                         | 1000                            |                                                   | 970.9               |             | 105  | 37.7     | 212       | 0    | 0        |      |

| Sample ID: <b>ics-72765</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72765</b>          | RunNo: <b>94203</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3403294</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301766

30-Jan-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>Ics-72765</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>72765</b>          | RunNo: <b>94203</b>                               |           |             |                     |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b>   | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3403294</b>                             |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 27                              | 5.0                                               | 25.00     | 0           | 109                 | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 1100                            |                                                   | 1000      |             | 107                 | 37.7     | 212       |      |          |      |

**Qualifiers:**

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- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301766

30-Jan-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>ics-72758</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72758</b>          | RunNo: <b>94152</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b> | Analysis Date: <b>1/24/2023</b> | SeqNo: <b>3400370</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.93                            | 0.025                                        | 1.000               | 0           | 93.0 | 80       | 120       |      |          |      |
| Toluene                     | 0.93                            | 0.050                                        | 1.000               | 0           | 92.6 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.91                            | 0.050                                        | 1.000               | 0           | 91.4 | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.7                             | 0.10                                         | 3.000               | 0           | 91.3 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.97                            |                                              | 1.000               |             | 97.4 | 70       | 130       |      |          |      |

| Sample ID: <b>mb-72758</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72758</b>          | RunNo: <b>94152</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b> | Analysis Date: <b>1/24/2023</b> | SeqNo: <b>3400371</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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               |             | 93.7 | 70       | 130       |      |          |      |

| Sample ID: <b>mb-72765</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72765</b>          | RunNo: <b>94203</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3402091</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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  | 0.97                            |                                              | 1.000               |             | 97.1 | 70       | 130       |      |          |      |

| Sample ID: <b>ics-72765</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72765</b>          | RunNo: <b>94203</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3403068</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.95                            | 0.025                                        | 1.000               | 0           | 95.0 | 80       | 120       |      |          |      |
| Toluene                     | 0.95                            | 0.050                                        | 1.000               | 0           | 94.6 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.93                            | 0.050                                        | 1.000               | 0           | 93.3 | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.8                             | 0.10                                         | 3.000               | 0           | 92.6 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.97                            |                                              | 1.000               |             | 97.3 | 70       | 130       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301766

30-Jan-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>2301766-017ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>WS23-17 0-4'</b>   | Batch ID: <b>72765</b>          | RunNo: <b>94203</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b>      | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3403071</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.91                            | 0.024                                        | 0.9479              | 0           | 95.8 | 68.8     | 120       |      |          |      |
| Toluene                          | 0.92                            | 0.047                                        | 0.9479              | 0           | 96.8 | 73.6     | 124       |      |          |      |
| Ethylbenzene                     | 0.90                            | 0.047                                        | 0.9479              | 0           | 95.4 | 72.7     | 129       |      |          |      |
| Xylenes, Total                   | 2.7                             | 0.095                                        | 2.844               | 0           | 94.8 | 75.7     | 126       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.91                            |                                              | 0.9479              |             | 96.5 | 70       | 130       |      |          |      |

| Sample ID: <b>2301766-017amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>WS23-17 0-4'</b>    | Batch ID: <b>72765</b>          | RunNo: <b>94203</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b>       | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3403072</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                           | 0.92                            | 0.024                                        | 0.9470              | 0           | 97.6 | 68.8     | 120       | 1.81 | 20       |      |
| Toluene                           | 0.95                            | 0.047                                        | 0.9470              | 0           | 99.8 | 73.6     | 124       | 2.95 | 20       |      |
| Ethylbenzene                      | 0.94                            | 0.047                                        | 0.9470              | 0           | 99.1 | 72.7     | 129       | 3.68 | 20       |      |
| Xylenes, Total                    | 2.8                             | 0.095                                        | 2.841               | 0           | 98.5 | 75.7     | 126       | 3.67 | 20       |      |
| Surr: 4-Bromofluorobenzene        | 0.90                            |                                              | 0.9470              |             | 95.3 | 70       | 130       | 0    | 0        |      |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
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- PQL Practical Quantitative Limit
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

# Sample Log-In Check List

Client Name: **Vertex Resources Services, Inc.** Work Order Number: **2301766** RcptNo: **1**

Received By: **Juan Rojas** 1/20/2023 7:20:00 AM *[Signature]*  
Completed By: **Sean Livingston** 1/20/2023 8:42:32 AM *[Signature]*  
Reviewed By: *[Signature]* 1-20-23

### Chain of Custody

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

### Log In

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

# of preserved bottles checked for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: JR 1/20/23

### Special Handling (if applicable)

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

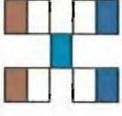
|                      |                      |       |                                                                                                                               |
|----------------------|----------------------|-------|-------------------------------------------------------------------------------------------------------------------------------|
| Person Notified:     | <input type="text"/> | Date: | <input type="text"/>                                                                                                          |
| By Whom:             | <input type="text"/> | Via:  | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding:           | <input type="text"/> |       |                                                                                                                               |
| Client Instructions: | <input type="text"/> |       |                                                                                                                               |

16. Additional remarks:

### 17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 1.6     | Good      | Not Present | YOGI    |           |           |





**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time: Standard  Rush 5 Day

Project Name: North Pure Gold 8 Federal #006 East

Project #: 22E-02816-07

Client: Vertex  
(direct bill to Devon)

Mailing Address:

Phone #: 22E-02816-07

Project Manager: Kent Stallings  
[kstallings@vertex.ca](mailto:kstallings@vertex.ca)

Sampler: L. Pullman

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CF): 1.0-2.2 = 66

QA/QC Package:  Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance  NELAC  Other

EDD (Type): 9091

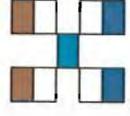
| Analysis Request           |                            |                            |                    |                          |               |                                                                                  |            |                 |                                 |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

| Date     | Time  | Matrix | Sample Name  | Container Type and # | Preservative Type | HEAL No. |
|----------|-------|--------|--------------|----------------------|-------------------|----------|
| 01/18/23 | 9:45  | Soil   | WS23-13 0-4' | 1, 4oz jar           |                   | 013      |
| 01/18/23 | 9:50  | Soil   | WS23-14 0-4' | 1, 4oz jar           |                   | 014      |
| 01/18/23 | 9:55  | Soil   | WS23-15 0-4' | 1, 4oz jar           |                   | 015      |
| 01/18/23 | 10:00 | Soil   | WS23-16 0-4' | 1, 4oz jar           |                   | 016      |
| 01/18/23 | 10:05 | Soil   | WS23-17 0-4' | 1, 4oz jar           |                   | 017      |
| 01/18/23 | 10:10 | Soil   | WS23-18 0-4' | 1, 4oz jar           |                   | 018      |
| 01/18/23 | 10:15 | Soil   | WS23-19 0-4' | 1, 4oz jar           |                   | 019      |
| 01/18/23 | 10:45 | Soil   | BS23-01 1'   | 1, 4oz jar           |                   | 020      |
| 01/18/23 | 10:50 | Soil   | BS23-02 1'   | 1, 4oz jar           |                   | 021      |
| 01/18/23 | 10:55 | Soil   | BS23-03 1'   | 1, 4oz jar           |                   | 022      |
| 01/18/23 | 11:00 | Soil   | BS23-04 1'   | 1, 4oz jar           |                   | 023      |
| 01/18/23 | 11:05 | Soil   | BS23-05 1'   | 1, 4oz jar           |                   | 024      |

Received by: [Signature] Date: 1/19/23 Time: 7:00

Received by: [Signature] Date: 1/19/23 Time: 7:20

Remarks: Direct bill to Devon, Dale Woodall  
cc. kstallings@vertex.ca for Final Report



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time: \_\_\_\_\_

Standard  Rush 5 Days

Project Name: \_\_\_\_\_

**North Pure Gold 8 Federal #006 East**

Project #: \_\_\_\_\_

**22E-02816-07**

Project Manager: \_\_\_\_\_

Kent Stallings  
kstallings@vertex.ca

Sampler: L. Pullman

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CF): 4081

HEAL No. 18-0-23-6

| Date     | Time  | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. |
|----------|-------|--------|-------------|----------------------|-------------------|----------|
| 01/18/23 | 11:10 | Soil   | BS23-06 1'  | 1, 4oz jar           |                   | 025      |
| 01/18/23 | 11:15 | Soil   | BS23-07 1'  | 1, 4oz jar           |                   | 026      |
| 01/18/23 | 11:20 | Soil   | BS23-08 1'  | 1, 4oz jar           |                   | 027      |
| 01/18/23 | 11:25 | Soil   | BS23-09 1'  | 1, 4oz jar           |                   | 028      |
| 01/18/23 | 11:30 | Soil   | BS23-10 1'  | 1, 4oz jar           |                   | 029      |
| 01/18/23 | 11:35 | Soil   | BS23-11 1'  | 1, 4oz jar           |                   | 030      |

| Analysis Request                                                                 |   |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------|---|--|--|--|--|--|--|--|--|--|
| BTEX / MTBE / TMBs (8021)                                                        | X |  |  |  |  |  |  |  |  |  |
| TPH:8015D(GRO / DRO / MRO)                                                       | X |  |  |  |  |  |  |  |  |  |
| 8081 Pesticides/8082 PCBs                                                        |   |  |  |  |  |  |  |  |  |  |
| EDB (Method 504.1)                                                               |   |  |  |  |  |  |  |  |  |  |
| PAHs by 8310 or 8270SIMS                                                         |   |  |  |  |  |  |  |  |  |  |
| RCRA 8 Metals                                                                    |   |  |  |  |  |  |  |  |  |  |
| Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> | X |  |  |  |  |  |  |  |  |  |
| 8260 (VOA)                                                                       |   |  |  |  |  |  |  |  |  |  |
| 8270 (Semi-VOA)                                                                  |   |  |  |  |  |  |  |  |  |  |
| Total Coliform (Present/Absent)                                                  |   |  |  |  |  |  |  |  |  |  |

Received by: Devon Woodall Date: 1/18/23 Time: 700

Relinquished by: Devon Woodall Date: 1/20/23 Time: 9:20

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: [www.hallenvironmental.com](http://www.hallenvironmental.com)

February 01, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: North Pure Gold 8 Federal 006 East

OrderNo.: 2301815

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 29 sample(s) on 1/21/2023 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2301815**

Date Reported: **2/1/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-12 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 9:35:00 AM

**Lab ID:** 2301815-001

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 10       |      | mg/Kg | 1  | 1/27/2023 1:45:27 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 1/27/2023 1:45:27 AM |
| Surr: DNOP                                       | 97.0   | 69-147   |      | %Rec  | 1  | 1/27/2023 1:45:27 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/27/2023 5:12:03 AM |
| Surr: BFB                                        | 110    | 37.7-212 |      | %Rec  | 1  | 1/27/2023 5:12:03 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/27/2023 5:12:03 AM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/27/2023 5:12:03 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/27/2023 5:12:03 AM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 1/27/2023 5:12:03 AM |
| Surr: 4-Bromofluorobenzene                       | 106    | 70-130   |      | %Rec  | 1  | 1/27/2023 5:12:03 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>  |
| Chloride                                         | 440    | 60       |      | mg/Kg | 20 | 1/27/2023 2:12:49 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-13 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 9:40:00 AM

**Lab ID:** 2301815-002

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 10       |      | mg/Kg | 1  | 1/25/2023 10:46:01 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 1/25/2023 10:46:01 PM |
| Surr: DNOP                                       | 76.5   | 69-147   |      | %Rec  | 1  | 1/25/2023 10:46:01 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/27/2023 5:35:09 AM  |
| Surr: BFB                                        | 107    | 37.7-212 |      | %Rec  | 1  | 1/27/2023 5:35:09 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/27/2023 5:35:09 AM  |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/27/2023 5:35:09 AM  |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/27/2023 5:35:09 AM  |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/27/2023 5:35:09 AM  |
| Surr: 4-Bromofluorobenzene                       | 104    | 70-130   |      | %Rec  | 1  | 1/27/2023 5:35:09 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 860    | 60       |      | mg/Kg | 20 | 1/27/2023 2:25:09 PM  |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: **2/1/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-14 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 9:45:00 AM

**Lab ID:** 2301815-003

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 1/25/2023 12:08:16 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 1/25/2023 12:08:16 PM |
| Surr: DNOP                                       | 132    | 69-147   |      | %Rec  | 1  | 1/25/2023 12:08:16 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/27/2023 4:18:00 AM  |
| Surr: BFB                                        | 90.4   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 4:18:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/27/2023 4:18:00 AM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/27/2023 4:18:00 AM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/27/2023 4:18:00 AM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 1/27/2023 4:18:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 93.6   | 70-130   |      | %Rec  | 1  | 1/27/2023 4:18:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 830    | 60       |      | mg/Kg | 20 | 1/27/2023 2:37:30 PM  |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-15 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 9:50:00 AM

**Lab ID:** 2301815-004

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 1/25/2023 12:51:07 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 1/25/2023 12:51:07 PM |
| Surr: DNOP                                       | 118    | 69-147   |      | %Rec  | 1  | 1/25/2023 12:51:07 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/27/2023 5:17:00 AM  |
| Surr: BFB                                        | 93.8   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 5:17:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/27/2023 5:17:00 AM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/27/2023 5:17:00 AM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/27/2023 5:17:00 AM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 1/27/2023 5:17:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 95.2   | 70-130   |      | %Rec  | 1  | 1/27/2023 5:17:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 310    | 60       |      | mg/Kg | 20 | 1/27/2023 2:49:51 PM  |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-16 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 9:55:00 AM

**Lab ID:** 2301815-005

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.0      |      | mg/Kg | 1  | 1/25/2023 1:04:55 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 1/25/2023 1:04:55 PM |
| Surr: DNOP                                       | 114    | 69-147   |      | %Rec  | 1  | 1/25/2023 1:04:55 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 1/27/2023 6:15:00 AM |
| Surr: BFB                                        | 90.6   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 6:15:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/27/2023 6:15:00 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 1/27/2023 6:15:00 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 1/27/2023 6:15:00 AM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 1/27/2023 6:15:00 AM |
| Surr: 4-Bromofluorobenzene                       | 93.7   | 70-130   |      | %Rec  | 1  | 1/27/2023 6:15:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>  |
| Chloride                                         | 230    | 60       |      | mg/Kg | 20 | 1/27/2023 3:02:12 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-17 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 10:00:00 AM

**Lab ID:** 2301815-006

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.4      |      | mg/Kg | 1  | 1/25/2023 1:18:45 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 1/25/2023 1:18:45 PM |
| Surr: DNOP                                       | 135    | 69-147   |      | %Rec  | 1  | 1/25/2023 1:18:45 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/27/2023 6:34:00 AM |
| Surr: BFB                                        | 96.8   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 6:34:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/27/2023 6:34:00 AM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/27/2023 6:34:00 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/27/2023 6:34:00 AM |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 1/27/2023 6:34:00 AM |
| Surr: 4-Bromofluorobenzene                       | 93.8   | 70-130   |      | %Rec  | 1  | 1/27/2023 6:34:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>  |
| Chloride                                         | 100    | 60       |      | mg/Kg | 20 | 1/27/2023 3:14:33 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-18 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 10:05:00 AM

**Lab ID:** 2301815-007

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 1/25/2023 1:32:42 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 1/25/2023 1:32:42 PM  |
| Surr: DNOP                                       | 124    | 69-147   |      | %Rec  | 1  | 1/25/2023 1:32:42 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/27/2023 10:09:00 AM |
| Surr: BFB                                        | 97.5   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 10:09:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/27/2023 10:09:00 AM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/27/2023 10:09:00 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/27/2023 10:09:00 AM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/27/2023 10:09:00 AM |
| Surr: 4-Bromofluorobenzene                       | 97.7   | 70-130   |      | %Rec  | 1  | 1/27/2023 10:09:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 360    | 60       |      | mg/Kg | 20 | 1/27/2023 3:26:54 PM  |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-19 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 10:10:00 AM

**Lab ID:** 2301815-008

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 1/25/2023 1:46:50 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/25/2023 1:46:50 PM  |
| Surr: DNOP                                       | 119    | 69-147   |      | %Rec  | 1  | 1/25/2023 1:46:50 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/27/2023 10:28:00 AM |
| Surr: BFB                                        | 94.8   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 10:28:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/27/2023 10:28:00 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/27/2023 10:28:00 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/27/2023 10:28:00 AM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 1/27/2023 10:28:00 AM |
| Surr: 4-Bromofluorobenzene                       | 95.4   | 70-130   |      | %Rec  | 1  | 1/27/2023 10:28:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 210    | 60       |      | mg/Kg | 20 | 1/27/2023 4:53:19 PM  |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-20 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 10:15:00 AM

**Lab ID:** 2301815-009

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.0      |      | mg/Kg | 1  | 1/25/2023 2:01:17 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 1/25/2023 2:01:17 PM  |
| Surr: DNOP                                       | 120    | 69-147   |      | %Rec  | 1  | 1/25/2023 2:01:17 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/27/2023 10:48:00 AM |
| Surr: BFB                                        | 95.6   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 10:48:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/27/2023 10:48:00 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/27/2023 10:48:00 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/27/2023 10:48:00 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 1/27/2023 10:48:00 AM |
| Surr: 4-Bromofluorobenzene                       | 96.9   | 70-130   |      | %Rec  | 1  | 1/27/2023 10:48:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 480    | 60       |      | mg/Kg | 20 | 1/27/2023 5:30:20 PM  |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-21 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 10:20:00 AM

**Lab ID:** 2301815-010

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.1      |      | mg/Kg | 1  | 1/26/2023 11:33:40 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 1/26/2023 11:33:40 AM |
| Surr: DNOP                                       | 132    | 69-147   |      | %Rec  | 1  | 1/26/2023 11:33:40 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/27/2023 11:07:00 AM |
| Surr: BFB                                        | 95.1   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 11:07:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/27/2023 11:07:00 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/27/2023 11:07:00 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/27/2023 11:07:00 AM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 1/27/2023 11:07:00 AM |
| Surr: 4-Bromofluorobenzene                       | 98.4   | 70-130   |      | %Rec  | 1  | 1/27/2023 11:07:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 300    | 60       |      | mg/Kg | 20 | 1/27/2023 6:32:04 PM  |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-22 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 10:25:00 AM

**Lab ID:** 2301815-011

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 1/25/2023 2:28:45 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/25/2023 2:28:45 PM  |
| Surr: DNOP                                       | 114    | 69-147   |      | %Rec  | 1  | 1/25/2023 2:28:45 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/27/2023 11:27:00 AM |
| Surr: BFB                                        | 98.8   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 11:27:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/27/2023 11:27:00 AM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/27/2023 11:27:00 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/27/2023 11:27:00 AM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/27/2023 11:27:00 AM |
| Surr: 4-Bromofluorobenzene                       | 98.2   | 70-130   |      | %Rec  | 1  | 1/27/2023 11:27:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 470    | 60       |      | mg/Kg | 20 | 1/27/2023 6:44:26 PM  |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-23 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 10:30:00 AM

**Lab ID:** 2301815-012

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 1/25/2023 2:42:59 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 1/25/2023 2:42:59 PM  |
| Surr: DNOP                                       | 143    | 69-147   |      | %Rec  | 1  | 1/25/2023 2:42:59 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/27/2023 11:46:00 AM |
| Surr: BFB                                        | 95.2   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 11:46:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/27/2023 11:46:00 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/27/2023 11:46:00 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/27/2023 11:46:00 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 1/27/2023 11:46:00 AM |
| Surr: 4-Bromofluorobenzene                       | 100    | 70-130   |      | %Rec  | 1  | 1/27/2023 11:46:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 530    | 60       |      | mg/Kg | 20 | 1/27/2023 6:56:47 PM  |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-24 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 10:35:00 AM

**Lab ID:** 2301815-013

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.0      |      | mg/Kg | 1  | 1/25/2023 2:56:56 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 1/25/2023 2:56:56 PM  |
| Surr: DNOP                                       | 156    | 69-147   | S    | %Rec  | 1  | 1/25/2023 2:56:56 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/27/2023 12:26:00 PM |
| Surr: BFB                                        | 98.5   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 12:26:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/27/2023 12:26:00 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/27/2023 12:26:00 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/27/2023 12:26:00 PM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/27/2023 12:26:00 PM |
| Surr: 4-Bromofluorobenzene                       | 99.4   | 70-130   |      | %Rec  | 1  | 1/27/2023 12:26:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 950    | 60       |      | mg/Kg | 20 | 1/27/2023 7:09:07 PM  |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-25 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 10:40:00 AM

**Lab ID:** 2301815-014

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 1/25/2023 3:10:48 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 1/25/2023 3:10:48 PM  |
| Surr: DNOP                                       | 116    | 69-147   |      | %Rec  | 1  | 1/25/2023 3:10:48 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/27/2023 12:45:00 PM |
| Surr: BFB                                        | 99.8   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 12:45:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/27/2023 12:45:00 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/27/2023 12:45:00 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/27/2023 12:45:00 PM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 1/27/2023 12:45:00 PM |
| Surr: 4-Bromofluorobenzene                       | 99.2   | 70-130   |      | %Rec  | 1  | 1/27/2023 12:45:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 690    | 60       |      | mg/Kg | 20 | 1/27/2023 7:21:28 PM  |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: **2/1/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-26 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 10:45:00 AM

**Lab ID:** 2301815-015

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.1      |      | mg/Kg | 1  | 1/25/2023 3:24:35 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 1/25/2023 3:24:35 PM |
| Surr: DNOP                                       | 128    | 69-147   |      | %Rec  | 1  | 1/25/2023 3:24:35 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/27/2023 1:05:00 PM |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 1/27/2023 1:05:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/27/2023 1:05:00 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/27/2023 1:05:00 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/27/2023 1:05:00 PM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 1/27/2023 1:05:00 PM |
| Surr: 4-Bromofluorobenzene                       | 99.4   | 70-130   |      | %Rec  | 1  | 1/27/2023 1:05:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>  |
| Chloride                                         | 380    | 60       |      | mg/Kg | 20 | 1/27/2023 7:33:49 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-27 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 10:50:00 AM

**Lab ID:** 2301815-016

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.7      |      | mg/Kg | 1  | 1/25/2023 3:38:15 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 43       |      | mg/Kg | 1  | 1/25/2023 3:38:15 PM |
| Surr: DNOP                                       | 124    | 69-147   |      | %Rec  | 1  | 1/25/2023 3:38:15 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/27/2023 1:25:00 PM |
| Surr: BFB                                        | 98.9   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 1:25:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/27/2023 1:25:00 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/27/2023 1:25:00 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/27/2023 1:25:00 PM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/27/2023 1:25:00 PM |
| Surr: 4-Bromofluorobenzene                       | 99.0   | 70-130   |      | %Rec  | 1  | 1/27/2023 1:25:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>  |
| Chloride                                         | 500    | 60       |      | mg/Kg | 20 | 1/27/2023 7:46:09 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: **2/1/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-28 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 10:55:00 AM

**Lab ID:** 2301815-017

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | 9.8    | 8.7      |      | mg/Kg | 1  | 1/25/2023 3:52:13 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 43       |      | mg/Kg | 1  | 1/25/2023 3:52:13 PM |
| Surr: DNOP                                       | 116    | 69-147   |      | %Rec  | 1  | 1/25/2023 3:52:13 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/27/2023 2:04:00 PM |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 1/27/2023 2:04:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/27/2023 2:04:00 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/27/2023 2:04:00 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/27/2023 2:04:00 PM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 1/27/2023 2:04:00 PM |
| Surr: 4-Bromofluorobenzene                       | 100    | 70-130   |      | %Rec  | 1  | 1/27/2023 2:04:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>  |
| Chloride                                         | 1300   | 60       |      | mg/Kg | 20 | 1/27/2023 7:58:30 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-29 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 11:00:00 AM

**Lab ID:** 2301815-018

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 1/25/2023 4:20:06 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 1/25/2023 4:20:06 PM |
| Surr: DNOP                                       | 121    | 69-147   |      | %Rec  | 1  | 1/25/2023 4:20:06 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/27/2023 2:24:00 PM |
| Surr: BFB                                        | 95.4   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 2:24:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/27/2023 2:24:00 PM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/27/2023 2:24:00 PM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/27/2023 2:24:00 PM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/27/2023 2:24:00 PM |
| Surr: 4-Bromofluorobenzene                       | 98.8   | 70-130   |      | %Rec  | 1  | 1/27/2023 2:24:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>  |
| Chloride                                         | 470    | 60       |      | mg/Kg | 20 | 1/27/2023 8:10:51 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-30 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 11:05:00 AM

**Lab ID:** 2301815-019

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.6      |      | mg/Kg | 1  | 1/25/2023 4:33:50 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 43       |      | mg/Kg | 1  | 1/25/2023 4:33:50 PM |
| Surr: DNOP                                       | 132    | 69-147   |      | %Rec  | 1  | 1/25/2023 4:33:50 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/27/2023 2:43:00 PM |
| Surr: BFB                                        | 100    | 37.7-212 |      | %Rec  | 1  | 1/27/2023 2:43:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/27/2023 2:43:00 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/27/2023 2:43:00 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/27/2023 2:43:00 PM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 1/27/2023 2:43:00 PM |
| Surr: 4-Bromofluorobenzene                       | 98.4   | 70-130   |      | %Rec  | 1  | 1/27/2023 2:43:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>  |
| Chloride                                         | 500    | 60       |      | mg/Kg | 20 | 1/27/2023 8:23:12 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-31 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 11:10:00 AM

**Lab ID:** 2301815-020

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.5      |      | mg/Kg | 1  | 1/25/2023 4:47:35 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 43       |      | mg/Kg | 1  | 1/25/2023 4:47:35 PM |
| Surr: DNOP                                       | 119    | 69-147   |      | %Rec  | 1  | 1/25/2023 4:47:35 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/27/2023 3:03:00 PM |
| Surr: BFB                                        | 99.3   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 3:03:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/27/2023 3:03:00 PM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/27/2023 3:03:00 PM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/27/2023 3:03:00 PM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/27/2023 3:03:00 PM |
| Surr: 4-Bromofluorobenzene                       | 100    | 70-130   |      | %Rec  | 1  | 1/27/2023 3:03:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 250    | 60       |      | mg/Kg | 20 | 1/30/2023 2:19:46 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-32 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 11:15:00 AM

**Lab ID:** 2301815-021

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.9      |      | mg/Kg | 1  | 1/25/2023 5:01:31 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 44       |      | mg/Kg | 1  | 1/25/2023 5:01:31 PM |
| Surr: DNOP                                       | 122    | 69-147   |      | %Rec  | 1  | 1/25/2023 5:01:31 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/27/2023 3:23:00 PM |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 1/27/2023 3:23:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/27/2023 3:23:00 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/27/2023 3:23:00 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/27/2023 3:23:00 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 1/27/2023 3:23:00 PM |
| Surr: 4-Bromofluorobenzene                       | 102    | 70-130   |      | %Rec  | 1  | 1/27/2023 3:23:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>  |
| Chloride                                         | 290    | 60       |      | mg/Kg | 20 | 1/27/2023 9:12:34 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-33 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 11:20:00 AM

**Lab ID:** 2301815-022

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 1/25/2023 5:15:07 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 1/25/2023 5:15:07 PM |
| Surr: DNOP                                       | 127    | 69-147   |      | %Rec  | 1  | 1/25/2023 5:15:07 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/27/2023 3:43:00 PM |
| Surr: BFB                                        | 92.9   | 37.7-212 |      | %Rec  | 1  | 1/27/2023 3:43:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/27/2023 3:43:00 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/27/2023 3:43:00 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/27/2023 3:43:00 PM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 1/27/2023 3:43:00 PM |
| Surr: 4-Bromofluorobenzene                       | 95.3   | 70-130   |      | %Rec  | 1  | 1/27/2023 3:43:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>  |
| Chloride                                         | 200    | 59       |      | mg/Kg | 20 | 1/27/2023 9:24:54 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-34 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 11:25:00 AM

**Lab ID:** 2301815-023

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 1/26/2023 9:21:53 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/26/2023 9:21:53 PM |
| Surr: DNOP                                       | 120    | 69-147   |      | %Rec  | 1  | 1/26/2023 9:21:53 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/25/2023 8:24:00 PM |
| Surr: BFB                                        | 99.6   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 8:24:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/25/2023 8:24:00 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/25/2023 8:24:00 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/25/2023 8:24:00 PM |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 1/25/2023 8:24:00 PM |
| Surr: 4-Bromofluorobenzene                       | 96.2   | 70-130   |      | %Rec  | 1  | 1/25/2023 8:24:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>  |
| Chloride                                         | 170    | 60       |      | mg/Kg | 20 | 1/27/2023 9:37:14 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-35 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 11:30:00 AM

**Lab ID:** 2301815-024

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 1/26/2023 9:32:19 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 1/26/2023 9:32:19 PM |
| Surr: DNOP                                       | 108    | 69-147   |      | %Rec  | 1  | 1/26/2023 9:32:19 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/25/2023 9:23:00 PM |
| Surr: BFB                                        | 93.9   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 9:23:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/25/2023 9:23:00 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/25/2023 9:23:00 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/25/2023 9:23:00 PM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/25/2023 9:23:00 PM |
| Surr: 4-Bromofluorobenzene                       | 96.2   | 70-130   |      | %Rec  | 1  | 1/25/2023 9:23:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>  |
| Chloride                                         | 380    | 60       |      | mg/Kg | 20 | 1/27/2023 9:49:35 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-36 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 11:35:00 AM

**Lab ID:** 2301815-025

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 1/26/2023 9:42:47 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 1/26/2023 9:42:47 PM  |
| Surr: DNOP                                       | 115    | 69-147   |      | %Rec  | 1  | 1/26/2023 9:42:47 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/25/2023 10:21:00 PM |
| Surr: BFB                                        | 95.6   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 10:21:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/25/2023 10:21:00 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/25/2023 10:21:00 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/25/2023 10:21:00 PM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 1/25/2023 10:21:00 PM |
| Surr: 4-Bromofluorobenzene                       | 93.5   | 70-130   |      | %Rec  | 1  | 1/25/2023 10:21:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 550    | 59       |      | mg/Kg | 20 | 1/27/2023 10:01:55 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-37 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 11:40:00 AM

**Lab ID:** 2301815-026

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 1/26/2023 9:53:15 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 1/26/2023 9:53:15 PM  |
| Surr: DNOP                                       | 111    | 69-147   |      | %Rec  | 1  | 1/26/2023 9:53:15 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/25/2023 10:41:00 PM |
| Surr: BFB                                        | 90.9   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 10:41:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/25/2023 10:41:00 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/25/2023 10:41:00 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/25/2023 10:41:00 PM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 1/25/2023 10:41:00 PM |
| Surr: 4-Bromofluorobenzene                       | 93.7   | 70-130   |      | %Rec  | 1  | 1/25/2023 10:41:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 460    | 60       |      | mg/Kg | 20 | 1/27/2023 10:14:15 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-38 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 11:45:00 AM

**Lab ID:** 2301815-027

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.4      |      | mg/Kg | 1  | 1/26/2023 10:03:44 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 42       |      | mg/Kg | 1  | 1/26/2023 10:03:44 PM |
| Surr: DNOP                                       | 118    | 69-147   |      | %Rec  | 1  | 1/26/2023 10:03:44 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/25/2023 11:00:00 PM |
| Surr: BFB                                        | 90.6   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 11:00:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/25/2023 11:00:00 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/25/2023 11:00:00 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/25/2023 11:00:00 PM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 1/25/2023 11:00:00 PM |
| Surr: 4-Bromofluorobenzene                       | 93.1   | 70-130   |      | %Rec  | 1  | 1/25/2023 11:00:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 420    | 60       |      | mg/Kg | 20 | 1/27/2023 10:26:35 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-39 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 11:50:00 AM

**Lab ID:** 2301815-028

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 1/26/2023 10:14:13 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 1/26/2023 10:14:13 PM |
| Surr: DNOP                                       | 121    | 69-147   |      | %Rec  | 1  | 1/26/2023 10:14:13 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/25/2023 11:19:00 PM |
| Surr: BFB                                        | 92.3   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 11:19:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/25/2023 11:19:00 PM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/25/2023 11:19:00 PM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/25/2023 11:19:00 PM |
| Xylenes, Total                                   | ND     | 0.092    |      | mg/Kg | 1  | 1/25/2023 11:19:00 PM |
| Surr: 4-Bromofluorobenzene                       | 92.0   | 70-130   |      | %Rec  | 1  | 1/25/2023 11:19:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 610    | 60       |      | mg/Kg | 20 | 1/27/2023 10:38:56 PM |

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

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

**Analytical Report**

Lab Order **2301815**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-40 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/19/2023 11:55:00 AM

**Lab ID:** 2301815-029

**Matrix:** SOIL

**Received Date:** 1/21/2023 10:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.3      |      | mg/Kg | 1  | 1/26/2023 10:35:04 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 1/26/2023 10:35:04 PM |
| Surr: DNOP                                       | 121    | 69-147   |      | %Rec  | 1  | 1/26/2023 10:35:04 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/25/2023 11:39:00 PM |
| Surr: BFB                                        | 90.2   | 37.7-212 |      | %Rec  | 1  | 1/25/2023 11:39:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/25/2023 11:39:00 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/25/2023 11:39:00 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/25/2023 11:39:00 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 1/25/2023 11:39:00 PM |
| Surr: 4-Bromofluorobenzene                       | 94.3   | 70-130   |      | %Rec  | 1  | 1/25/2023 11:39:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 860    | 60       |      | mg/Kg | 20 | 1/27/2023 11:40:38 PM |

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301815

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>MB-72863</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72863</b>          | RunNo: <b>94247</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/27/2023</b> | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403855</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-72863</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72863</b>          | RunNo: <b>94247</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/27/2023</b> | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403856</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 96.5 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-72867</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72867</b>          | RunNo: <b>94247</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/27/2023</b> | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403887</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-72867</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72867</b>          | RunNo: <b>94247</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/27/2023</b> | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403888</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 93.8 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-72871</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72871</b>          | RunNo: <b>94247</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/27/2023</b> | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403889</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-72871</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72871</b>          | RunNo: <b>94247</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/27/2023</b> | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403890</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 95.8 | 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 Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301815

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>MB-72792</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>72792</b>          | RunNo: <b>94166</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>    | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3400838</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                        | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND                              | 10                                                         |                     |             |      |          |           |      |          |      |
| Motor Oil Range Organics (MRO) | ND                              | 50                                                         |                     |             |      |          |           |      |          |      |
| Surr: DNOP                     | 11                              |                                                            | 10.00               |             | 113  | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-72792</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72792</b>          | RunNo: <b>94166</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b> | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3400839</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 53                              | 10                                                         | 50.00               | 0           | 105  | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 5.1                             |                                                            | 5.000               |             | 101  | 69       | 147       |      |          |      |

| Sample ID: <b>2301815-003AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-14 4'</b>     | Batch ID: <b>72792</b>          | RunNo: <b>94166</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>      | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3400841</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 46                              | 9.5                                                        | 47.62               | 0           | 97.4 | 54.2     | 135       |      |          |      |
| Surr: DNOP                       | 5.1                             |                                                            | 4.762               |             | 107  | 69       | 147       |      |          |      |

| Sample ID: <b>2301815-003AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-14 4'</b>      | Batch ID: <b>72792</b>          | RunNo: <b>94166</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>       | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3400842</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 53                              | 9.4                                                        | 46.90               | 0           | 114  | 54.2     | 135       | 13.9 | 29.2     |      |
| Surr: DNOP                        | 5.8                             |                                                            | 4.690               |             | 123  | 69       | 147       | 0    | 0        |      |

| Sample ID: <b>MB-72786</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>72786</b>          | RunNo: <b>94166</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>    | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3401684</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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                     | 9.4                             |                                                            | 10.00               |             | 93.5 | 69       | 147       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301815

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>LCS-72786</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72786</b>          | RunNo: <b>94166</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b> | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3401685</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 43                              | 10                                                         | 50.00               | 0           | 86.7 | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 4.7                             |                                                            | 5.000               |             | 94.7 | 69       | 147       |      |          |      |

| Sample ID: <b>2301815-023AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-34 4'</b>     | Batch ID: <b>72802</b>          | RunNo: <b>94207</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>      | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403387</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 41                              | 9.1                                                        | 45.50               | 0           | 90.1 | 54.2     | 135       |      |          |      |
| Surr: DNOP                       | 4.5                             |                                                            | 4.550               |             | 98.6 | 69       | 147       |      |          |      |

| Sample ID: <b>2301815-023AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-34 4'</b>      | Batch ID: <b>72802</b>          | RunNo: <b>94207</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>       | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403388</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 44                              | 9.4                                                        | 47.08               | 0           | 93.9 | 54.2     | 135       | 7.58 | 29.2     |      |
| Surr: DNOP                        | 4.7                             |                                                            | 4.708               |             | 101  | 69       | 147       | 0    | 0        |      |

| Sample ID: <b>LCS-72802</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72802</b>          | RunNo: <b>94207</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3403440</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 43                              | 10                                                         | 50.00               | 0           | 85.8 | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 6.5                             |                                                            | 5.000               |             | 129  | 69       | 147       |      |          |      |

| Sample ID: <b>MB-72802</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>72802</b>          | RunNo: <b>94207</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>    | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3403444</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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                     | 12                              |                                                            | 10.00               |             | 115  | 69       | 147       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301815

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>ics-72788</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>72788</b>          | RunNo: <b>94183</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>   | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3401190</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 28                              | 5.0                                               | 25.00               | 0           | 111  | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 1100                            |                                                   | 1000                |             | 111  | 37.7     | 212       |      |          |      |

| Sample ID: <b>mb-72788</b>    | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>72788</b>          | RunNo: <b>94183</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>   | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3401191</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0                                               |                     |             |      |          |           |      |          |      |
| Surr: BFB                     | 930                             |                                                   | 1000                |             | 93.1 | 37.7     | 212       |      |          |      |

| Sample ID: <b>2301815-023ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-34 4'</b>     | Batch ID: <b>72788</b>          | RunNo: <b>94183</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>      | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3401193</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 28                              | 4.7                                               | 23.50               | 0           | 117  | 70       | 130       |      |          |      |
| Surr: BFB                        | 990                             |                                                   | 939.8               |             | 105  | 37.7     | 212       |      |          |      |

| Sample ID: <b>2301815-023amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |       |          |      |
|-----------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: <b>BS23-34 4'</b>      | Batch ID: <b>72788</b>          | RunNo: <b>94183</b>                               |                     |             |      |          |           |       |          |      |
| Prep Date: <b>1/24/2023</b>       | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3401194</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |       |          |      |
| Analyte                           | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 27                              | 4.7                                               | 23.52               | 0           | 117  | 70       | 130       | 0.385 | 20       |      |
| Surr: BFB                         | 1100                            |                                                   | 940.7               |             | 114  | 37.7     | 212       | 0     | 0        |      |

| Sample ID: <b>ics-72799</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72799</b>          | RunNo: <b>94183</b>                               |                    |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3401214</b>                             | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                               | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                   | 1000                            |                                                   | 1000               |             | 104  | 37.7     | 212       |      |          |      |

| Sample ID: <b>mb-72799</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72799</b>          | RunNo: <b>94183</b>                               |                    |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3401215</b>                             | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                               | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                   | 920                             |                                                   | 1000               |             | 91.7 | 37.7     | 212       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301815

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>ics-72767</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>72767</b>          |     | RunNo: <b>94196</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b>   | Analysis Date: <b>1/26/2023</b> |     | SeqNo: <b>3402641</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 30                              | 5.0 | 25.00                                             | 0           | 121                 | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 1200                            |     | 1000                                              |             | 123                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>mb-72767</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>72767</b>          |     | RunNo: <b>94196</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b>   | Analysis Date: <b>1/26/2023</b> |     | SeqNo: <b>3402642</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0 |                                                   |             |                     |          |           |      |          |      |
| Surr: BFB                     | 1100                            |     | 1000                                              |             | 108                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>2301815-003ams</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|----------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-14 4'</b>     | Batch ID: <b>72783</b>          |     | RunNo: <b>94203</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>      | Analysis Date: <b>1/27/2023</b> |     | SeqNo: <b>3402949</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 25                              | 4.8 | 23.97                                             | 0           | 104                 | 70       | 130       |      |          |      |
| Surr: BFB                        | 970                             |     | 958.8                                             |             | 101                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>2301815-003amsd</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-----------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-14 4'</b>      | Batch ID: <b>72783</b>          |     | RunNo: <b>94203</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>       | Analysis Date: <b>1/27/2023</b> |     | SeqNo: <b>3402950</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 24                              | 4.8 | 23.90                                             | 0           | 99.8                | 70       | 130       | 4.10 | 20       |      |
| Surr: BFB                         | 1000                            |     | 956.0                                             |             | 105                 | 37.7     | 212       | 0    | 0        |      |

| Sample ID: <b>MB-72783</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>72783</b>          |     | RunNo: <b>94203</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>   | Analysis Date: <b>1/27/2023</b> |     | SeqNo: <b>3403297</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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                                              |             | 90.0                | 37.7     | 212       |      |          |      |

| Sample ID: <b>ics-72783</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72783</b>          |     | RunNo: <b>94203</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b> | Analysis Date: <b>1/27/2023</b> |     | SeqNo: <b>3403303</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301815

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>ics-72783</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>72783</b>          | RunNo: <b>94203</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>   | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403303</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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  | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 1000                            |                                                   | 1000                |             | 105  | 37.7     | 212       |      |          |      |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301815

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>ics-72788</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72788</b>          | RunNo: <b>94183</b>                          |           |             |                     |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b> | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3401285</b>                        |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.94                            | 0.025                                        | 1.000     | 0           | 93.9                | 80       | 120       |      |          |      |
| Toluene                     | 0.94                            | 0.050                                        | 1.000     | 0           | 93.8                | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.92                            | 0.050                                        | 1.000     | 0           | 92.2                | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.7                             | 0.10                                         | 3.000     | 0           | 91.7                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.96                            |                                              | 1.000     |             | 95.7                | 70       | 130       |      |          |      |

| Sample ID: <b>mb-72788</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72788</b>          | RunNo: <b>94183</b>                          |           |             |                     |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b> | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3401286</b>                        |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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  | 0.95                            |                                              | 1.000     |             | 95.2                | 70       | 130       |      |          |      |

| Sample ID: <b>2301815-024ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |                     |          |           |      |          |      |
|----------------------------------|---------------------------------|----------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-35 4'</b>     | Batch ID: <b>72788</b>          | RunNo: <b>94183</b>                          |           |             |                     |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>      | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3401289</b>                        |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                          | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.97                            | 0.023                                        | 0.9398    | 0           | 103                 | 68.8     | 120       |      |          |      |
| Toluene                          | 0.97                            | 0.047                                        | 0.9398    | 0           | 103                 | 73.6     | 124       |      |          |      |
| Ethylbenzene                     | 0.96                            | 0.047                                        | 0.9398    | 0           | 102                 | 72.7     | 129       |      |          |      |
| Xylenes, Total                   | 2.8                             | 0.094                                        | 2.820     | 0           | 101                 | 75.7     | 126       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.89                            |                                              | 0.9398    |             | 94.6                | 70       | 130       |      |          |      |

| Sample ID: <b>2301815-024amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |                     |          |           |      |          |      |
|-----------------------------------|---------------------------------|----------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-35 4'</b>      | Batch ID: <b>72788</b>          | RunNo: <b>94183</b>                          |           |             |                     |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>       | Analysis Date: <b>1/25/2023</b> | SeqNo: <b>3401290</b>                        |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                          | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                           | 0.99                            | 0.023                                        | 0.9398    | 0           | 105                 | 68.8     | 120       | 2.14 | 20       |      |
| Toluene                           | 0.99                            | 0.047                                        | 0.9398    | 0           | 105                 | 73.6     | 124       | 1.63 | 20       |      |
| Ethylbenzene                      | 0.97                            | 0.047                                        | 0.9398    | 0           | 103                 | 72.7     | 129       | 1.00 | 20       |      |
| Xylenes, Total                    | 2.9                             | 0.094                                        | 2.820     | 0           | 102                 | 75.7     | 126       | 1.58 | 20       |      |
| Surr: 4-Bromofluorobenzene        | 0.87                            |                                              | 0.9398    |             | 92.9                | 70       | 130       | 0    | 0        |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301815

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>ics-72799</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72799</b>          | RunNo: <b>94183</b>                          |                    |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3401309</b>                        | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene  | 0.95                            |                                              | 1.000              |             | 94.6 | 70       | 130       |      |          |      |

| Sample ID: <b>mb-72799</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72799</b>          | RunNo: <b>94183</b>                          |                    |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3401310</b>                        | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene  | 0.95                            |                                              | 1.000              |             | 94.7 | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-72767</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72767</b>          | RunNo: <b>94196</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3402618</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.94                            | 0.025                                        | 1.000               | 0           | 94.3 | 80       | 120       |      |          |      |
| Toluene                     | 0.95                            | 0.050                                        | 1.000               | 0           | 95.0 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.94                            | 0.050                                        | 1.000               | 0           | 93.8 | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.8                             | 0.10                                         | 3.000               | 0           | 94.4 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.1                             |                                              | 1.000               |             | 107  | 70       | 130       |      |          |      |

| Sample ID: <b>mb-72767</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72767</b>          | RunNo: <b>94196</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/23/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3402619</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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               |             | 103  | 70       | 130       |      |          |      |

| Sample ID: <b>2301815-004ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-15 4'</b>     | Batch ID: <b>72783</b>          | RunNo: <b>94203</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>      | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403095</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.94                            | 0.024                                        | 0.9524              | 0           | 99.2 | 68.8     | 120       |      |          |      |
| Toluene                          | 0.95                            | 0.048                                        | 0.9524              | 0           | 99.3 | 73.6     | 124       |      |          |      |
| Ethylbenzene                     | 0.93                            | 0.048                                        | 0.9524              | 0           | 97.4 | 72.7     | 129       |      |          |      |
| Xylenes, Total                   | 2.8                             | 0.095                                        | 2.857               | 0           | 96.5 | 75.7     | 126       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301815

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>2301815-004ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-15 4'</b>     | Batch ID: <b>72783</b>          | RunNo: <b>94203</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b>      | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403095</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene       | 0.92                            |                                              | 0.9524              |             | 96.7 | 70       | 130       |      |          |      |

| Sample ID: <b>2301815-004amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |       |          |      |
|-----------------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: <b>BS23-15 4'</b>      | Batch ID: <b>72783</b>          | RunNo: <b>94203</b>                          |                     |             |      |          |           |       |          |      |
| Prep Date: <b>1/24/2023</b>       | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403096</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |       |          |      |
| Analyte                           | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Benzene                           | 0.93                            | 0.024                                        | 0.9479              | 0           | 98.5 | 68.8     | 120       | 1.16  | 20       |      |
| Toluene                           | 0.93                            | 0.047                                        | 0.9479              | 0           | 98.5 | 73.6     | 124       | 1.30  | 20       |      |
| Ethylbenzene                      | 0.92                            | 0.047                                        | 0.9479              | 0           | 97.1 | 72.7     | 129       | 0.775 | 20       |      |
| Xylenes, Total                    | 2.7                             | 0.095                                        | 2.844               | 0           | 96.0 | 75.7     | 126       | 0.934 | 20       |      |
| Surr: 4-Bromofluorobenzene        | 0.91                            |                                              | 0.9479              |             | 96.2 | 70       | 130       | 0     | 0        |      |

| Sample ID: <b>MB-72783</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72783</b>          | RunNo: <b>94203</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b> | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403301</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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  | 0.95                            |                                              | 1.000               |             | 94.9 | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-72783</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72783</b>          | RunNo: <b>94203</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/24/2023</b> | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403304</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.94                            | 0.025                                        | 1.000               | 0           | 93.8 | 80       | 120       |      |          |      |
| Toluene                     | 0.94                            | 0.050                                        | 1.000               | 0           | 93.5 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.91                            | 0.050                                        | 1.000               | 0           | 91.1 | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.7                             | 0.10                                         | 3.000               | 0           | 90.4 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.96                            |                                              | 1.000               |             | 95.8 | 70       | 130       |      |          |      |

**Qualifiers:**

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



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

# Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.

Work Order Number: 2301815

RcptNo: 1

Received By: Juan Rojas

1/21/2023 10:30:00 AM

*Juan Rojas*

Completed By: Juan Rojas

1/21/2023 11:05:09 AM

*Juan Rojas*

Reviewed By: *JA 1-23-23*

### Chain of Custody

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

### Log In

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

# of preserved bottles checked for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: *JR 1/23/23*

### 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:  
Missing mailing address, phone number, and email address. JR 1/21/23

### 17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 0.8     | Good      | No          | Morty   |           |           |
| 2         | 0.3     | Good      | No          | Morty   |           |           |



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
 www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

Turn-Around Time:  Standard  Rush 5 Day  
 Project Name: North Pure Gold 8 Federal #006 East  
 Project #: 22E-02816-07

Project Manager: Kent Stallings  
 email or Fax#: kstallings@vertex.ca  
 Sampler: L. Pullman

On Ice:  Yes  No  
 # of Coolers: 2  
 Cooler Temp (including CP): 6.8-0=0.8  
6.3-0=0.3  
7.30/8.15

Container Type and #  
 1, 4oz jar  
 1, 4oz jar

Preservative Type  
 -001  
 -002  
 -003  
 -004  
 -005  
 -006  
 -007  
 -008  
 -009  
 -010  
 -012

Matrix  
 Soil  
 Soil

Sample Name  
 BS23-12 4'  
 BS23-13 4'  
 BS23-14 4'  
 BS23-15 4'  
 BS23-16 4'  
 BS23-17 4'  
 BS23-18 4'  
 BS23-19 4'  
 BS23-20 4'  
 BS23-21 4'  
 BS23-22 4'  
 BS23-23 4'

Date  
 01/19/23  
 01/19/23  
 01/19/23  
 01/19/23  
 01/19/23  
 01/19/23  
 01/19/23  
 01/19/23  
 01/19/23  
 01/19/23  
 01/19/23  
 01/19/23

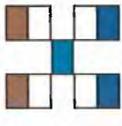
Time  
 9:35  
 9:40  
 9:45  
 9:50  
 9:55  
 10:00  
 10:05  
 10:10  
 10:15  
 10:20  
 10:25  
 10:30

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

Relinquished by: Sub Pullman  
 Date: 1-20-23 Time: 07:00  
 Relinquished by: Sub Pullman  
 Date: 1/20/23 Time: 19:00

Received by: Sub Pullman Date: 1/20/23 Time: 7:00  
 Received by: Sub Pullman Date: 1/21/23 Time: 14:30

Remarks:  
 Direct bill to Devon, Dale Woodall  
 cc. kstallings@vertex.ca for Final Report



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time: Standard  Rush 5 Day

Project Name: North Pure Gold 8 Federal #006 East

Project #: 22E-02816-07

Project Manager: Kent Stallings  
[kstallings@vertex.ca](mailto:kstallings@vertex.ca)

Sampler: L. Pullman

On Ice:  Yes  No

# of Coolers: 2

Cooler Temp (including off): 0.8-0.9 menta

Client: Vertex  
(direct bill to Devon)

Mailing Address: North Pure Gold 8 Federal #006 East

Phone #: 22E-02816-07

email or Fax#: 22E-02816-07

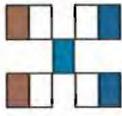
QA/QC Package:  Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance  NELAC  Other

EDD (Type)

|          |       | Analysis Request |             |                                                                                 |                            |                            |                    |                          |               |                                                                                  |            |                 |                                 |
|----------|-------|------------------|-------------|---------------------------------------------------------------------------------|----------------------------|----------------------------|--------------------|--------------------------|---------------|----------------------------------------------------------------------------------|------------|-----------------|---------------------------------|
| Date     | Time  | Matrix           | Sample Name | BTEX / MTBE / TMB's (8021)                                                      | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |
| 01/19/23 | 10:35 | Soil             | BS23-24 4'  | X                                                                               | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/19/23 | 10:40 | Soil             | BS23-25 4'  | X                                                                               | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/19/23 | 10:45 | Soil             | BS23-26 4'  | X                                                                               | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/19/23 | 10:50 | Soil             | BS23-27 4'  | X                                                                               | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/19/23 | 10:55 | Soil             | BS23-28 4'  | X                                                                               | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/19/23 | 11:00 | Soil             | BS23-29 4'  | X                                                                               | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/19/23 | 11:05 | Soil             | BS23-30 4'  | X                                                                               | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/19/23 | 11:10 | Soil             | BS23-31 4'  | X                                                                               | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/19/23 | 11:15 | Soil             | BS23-32 4'  | X                                                                               | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/19/23 | 11:20 | Soil             | BS23-33 4'  | X                                                                               | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/19/23 | 11:25 | Soil             | BS23-34 4'  | X                                                                               | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/19/23 | 11:30 | Soil             | BS23-35 4'  | X                                                                               | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| Date:    | Time: | Relinquished by: |             | Remarks:                                                                        |                            |                            |                    |                          |               |                                                                                  |            |                 |                                 |
| 1-20-23  | 07:00 | L. Pullman       |             | Direct bill to Devon, Dale Woodall<br>cc. kstallings@vertex.ca for Final Report |                            |                            |                    |                          |               |                                                                                  |            |                 |                                 |
| Date:    | Time: | Relinquished by: |             |                                                                                 |                            |                            |                    |                          |               |                                                                                  |            |                 |                                 |
| 1/20/23  | 19:00 | Vertex           |             |                                                                                 |                            |                            |                    |                          |               |                                                                                  |            |                 |                                 |

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**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time: Standard  Rush 5 Day  
 Project Name: North Pure Gold 8 Federal #006 East

Project #: 22E-02816-07  
 Project Manager: Kent Stallings  
 Email: kstallings@vertex.ca

Sampler: L. Pullman  
 On Ice:  Yes  No  
 # of Coolers: 2

Cooler Temp (including CF): 0.0-0.8  
 Container Type and # HEAL No. 2301815

| Date     | Time  | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. |
|----------|-------|--------|-------------|----------------------|-------------------|----------|
| 01/19/23 | 11:35 | Soil   | BS23-36 4'  | 1, 4oz jar           |                   | -675     |
| 01/19/23 | 11:40 | Soil   | BS23-37 4'  | 1, 4oz jar           |                   | -026     |
| 01/19/23 | 11:45 | Soil   | BS23-38 4'  | 1, 4oz jar           |                   | -027     |
| 01/19/23 | 11:50 | Soil   | BS23-39 4'  | 1, 4oz jar           |                   | -028     |
| 01/19/23 | 11:55 | Soil   | BS23-40 4'  | 1, 4oz jar           |                   | -029     |

Received by: [Signature] Date: 1/20/23 Time: 7:00  
 Received by: [Signature] Date: 1/21/23 Time: 10:30

Client: Vertex  
 (direct bill to Devon)

Mailing Address: North Pure Gold 8 Federal #006 East

QA/QC Package:  Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  NELAC  Other  
 EDD (Type): \_\_\_\_\_

| Date     |       | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. |
|----------|-------|------|--------|-------------|----------------------|-------------------|----------|
| 01/19/23 | 11:35 |      | Soil   | BS23-36 4'  | 1, 4oz jar           |                   | -675     |
| 01/19/23 | 11:40 |      | Soil   | BS23-37 4'  | 1, 4oz jar           |                   | -026     |
| 01/19/23 | 11:45 |      | Soil   | BS23-38 4'  | 1, 4oz jar           |                   | -027     |
| 01/19/23 | 11:50 |      | Soil   | BS23-39 4'  | 1, 4oz jar           |                   | -028     |
| 01/19/23 | 11:55 |      | Soil   | BS23-40 4'  | 1, 4oz jar           |                   | -029     |

Date: 1-20-23 Time: 07:00 Relinquished by: [Signature]  
 Date: 1/20/23 Time: 19:00 Relinquished by: [Signature]



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

February 01, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: North Pure Gold 8 Federal 006 East

OrderNo.: 2301866

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 21 sample(s) on 1/24/2023 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-41 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 7:20:00 AM

**Lab ID:** 2301866-001

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 1/27/2023 3:07:55 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 1/27/2023 3:07:55 AM |
| Surr: DNOP                                       | 96.1   | 69-147   |      | %Rec  | 1  | 1/27/2023 3:07:55 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/30/2023 4:56:18 PM |
| Surr: BFB                                        | 105    | 37.7-212 |      | %Rec  | 1  | 1/30/2023 4:56:18 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/30/2023 4:56:18 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/30/2023 4:56:18 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/30/2023 4:56:18 PM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 1/30/2023 4:56:18 PM |
| Surr: 4-Bromofluorobenzene                       | 93.3   | 70-130   |      | %Rec  | 1  | 1/30/2023 4:56:18 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 1500   | 61       |      | mg/Kg | 20 | 1/28/2023 3:18:33 PM |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-42 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 7:25:00 AM

**Lab ID:** 2301866-002

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 1/27/2023 3:38:54 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 1/27/2023 3:38:54 AM |
| Surr: DNOP                                       | 93.1   | 69-147   |      | %Rec  | 1  | 1/27/2023 3:38:54 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/30/2023 6:07:21 PM |
| Surr: BFB                                        | 107    | 37.7-212 |      | %Rec  | 1  | 1/30/2023 6:07:21 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/30/2023 6:07:21 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/30/2023 6:07:21 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/30/2023 6:07:21 PM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 1/30/2023 6:07:21 PM |
| Surr: 4-Bromofluorobenzene                       | 95.9   | 70-130   |      | %Rec  | 1  | 1/30/2023 6:07:21 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 790    | 60       |      | mg/Kg | 20 | 1/28/2023 3:30:53 PM |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-43 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 7:30:00 AM

**Lab ID:** 2301866-003

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 1/27/2023 3:49:17 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 1/27/2023 3:49:17 AM |
| Surr: DNOP                                       | 91.1   | 69-147   |      | %Rec  | 1  | 1/27/2023 3:49:17 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 1/30/2023 7:18:03 PM |
| Surr: BFB                                        | 106    | 37.7-212 |      | %Rec  | 1  | 1/30/2023 7:18:03 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/30/2023 7:18:03 PM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 1/30/2023 7:18:03 PM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 1/30/2023 7:18:03 PM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 1/30/2023 7:18:03 PM |
| Surr: 4-Bromofluorobenzene                       | 95.4   | 70-130   |      | %Rec  | 1  | 1/30/2023 7:18:03 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 1300   | 60       |      | mg/Kg | 20 | 1/28/2023 4:57:18 PM |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-44 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 7:35:00 AM

**Lab ID:** 2301866-004

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 10       |      | mg/Kg | 1  | 1/27/2023 3:59:41 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 1/27/2023 3:59:41 AM |
| Surr: DNOP                                       | 94.1   | 69-147   |      | %Rec  | 1  | 1/27/2023 3:59:41 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/30/2023 7:41:36 PM |
| Surr: BFB                                        | 107    | 37.7-212 |      | %Rec  | 1  | 1/30/2023 7:41:36 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/30/2023 7:41:36 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/30/2023 7:41:36 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/30/2023 7:41:36 PM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 1/30/2023 7:41:36 PM |
| Surr: 4-Bromofluorobenzene                       | 97.0   | 70-130   |      | %Rec  | 1  | 1/30/2023 7:41:36 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 910    | 60       |      | mg/Kg | 20 | 1/28/2023 5:09:38 PM |

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

**Qualifiers:**

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-45 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 7:40:00 AM

**Lab ID:** 2301866-005

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 8.5      |      | mg/Kg | 1  | 1/27/2023 4:10:06 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 43       |      | mg/Kg | 1  | 1/27/2023 4:10:06 AM |
| Surr: DNOP                                       | 107    | 69-147   |      | %Rec  | 1  | 1/27/2023 4:10:06 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/30/2023 8:05:07 PM |
| Surr: BFB                                        | 107    | 37.7-212 |      | %Rec  | 1  | 1/30/2023 8:05:07 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/30/2023 8:05:07 PM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/30/2023 8:05:07 PM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/30/2023 8:05:07 PM |
| Xylenes, Total                                   | ND     | 0.092    |      | mg/Kg | 1  | 1/30/2023 8:05:07 PM |
| Surr: 4-Bromofluorobenzene                       | 96.0   | 70-130   |      | %Rec  | 1  | 1/30/2023 8:05:07 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 350    | 60       |      | mg/Kg | 20 | 1/28/2023 5:21:58 PM |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-46 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 7:45:00 AM

**Lab ID:** 2301866-006

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 10       |      | mg/Kg | 1  | 1/27/2023 4:20:34 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 1/27/2023 4:20:34 AM |
| Surr: DNOP                                       | 103    | 69-147   |      | %Rec  | 1  | 1/27/2023 4:20:34 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/30/2023 8:28:40 PM |
| Surr: BFB                                        | 108    | 37.7-212 |      | %Rec  | 1  | 1/30/2023 8:28:40 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/30/2023 8:28:40 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/30/2023 8:28:40 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/30/2023 8:28:40 PM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/30/2023 8:28:40 PM |
| Surr: 4-Bromofluorobenzene                       | 96.5   | 70-130   |      | %Rec  | 1  | 1/30/2023 8:28:40 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 140    | 60       |      | mg/Kg | 20 | 1/28/2023 5:34:18 PM |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-47 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 7:50:00 AM

**Lab ID:** 2301866-007

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 1/27/2023 4:31:02 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/27/2023 4:31:02 AM |
| Surr: DNOP                                       | 106    | 69-147   |      | %Rec  | 1  | 1/27/2023 4:31:02 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/30/2023 8:52:11 PM |
| Surr: BFB                                        | 107    | 37.7-212 |      | %Rec  | 1  | 1/30/2023 8:52:11 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/30/2023 8:52:11 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/30/2023 8:52:11 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/30/2023 8:52:11 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 1/30/2023 8:52:11 PM |
| Surr: 4-Bromofluorobenzene                       | 96.2   | 70-130   |      | %Rec  | 1  | 1/30/2023 8:52:11 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 180    | 60       |      | mg/Kg | 20 | 1/28/2023 5:46:39 PM |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-48 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 7:55:00 AM

**Lab ID:** 2301866-008

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 1/27/2023 4:41:32 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 1/27/2023 4:41:32 AM |
| Surr: DNOP                                       | 109    | 69-147   |      | %Rec  | 1  | 1/27/2023 4:41:32 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/30/2023 9:15:41 PM |
| Surr: BFB                                        | 105    | 37.7-212 |      | %Rec  | 1  | 1/30/2023 9:15:41 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/30/2023 9:15:41 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/30/2023 9:15:41 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/30/2023 9:15:41 PM |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 1/30/2023 9:15:41 PM |
| Surr: 4-Bromofluorobenzene                       | 94.3   | 70-130   |      | %Rec  | 1  | 1/30/2023 9:15:41 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 110    | 60       |      | mg/Kg | 20 | 1/28/2023 5:58:59 PM |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-49 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 8:00:00 AM

**Lab ID:** 2301866-009

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 8.6      |      | mg/Kg | 1  | 1/27/2023 5:02:26 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 43       |      | mg/Kg | 1  | 1/27/2023 5:02:26 AM |
| Surr: DNOP                                       | 99.8   | 69-147   |      | %Rec  | 1  | 1/27/2023 5:02:26 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/30/2023 9:39:09 PM |
| Surr: BFB                                        | 106    | 37.7-212 |      | %Rec  | 1  | 1/30/2023 9:39:09 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/30/2023 9:39:09 PM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/30/2023 9:39:09 PM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/30/2023 9:39:09 PM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/30/2023 9:39:09 PM |
| Surr: 4-Bromofluorobenzene                       | 94.9   | 70-130   |      | %Rec  | 1  | 1/30/2023 9:39:09 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 300    | 59       |      | mg/Kg | 20 | 1/28/2023 6:36:02 PM |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-50 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 8:05:00 AM

**Lab ID:** 2301866-010

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 1/27/2023 5:13:09 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 1/27/2023 5:13:09 AM  |
| Surr: DNOP                                       | 108    | 69-147   |      | %Rec  | 1  | 1/27/2023 5:13:09 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/30/2023 10:02:35 PM |
| Surr: BFB                                        | 105    | 37.7-212 |      | %Rec  | 1  | 1/30/2023 10:02:35 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/30/2023 10:02:35 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/30/2023 10:02:35 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/30/2023 10:02:35 PM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 1/30/2023 10:02:35 PM |
| Surr: 4-Bromofluorobenzene                       | 93.6   | 70-130   |      | %Rec  | 1  | 1/30/2023 10:02:35 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 180    | 60       |      | mg/Kg | 20 | 1/28/2023 6:48:22 PM  |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-51 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 8:10:00 AM

**Lab ID:** 2301866-011

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 1/27/2023 5:23:51 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/27/2023 5:23:51 AM  |
| Surr: DNOP                                       | 94.1   | 69-147   |      | %Rec  | 1  | 1/27/2023 5:23:51 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/30/2023 11:12:42 PM |
| Surr: BFB                                        | 104    | 37.7-212 |      | %Rec  | 1  | 1/30/2023 11:12:42 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/30/2023 11:12:42 PM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/30/2023 11:12:42 PM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/30/2023 11:12:42 PM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/30/2023 11:12:42 PM |
| Surr: 4-Bromofluorobenzene                       | 93.4   | 70-130   |      | %Rec  | 1  | 1/30/2023 11:12:42 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 72     | 60       |      | mg/Kg | 20 | 1/28/2023 7:00:42 PM  |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-52 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 8:15:00 AM

**Lab ID:** 2301866-012

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 10       |      | mg/Kg | 1  | 1/27/2023 5:34:32 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 1/27/2023 5:34:32 AM  |
| Surr: DNOP                                       | 93.4   | 69-147   |      | %Rec  | 1  | 1/27/2023 5:34:32 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/30/2023 11:36:00 PM |
| Surr: BFB                                        | 105    | 37.7-212 |      | %Rec  | 1  | 1/30/2023 11:36:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/30/2023 11:36:00 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/30/2023 11:36:00 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/30/2023 11:36:00 PM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 1/30/2023 11:36:00 PM |
| Surr: 4-Bromofluorobenzene                       | 94.2   | 70-130   |      | %Rec  | 1  | 1/30/2023 11:36:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/28/2023 7:13:03 PM  |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-53 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 8:20:00 AM

**Lab ID:** 2301866-013

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.4      |      | mg/Kg | 1  | 1/27/2023 5:45:12 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 42       |      | mg/Kg | 1  | 1/27/2023 5:45:12 AM  |
| Surr: DNOP                                       | 93.3   | 69-147   |      | %Rec  | 1  | 1/27/2023 5:45:12 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 1/30/2023 11:59:22 PM |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 1/30/2023 11:59:22 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/30/2023 11:59:22 PM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 1/30/2023 11:59:22 PM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 1/30/2023 11:59:22 PM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 1/30/2023 11:59:22 PM |
| Surr: 4-Bromofluorobenzene                       | 92.0   | 70-130   |      | %Rec  | 1  | 1/30/2023 11:59:22 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 100    | 60       |      | mg/Kg | 20 | 1/28/2023 7:25:23 PM  |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-54 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 8:25:00 AM

**Lab ID:** 2301866-014

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.9      |      | mg/Kg | 1  | 1/27/2023 5:55:52 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 1/27/2023 5:55:52 AM  |
| Surr: DNOP                                       | 95.1   | 69-147   |      | %Rec  | 1  | 1/27/2023 5:55:52 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/31/2023 12:22:40 AM |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 1/31/2023 12:22:40 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/31/2023 12:22:40 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/31/2023 12:22:40 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/31/2023 12:22:40 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 1/31/2023 12:22:40 AM |
| Surr: 4-Bromofluorobenzene                       | 92.4   | 70-130   |      | %Rec  | 1  | 1/31/2023 12:22:40 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 210    | 60       |      | mg/Kg | 20 | 1/28/2023 7:37:44 PM  |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-55 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 8:30:00 AM

**Lab ID:** 2301866-015

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.3      |      | mg/Kg | 1  | 1/27/2023 6:06:25 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 1/27/2023 6:06:25 AM  |
| Surr: DNOP                                       | 92.9   | 69-147   |      | %Rec  | 1  | 1/27/2023 6:06:25 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/31/2023 12:45:55 AM |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 1/31/2023 12:45:55 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/31/2023 12:45:55 AM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/31/2023 12:45:55 AM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/31/2023 12:45:55 AM |
| Xylenes, Total                                   | ND     | 0.092    |      | mg/Kg | 1  | 1/31/2023 12:45:55 AM |
| Surr: 4-Bromofluorobenzene                       | 92.7   | 70-130   |      | %Rec  | 1  | 1/31/2023 12:45:55 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/28/2023 7:50:04 PM  |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-56 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 8:35:00 AM

**Lab ID:** 2301866-016

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 1/27/2023 6:16:53 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 1/27/2023 6:16:53 AM |
| Surr: DNOP                                       | 101    | 69-147   |      | %Rec  | 1  | 1/27/2023 6:16:53 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/31/2023 1:09:08 AM |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 1/31/2023 1:09:08 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/31/2023 1:09:08 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/31/2023 1:09:08 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/31/2023 1:09:08 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 1/31/2023 1:09:08 AM |
| Surr: 4-Bromofluorobenzene                       | 89.8   | 70-130   |      | %Rec  | 1  | 1/31/2023 1:09:08 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 66     | 60       |      | mg/Kg | 20 | 1/28/2023 8:02:26 PM |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-57 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 8:40:00 AM

**Lab ID:** 2301866-017

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 1/27/2023 6:27:20 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 1/27/2023 6:27:20 AM |
| Surr: DNOP                                       | 99.9   | 69-147   |      | %Rec  | 1  | 1/27/2023 6:27:20 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/31/2023 1:32:21 AM |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 1/31/2023 1:32:21 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/31/2023 1:32:21 AM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/31/2023 1:32:21 AM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/31/2023 1:32:21 AM |
| Xylenes, Total                                   | ND     | 0.092    |      | mg/Kg | 1  | 1/31/2023 1:32:21 AM |
| Surr: 4-Bromofluorobenzene                       | 90.8   | 70-130   |      | %Rec  | 1  | 1/31/2023 1:32:21 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 150    | 60       |      | mg/Kg | 20 | 1/28/2023 8:14:46 PM |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-58 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 8:45:00 AM

**Lab ID:** 2301866-018

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 1/27/2023 6:37:45 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 1/27/2023 6:37:45 AM |
| Surr: DNOP                                       | 95.8   | 69-147   |      | %Rec  | 1  | 1/27/2023 6:37:45 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 1/31/2023 1:55:31 AM |
| Surr: BFB                                        | 99.2   | 37.7-212 |      | %Rec  | 1  | 1/31/2023 1:55:31 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/31/2023 1:55:31 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 1/31/2023 1:55:31 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 1/31/2023 1:55:31 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 1/31/2023 1:55:31 AM |
| Surr: 4-Bromofluorobenzene                       | 89.6   | 70-130   |      | %Rec  | 1  | 1/31/2023 1:55:31 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 200    | 59       |      | mg/Kg | 20 | 1/28/2023 8:27:07 PM |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-59 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 8:50:00 AM

**Lab ID:** 2301866-019

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 1/27/2023 6:48:07 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 1/27/2023 6:48:07 AM |
| Surr: DNOP                                       | 101    | 69-147   |      | %Rec  | 1  | 1/27/2023 6:48:07 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/31/2023 2:18:40 AM |
| Surr: BFB                                        | 99.1   | 37.7-212 |      | %Rec  | 1  | 1/31/2023 2:18:40 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/31/2023 2:18:40 AM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/31/2023 2:18:40 AM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/31/2023 2:18:40 AM |
| Xylenes, Total                                   | ND     | 0.092    |      | mg/Kg | 1  | 1/31/2023 2:18:40 AM |
| Surr: 4-Bromofluorobenzene                       | 89.1   | 70-130   |      | %Rec  | 1  | 1/31/2023 2:18:40 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 190    | 60       |      | mg/Kg | 20 | 1/28/2023 9:04:09 PM |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-60 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 8:55:00 AM

**Lab ID:** 2301866-020

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | ND     | 8.9      |      | mg/Kg | 1  | 1/27/2023 6:58:30 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 1/27/2023 6:58:30 AM |
| Surr: DNOP                                       | 100    | 69-147   |      | %Rec  | 1  | 1/27/2023 6:58:30 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/31/2023 2:41:49 AM |
| Surr: BFB                                        | 99.4   | 37.7-212 |      | %Rec  | 1  | 1/31/2023 2:41:49 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/31/2023 2:41:49 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/31/2023 2:41:49 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/31/2023 2:41:49 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 1/31/2023 2:41:49 AM |
| Surr: 4-Bromofluorobenzene                       | 90.0   | 70-130   |      | %Rec  | 1  | 1/31/2023 2:41:49 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 380    | 60       |      | mg/Kg | 20 | 1/28/2023 9:16:30 PM |

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

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

**Analytical Report**

Lab Order **2301866**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-61 4'

**Project:** North Pure Gold 8 Federal 006 East

**Collection Date:** 1/20/2023 9:00:00 AM

**Lab ID:** 2301866-021

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 1/26/2023 2:14:27 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/26/2023 2:14:27 PM |
| Surr: DNOP                                       | 112    | 69-147   |      | %Rec  | 1  | 1/26/2023 2:14:27 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/31/2023 4:37:24 AM |
| Surr: BFB                                        | 99.3   | 37.7-212 |      | %Rec  | 1  | 1/31/2023 4:37:24 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | 0.023  | 0.023    |      | mg/Kg | 1  | 1/31/2023 4:37:24 AM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/31/2023 4:37:24 AM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/31/2023 4:37:24 AM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/31/2023 4:37:24 AM |
| Surr: 4-Bromofluorobenzene                       | 90.0   | 70-130   |      | %Rec  | 1  | 1/31/2023 4:37:24 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 110    | 60       |      | mg/Kg | 20 | 1/30/2023 1:36:18 PM |

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301866

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>MB-72879</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72879</b>          | RunNo: <b>94262</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/28/2023</b> | Analysis Date: <b>1/28/2023</b> | SeqNo: <b>3404665</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-72879</b> | SampType: <b>ics</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72879</b>          | RunNo: <b>94262</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/28/2023</b> | Analysis Date: <b>1/28/2023</b> | SeqNo: <b>3404666</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 96.5 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-72897</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72897</b>          | RunNo: <b>94284</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/30/2023</b> | Analysis Date: <b>1/30/2023</b> | SeqNo: <b>3406221</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-72897</b> | SampType: <b>ics</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72897</b>          | RunNo: <b>94284</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/30/2023</b> | Analysis Date: <b>1/30/2023</b> | SeqNo: <b>3406222</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 94.9 | 90       | 110       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301866

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>MB-72814</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>72814</b>          | RunNo: <b>94191</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>    | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3401999</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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                     | 9.8                             |                                                            | 10.00               |             | 97.6 | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-72814</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72814</b>          | RunNo: <b>94191</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3402000</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 59                              | 10                                                         | 50.00               | 0           | 118  | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 4.7                             |                                                            | 5.000               |             | 94.0 | 69       | 147       |      |          |      |

| Sample ID: <b>MB-72830</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72830</b>          | RunNo: <b>94191</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3402654</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 10                              |                                                            | 10.00              |             | 100  | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-72830</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72830</b>          | RunNo: <b>94191</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3402655</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 4.5                             |                                                            | 5.000              |             | 90.4 | 69       | 147       |      |          |      |

| Sample ID: <b>2301866-001AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-41 4'</b>     | Batch ID: <b>72808</b>          | RunNo: <b>94207</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>      | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403396</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 52                              | 9.2                                                        | 45.83               | 0           | 114  | 54.2     | 135       |      |          |      |
| Surr: DNOP                       | 4.6                             |                                                            | 4.583               |             | 100  | 69       | 147       |      |          |      |

| Sample ID: <b>2301866-001AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-41 4'</b>      | Batch ID: <b>72808</b>          | RunNo: <b>94207</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>       | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403397</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 42                              | 9.1                                                        | 45.66               | 0           | 91.6 | 54.2     | 135       | 21.8 | 29.2     |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301866

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>2301866-001AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-41 4'</b>      | Batch ID: <b>72808</b>          | RunNo: <b>94207</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>       | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403397</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                        | 4.7                             |                                                            | 4.566               |             | 102  | 69       | 147       | 0    | 0        |      |

| Sample ID: <b>LCS-72808</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72808</b>          | RunNo: <b>94207</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b> | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403441</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 54                              | 10                                                         | 50.00               | 0           | 108  | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 4.4                             |                                                            | 5.000               |             | 87.6 | 69       | 147       |      |          |      |

| Sample ID: <b>MB-72808</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>72808</b>          | RunNo: <b>94207</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>    | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403445</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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                     | 8.8                             |                                                            | 10.00               |             | 88.2 | 69       | 147       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301866

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>ics-72801</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>72801</b>          |     | RunNo: <b>94272</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>   | Analysis Date: <b>1/30/2023</b> |     | SeqNo: <b>3405390</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 31                              | 5.0 | 25.00                                             | 0           | 124                 | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 1200                            |     | 1000                                              |             | 117                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>ics-72809</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>72809</b>          |     | RunNo: <b>94272</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>   | Analysis Date: <b>1/31/2023</b> |     | SeqNo: <b>3405391</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 28                              | 5.0 | 25.00                                             | 0           | 113                 | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 1100                            |     | 1000                                              |             | 111                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>mb-72801</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>72801</b>          |     | RunNo: <b>94272</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>   | Analysis Date: <b>1/30/2023</b> |     | SeqNo: <b>3405392</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0 |                                                   |             |                     |          |           |      |          |      |
| Surr: BFB                     | 1100                            |     | 1000                                              |             | 106                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>mb-72809</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>72809</b>          |     | RunNo: <b>94272</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>   | Analysis Date: <b>1/31/2023</b> |     | SeqNo: <b>3405393</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>2301866-001ams</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|----------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-41 4'</b>     | Batch ID: <b>72801</b>          |     | RunNo: <b>94272</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>      | Analysis Date: <b>1/30/2023</b> |     | SeqNo: <b>3405395</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 28                              | 4.8 | 23.97                                             | 0           | 117                 | 70       | 130       |      |          |      |
| Surr: BFB                        | 1100                            |     | 958.8                                             |             | 115                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>2301866-001amsd</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-----------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-41 4'</b>      | Batch ID: <b>72801</b>          |     | RunNo: <b>94272</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>       | Analysis Date: <b>1/30/2023</b> |     | SeqNo: <b>3405396</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301866

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>2301866-001amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-41 4'</b>      | Batch ID: <b>72801</b>          | RunNo: <b>94272</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>       | Analysis Date: <b>1/30/2023</b> | SeqNo: <b>3405396</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 26                              | 4.8                                               | 23.79               | 0           | 111  | 70       | 130       | 5.44 | 20       |      |
| Surr: BFB                         | 1100                            |                                                   | 951.5               |             | 119  | 37.7     | 212       | 0    | 0        |      |

| Sample ID: <b>2301866-021ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-61 4'</b>     | Batch ID: <b>72809</b>          | RunNo: <b>94272</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>      | Analysis Date: <b>1/31/2023</b> | SeqNo: <b>3405417</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 25                              | 4.6                                               | 23.11               | 0           | 109  | 70       | 130       |      |          |      |
| Surr: BFB                        | 1000                            |                                                   | 924.2               |             | 111  | 37.7     | 212       |      |          |      |

| Sample ID: <b>2301866-021amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-61 4'</b>      | Batch ID: <b>72809</b>          | RunNo: <b>94272</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>       | Analysis Date: <b>1/31/2023</b> | SeqNo: <b>3405418</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 26                              | 4.6                                               | 23.15               | 0           | 113  | 70       | 130       | 3.62 | 20       |      |
| Surr: BFB                         | 1000                            |                                                   | 925.9               |             | 112  | 37.7     | 212       | 0    | 0        |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301866

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>LCS-72801</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72801</b>          | RunNo: <b>94272</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b> | Analysis Date: <b>1/30/2023</b> | SeqNo: <b>3405428</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.97                            | 0.025                                        | 1.000               | 0           | 97.2 | 80       | 120       |      |          |      |
| Toluene                     | 0.98                            | 0.050                                        | 1.000               | 0           | 98.2 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.98                            | 0.050                                        | 1.000               | 0           | 97.5 | 80       | 120       |      |          |      |
| Xylenes, Total              | 3.0                             | 0.10                                         | 3.000               | 0           | 98.7 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.97                            |                                              | 1.000               |             | 97.0 | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-72809</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72809</b>          | RunNo: <b>94272</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b> | Analysis Date: <b>1/31/2023</b> | SeqNo: <b>3405429</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.91                            | 0.025                                        | 1.000               | 0           | 90.6 | 80       | 120       |      |          |      |
| Toluene                     | 0.91                            | 0.050                                        | 1.000               | 0           | 91.4 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.89                            | 0.050                                        | 1.000               | 0           | 89.2 | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.7                             | 0.10                                         | 3.000               | 0           | 89.0 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.91                            |                                              | 1.000               |             | 91.1 | 70       | 130       |      |          |      |

| Sample ID: <b>mb-72801</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72801</b>          | RunNo: <b>94272</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b> | Analysis Date: <b>1/30/2023</b> | SeqNo: <b>3405430</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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  | 0.93                            |                                              | 1.000               |             | 93.3 | 70       | 130       |      |          |      |

| Sample ID: <b>mb-72809</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72809</b>          | RunNo: <b>94272</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b> | Analysis Date: <b>1/31/2023</b> | SeqNo: <b>3405431</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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  | 0.91                            |                                              | 1.000               |             | 91.0 | 70       | 130       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301866

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 East

| Sample ID: <b>2301866-002ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-42 4'</b>     | Batch ID: <b>72801</b>          | RunNo: <b>94272</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>      | Analysis Date: <b>1/30/2023</b> | SeqNo: <b>3405434</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.88                            | 0.024                                        | 0.9461              | 0           | 93.5 | 68.8     | 120       |      |          |      |
| Toluene                          | 0.89                            | 0.047                                        | 0.9461              | 0.01706     | 92.3 | 73.6     | 124       |      |          |      |
| Ethylbenzene                     | 0.89                            | 0.047                                        | 0.9461              | 0           | 94.3 | 72.7     | 129       |      |          |      |
| Xylenes, Total                   | 2.7                             | 0.095                                        | 2.838               | 0           | 94.9 | 75.7     | 126       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.90                            |                                              | 0.9461              |             | 95.6 | 70       | 130       |      |          |      |

| Sample ID: <b>2301866-002amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-42 4'</b>      | Batch ID: <b>72801</b>          | RunNo: <b>94272</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>       | Analysis Date: <b>1/30/2023</b> | SeqNo: <b>3405435</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                           | 0.86                            | 0.024                                        | 0.9479              | 0           | 90.5 | 68.8     | 120       | 2.98 | 20       |      |
| Toluene                           | 0.87                            | 0.047                                        | 0.9479              | 0.01706     | 90.1 | 73.6     | 124       | 2.13 | 20       |      |
| Ethylbenzene                      | 0.87                            | 0.047                                        | 0.9479              | 0           | 91.6 | 72.7     | 129       | 2.68 | 20       |      |
| Xylenes, Total                    | 2.6                             | 0.095                                        | 2.844               | 0           | 91.9 | 75.7     | 126       | 3.03 | 20       |      |
| Surr: 4-Bromofluorobenzene        | 0.89                            |                                              | 0.9479              |             | 94.4 | 70       | 130       | 0    | 0        |      |

**Qualifiers:**

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



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

# Sample Log-In Check List

Client Name: **Vertex Resources Services, Inc.** Work Order Number: **2301866** RcptNo: **1**

Received By: **Joseph Alderette** 1/24/2023 1:40:00 PM  
Completed By: **Desiree Dominguez** 1/24/2023 1:57:57 PM  
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
- 4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- 5. Sample(s) in proper container(s)? Yes  No
- 6. Sufficient sample volume for indicated test(s)? Yes  No
- 7. Are samples (except VOA and ONG) properly preserved? Yes  No
- 8. Was preservative added to bottles? Yes  No  NA
- 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
- 10. Were any sample containers received broken? Yes  No
- 11. Does paperwork match bottle labels? Yes  No   
(Note discrepancies on chain of custody)
- 12. Are matrices correctly identified on Chain of Custody? Yes  No
- 13. Is it clear what analyses were requested? Yes  No
- 14. Were all holding times able to be met? Yes  No   
(If no, notify customer for authorization.)

# of preserved bottles checked for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: *JA 1-23-24*

### Special Handling (if applicable)

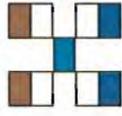
- 15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

16. Additional remarks:  
COC missing client info (on file) - DAD 1/24/23

### 17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 1.6     | Good      | Not Present | Yogi    |           |           |



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time:

Standard  Rush 5 Day

Project Name:

**North Pure Gold 8 Federal #006 East**

Project #:

**22E-02816-07**

Project Manager:

Kent Stallings

[kstallings@vertex.ca](mailto:kstallings@vertex.ca)

Sampler: L. Pullman

On Ice:  Yes  No

# of Coolers: /

Cooler Temp (including CF): 1.8-0.2 = 1.6 °C *log*

Container Type and #

Preservative Type

HEAL No. 2301866

| Date     | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. | BTEX / MTBE / TMBs (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |
|----------|------|--------|-------------|----------------------|-------------------|----------|---------------------------|----------------------------|----------------------------|--------------------|--------------------------|---------------|----------------------------------------------------------------------------------|------------|-----------------|---------------------------------|
| 01/20/23 | 7:20 | Soil   | BS23-41 4'  | 1, 4oz jar           |                   | - 001    | X                         | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/20/23 | 7:25 | Soil   | BS23-42 4'  | 1, 4oz jar           |                   | - 002    | X                         | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/20/23 | 7:30 | Soil   | BS23-43 4'  | 1, 4oz jar           |                   | - 003    | X                         | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/20/23 | 7:35 | Soil   | BS23-44 4'  | 1, 4oz jar           |                   | - 004    | X                         | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/20/23 | 7:40 | Soil   | BS23-45 4'  | 1, 4oz jar           |                   | - 005    | X                         | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/20/23 | 7:45 | Soil   | BS23-46 4'  | 1, 4oz jar           |                   | - 006    | X                         | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/20/23 | 7:50 | Soil   | BS23-47 4'  | 1, 4oz jar           |                   | - 007    | X                         | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/20/23 | 7:55 | Soil   | BS23-48 4'  | 1, 4oz jar           |                   | - 008    | X                         | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/20/23 | 8:00 | Soil   | BS23-49 4'  | 1, 4oz jar           |                   | - 009    | X                         | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/20/23 | 8:05 | Soil   | BS23-50 4'  | 1, 4oz jar           |                   | - 010    | X                         | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/20/23 | 8:10 | Soil   | BS23-51 4'  | 1, 4oz jar           |                   | - 011    | X                         | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |
| 01/20/23 | 8:15 | Soil   | BS23-52 4'  | 1, 4oz jar           |                   | - 012    | X                         | X                          |                            |                    |                          |               | X                                                                                |            |                 |                                 |

Remarks:

Direct bill to Devon, Dale Woodall  
cc. [kstallings@vertex.ca](mailto:kstallings@vertex.ca) for Final Report

Received by: *[Signature]* Date: 1-23-23 Time: 7:00

Received by: *[Signature]* Date: 1-24-23 Time: 13:40

Received Chain of Custody Record

Client: Vertex

(direct bill to Devon)

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance

NELAC  Other

EDD (Type)

Date: 1-23-23 Time: 07:00

Relinquished by: *[Signature]*

Date: 1-23-23 Time: 19:00

Relinquished by: *[Signature]*

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: [www.hallenvironmental.com](http://www.hallenvironmental.com)

February 20, 2020

Amanda Davis  
Devon Energy  
6488 Seven Rivers Highway  
Artesia, NM 88210  
TEL: (575) 748-0176  
FAX

RE: North Pure Gold 8 Fed 6

OrderNo.: 2002522

Dear Amanda Davis:

Hall Environmental Analysis Laboratory received 8 sample(s) on 2/13/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2002522**

Date Reported: 2/20/2020

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH20-02@0'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/8/2020 12:30:00 PM

**Lab ID:** 2002522-001

**Matrix:** SOIL

**Received Date:** 2/13/2020 10:18:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>CLP</b>   |
| Diesel Range Organics (DRO)                      | 50000  | 1900     |      | mg/Kg | 200 | 2/17/2020 12:00:06 PM |
| Motor Oil Range Organics (MRO)                   | 20000  | 9400     |      | mg/Kg | 200 | 2/17/2020 12:00:06 PM |
| Surr: DNOP                                       | 0      | 55.1-146 | S    | %Rec  | 200 | 2/17/2020 12:00:06 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | 660    | 50       |      | mg/Kg | 10  | 2/14/2020 12:43:51 PM |
| Surr: BFB                                        | 397    | 66.6-105 | S    | %Rec  | 10  | 2/14/2020 12:43:51 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>   |
| Benzene                                          | 0.32   | 0.25     |      | mg/Kg | 10  | 2/14/2020 12:43:51 PM |
| Toluene                                          | 5.0    | 0.50     |      | mg/Kg | 10  | 2/14/2020 12:43:51 PM |
| Ethylbenzene                                     | 7.6    | 0.50     |      | mg/Kg | 10  | 2/14/2020 12:43:51 PM |
| Xylenes, Total                                   | 32     | 1.0      |      | mg/Kg | 10  | 2/14/2020 12:43:51 PM |
| Surr: 4-Bromofluorobenzene                       | 118    | 80-120   |      | %Rec  | 10  | 2/14/2020 12:43:51 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>CAS</b>   |
| Chloride                                         | 14000  | 600      |      | mg/Kg | 200 | 2/19/2020 2:15:59 AM  |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2002522**

Date Reported: **2/20/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH20-03@0'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/8/2020 1:00:00 PM

**Lab ID:** 2002522-002

**Matrix:** SOIL

**Received Date:** 2/13/2020 10:18:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>CLP</b>   |
| Diesel Range Organics (DRO)                      | 29000  | 1900     |      | mg/Kg | 200 | 2/17/2020 12:25:13 PM |
| Motor Oil Range Organics (MRO)                   | 13000  | 9400     |      | mg/Kg | 200 | 2/17/2020 12:25:13 PM |
| Surr: DNOP                                       | 0      | 55.1-146 | S    | %Rec  | 200 | 2/17/2020 12:25:13 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | 650    | 25       |      | mg/Kg | 5   | 2/14/2020 1:30:50 PM  |
| Surr: BFB                                        | 559    | 66.6-105 | S    | %Rec  | 5   | 2/14/2020 1:30:50 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>   |
| Benzene                                          | 0.46   | 0.12     |      | mg/Kg | 5   | 2/14/2020 1:30:50 PM  |
| Toluene                                          | 7.0    | 0.25     |      | mg/Kg | 5   | 2/14/2020 1:30:50 PM  |
| Ethylbenzene                                     | 6.1    | 0.25     |      | mg/Kg | 5   | 2/14/2020 1:30:50 PM  |
| Xylenes, Total                                   | 24     | 0.50     |      | mg/Kg | 5   | 2/14/2020 1:30:50 PM  |
| Surr: 4-Bromofluorobenzene                       | 140    | 80-120   | S    | %Rec  | 5   | 2/14/2020 1:30:50 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>CAS</b>   |
| Chloride                                         | 7300   | 300      |      | mg/Kg | 100 | 2/19/2020 2:28:21 AM  |

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

**Qualifiers:**

- |                                                         |                                                   |
|---------------------------------------------------------|---------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2002522**

Date Reported: 2/20/2020

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH20-05@0'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/8/2020 1:55:00 PM

**Lab ID:** 2002522-003

**Matrix:** SOIL

**Received Date:** 2/13/2020 10:18:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>CLP</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.1      |      | mg/Kg | 1  | 2/17/2020 12:43:27 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/17/2020 12:43:27 PM |
| Surr: DNOP                                       | 92.7   | 55.1-146 |      | %Rec  | 1  | 2/17/2020 12:43:27 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/14/2020 2:17:57 PM  |
| Surr: BFB                                        | 80.6   | 66.6-105 |      | %Rec  | 1  | 2/14/2020 2:17:57 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/14/2020 2:17:57 PM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/14/2020 2:17:57 PM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/14/2020 2:17:57 PM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/14/2020 2:17:57 PM  |
| Surr: 4-Bromofluorobenzene                       | 88.0   | 80-120   |      | %Rec  | 1  | 2/14/2020 2:17:57 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CJS</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/18/2020 12:37:15 AM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2002522**

Date Reported: 2/20/2020

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH20-07@0'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/8/2020 2:45:00 PM

**Lab ID:** 2002522-004

**Matrix:** SOIL

**Received Date:** 2/13/2020 10:18:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>CLP</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 2/17/2020 12:52:42 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/17/2020 12:52:42 PM |
| Surr: DNOP                                       | 76.2   | 55.1-146 |      | %Rec  | 1  | 2/17/2020 12:52:42 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/14/2020 2:41:15 PM  |
| Surr: BFB                                        | 85.6   | 66.6-105 |      | %Rec  | 1  | 2/14/2020 2:41:15 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/14/2020 2:41:15 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/14/2020 2:41:15 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/14/2020 2:41:15 PM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/14/2020 2:41:15 PM  |
| Surr: 4-Bromofluorobenzene                       | 94.9   | 80-120   |      | %Rec  | 1  | 2/14/2020 2:41:15 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CJS</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/18/2020 12:49:36 AM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2002522**

Date Reported: 2/20/2020

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH20-08@0'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/8/2020 3:15:00 PM

**Lab ID:** 2002522-005

**Matrix:** SOIL

**Received Date:** 2/13/2020 10:18:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>CLP</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.3      |      | mg/Kg | 1  | 2/17/2020 1:01:59 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/17/2020 1:01:59 PM |
| Surr: DNOP                                       | 82.8   | 55.1-146 |      | %Rec  | 1  | 2/17/2020 1:01:59 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/14/2020 3:04:41 PM |
| Surr: BFB                                        | 84.2   | 66.6-105 |      | %Rec  | 1  | 2/14/2020 3:04:41 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/14/2020 3:04:41 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/14/2020 3:04:41 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/14/2020 3:04:41 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/14/2020 3:04:41 PM |
| Surr: 4-Bromofluorobenzene                       | 93.2   | 80-120   |      | %Rec  | 1  | 2/14/2020 3:04:41 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CJS</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/18/2020 1:26:38 AM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2002522**

Date Reported: 2/20/2020

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH20-09@0'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/8/2020 3:45:00 PM

**Lab ID:** 2002522-006

**Matrix:** SOIL

**Received Date:** 2/13/2020 10:18:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>CLP</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 2/17/2020 1:11:20 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 2/17/2020 1:11:20 PM |
| Surr: DNOP                                       | 87.4   | 55.1-146 |      | %Rec  | 1  | 2/17/2020 1:11:20 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/14/2020 3:28:17 PM |
| Surr: BFB                                        | 82.7   | 66.6-105 |      | %Rec  | 1  | 2/14/2020 3:28:17 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/14/2020 3:28:17 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/14/2020 3:28:17 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/14/2020 3:28:17 PM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 2/14/2020 3:28:17 PM |
| Surr: 4-Bromofluorobenzene                       | 91.2   | 80-120   |      | %Rec  | 1  | 2/14/2020 3:28:17 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CJS</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/18/2020 1:38:59 AM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002522

20-Feb-20

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>MB-50487</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>50487</b>          | RunNo: <b>66591</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/17/2020</b> | Analysis Date: <b>2/17/2020</b> | SeqNo: <b>2288952</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-50487</b> | SampType: <b>ics</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>50487</b>          | RunNo: <b>66591</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/17/2020</b> | Analysis Date: <b>2/17/2020</b> | SeqNo: <b>2288953</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 92.2 | 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002522

20-Feb-20

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>MB-50455</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>50455</b>          | RunNo: <b>66580</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/14/2020</b>    | Analysis Date: <b>2/17/2020</b> | SeqNo: <b>2288366</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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                     | 9.1                             |                                                            | 10.00               |             | 91.1 | 55.1     | 146       |      |          |      |

| Sample ID: <b>LCS-50455</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>50455</b>          | RunNo: <b>66580</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/14/2020</b> | Analysis Date: <b>2/17/2020</b> | SeqNo: <b>2288367</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 51                              | 10                                                         | 50.00               | 0           | 101  | 70       | 130       |      |          |      |
| Surr: DNOP                  | 4.4                             |                                                            | 5.000               |             | 89.0 | 55.1     | 146       |      |          |      |

| Sample ID: <b>MB-50453</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>50453</b>          | RunNo: <b>66580</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>2/14/2020</b> | Analysis Date: <b>2/17/2020</b> | SeqNo: <b>2288580</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 8.6                             |                                                            | 10.00              |             | 85.7 | 55.1     | 146       |      |          |      |

| Sample ID: <b>LCS-50453</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>50453</b>          | RunNo: <b>66580</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>2/14/2020</b> | Analysis Date: <b>2/17/2020</b> | SeqNo: <b>2288581</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 4.1                             |                                                            | 5.000              |             | 82.4 | 55.1     | 146       |      |          |      |

**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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2002522

20-Feb-20

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>MB-50443</b>    | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>50443</b>          | RunNo: <b>66571</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/13/2020</b>   | Analysis Date: <b>2/14/2020</b> | SeqNo: <b>2287764</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0                                               |                     |             |      |          |           |      |          |      |
| Surr: BFB                     | 780                             |                                                   | 1000                |             | 78.3 | 66.6     | 105       |      |          |      |

| Sample ID: <b>LCS-50443</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>50443</b>          | RunNo: <b>66571</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/13/2020</b>   | Analysis Date: <b>2/14/2020</b> | SeqNo: <b>2287765</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21                              | 5.0                                               | 25.00               | 0           | 85.3 | 80       | 120       |      |          |      |
| Surr: BFB                     | 890                             |                                                   | 1000                |             | 88.9 | 66.6     | 105       |      |          |      |

| Sample ID: <b>2002522-002ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH20-03@0'</b>     | Batch ID: <b>50443</b>          | RunNo: <b>66571</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/13/2020</b>      | Analysis Date: <b>2/14/2020</b> | SeqNo: <b>2287769</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 620                             | 25                                                | 24.63               | 650.5       | -113 | 69.1     | 142       |      |          | S    |
| Surr: BFB                        | 26000                           |                                                   | 4926                |             | 527  | 66.6     | 105       |      |          | S    |

| Sample ID: <b>2002522-002amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH20-03@0'</b>      | Batch ID: <b>50443</b>          | RunNo: <b>66571</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/13/2020</b>       | Analysis Date: <b>2/14/2020</b> | SeqNo: <b>2287770</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 690                             | 25                                                | 24.90               | 650.5       | 143  | 69.1     | 142       | 9.71 | 20       | S    |
| Surr: BFB                         | 27000                           |                                                   | 4980                |             | 552  | 66.6     | 105       | 0    | 0        | S    |

| Sample ID: <b>mb-50435</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>50435</b>          | RunNo: <b>66571</b>                               |                    |             |      |          |           |      |          |      |
| Prep Date: <b>2/13/2020</b> | Analysis Date: <b>2/15/2020</b> | SeqNo: <b>2287867</b>                             | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                               | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                   | 790                             |                                                   | 1000               |             | 78.7 | 66.6     | 105       |      |          |      |

| Sample ID: <b>ics-50435</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>50435</b>          | RunNo: <b>66571</b>                               |                    |             |      |          |           |      |          |      |
| Prep Date: <b>2/13/2020</b> | Analysis Date: <b>2/15/2020</b> | SeqNo: <b>2287868</b>                             | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                               | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                   | 870                             |                                                   | 1000               |             | 87.4 | 66.6     | 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 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2002522

20-Feb-20

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>MB-50443</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>50443</b>          | RunNo: <b>66571</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/13/2020</b> | Analysis Date: <b>2/14/2020</b> | SeqNo: <b>2287894</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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  | 0.87                            |                                              | 1.000               |             | 87.2 | 80       | 120       |      |          |      |

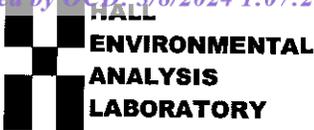
| Sample ID: <b>LCS-50443</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>50443</b>          | RunNo: <b>66571</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/13/2020</b> | Analysis Date: <b>2/14/2020</b> | SeqNo: <b>2287895</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.85                            | 0.025                                        | 1.000               | 0           | 85.1 | 80       | 120       |      |          |      |
| Toluene                     | 0.88                            | 0.050                                        | 1.000               | 0           | 87.9 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.89                            | 0.050                                        | 1.000               | 0           | 89.1 | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.7                             | 0.10                                         | 3.000               | 0           | 90.8 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.89                            |                                              | 1.000               |             | 89.2 | 80       | 120       |      |          |      |

| Sample ID: <b>2002522-001ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |       |          |           |      |          |      |
|----------------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|-------|----------|-----------|------|----------|------|
| Client ID: <b>BH20-02@0'</b>     | Batch ID: <b>50443</b>          | RunNo: <b>66571</b>                          |                     |             |       |          |           |      |          |      |
| Prep Date: <b>2/13/2020</b>      | Analysis Date: <b>2/14/2020</b> | SeqNo: <b>2287898</b>                        | Units: <b>mg/Kg</b> |             |       |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.94                            | 0.25                                         | 0.9881              | 0.3167      | 63.4  | 78.5     | 119       |      |          | S    |
| Toluene                          | 4.8                             | 0.49                                         | 0.9881              | 4.972       | -19.5 | 75.7     | 123       |      |          | S    |
| Ethylbenzene                     | 7.1                             | 0.49                                         | 0.9881              | 7.552       | -44.3 | 74.3     | 126       |      |          | S    |
| Xylenes, Total                   | 29                              | 0.99                                         | 2.964               | 31.52       | -86.7 | 72.9     | 130       |      |          | S    |
| Surr: 4-Bromofluorobenzene       | 12                              |                                              | 9.881               |             | 118   | 80       | 120       |      |          |      |

| Sample ID: <b>2002522-001amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |       |          |           |      |          |      |
|-----------------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|-------|----------|-----------|------|----------|------|
| Client ID: <b>BH20-02@0'</b>      | Batch ID: <b>50443</b>          | RunNo: <b>66571</b>                          |                     |             |       |          |           |      |          |      |
| Prep Date: <b>2/13/2020</b>       | Analysis Date: <b>2/14/2020</b> | SeqNo: <b>2287899</b>                        | Units: <b>mg/Kg</b> |             |       |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                           | 1.1                             | 0.25                                         | 0.9990              | 0.3167      | 77.1  | 78.5     | 119       | 14.1 | 20       | S    |
| Toluene                           | 5.0                             | 0.50                                         | 0.9990              | 4.972       | 1.79  | 75.7     | 123       | 4.31 | 20       | S    |
| Ethylbenzene                      | 6.7                             | 0.50                                         | 0.9990              | 7.552       | -81.3 | 74.3     | 126       | 5.41 | 20       | S    |
| Xylenes, Total                    | 27                              | 1.0                                          | 2.997               | 31.52       | -148  | 72.9     | 130       | 6.61 | 20       | S    |
| Surr: 4-Bromofluorobenzene        | 11                              |                                              | 9.990               |             | 114   | 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 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



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

# Sample Log-In Check List

Client Name: **DEVON ENERGY** Work Order Number: **2002522** RcptNo: 1

Received By: Leah Baca <sup>Juan Rojas</sup> 2/13/20 10:18:00 AM  
Completed By: Isaiah Ortiz 2/13/20 11:16:42 AM  
Reviewed By: YG 2/13/20

### Chain of Custody

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

### Log In

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

# of preserved bottles checked for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: JR 2/13/20

### Special Handling (if applicable)

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

|                      |                      |       |                                                                                                                               |
|----------------------|----------------------|-------|-------------------------------------------------------------------------------------------------------------------------------|
| Person Notified:     | <input type="text"/> | Date: | <input type="text"/>                                                                                                          |
| By Whom:             | <input type="text"/> | Via:  | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding:           | <input type="text"/> |       |                                                                                                                               |
| Client Instructions: | <input type="text"/> |       |                                                                                                                               |

16. Additional remarks:

### 17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 4.2     | Good      | Not Present |         |           |           |





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

December 15, 2022

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: North Pure Gold 8 Federal 006 West

OrderNo.: 2212214

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 30 sample(s) on 12/6/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-11 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 8:50:00 AM

**Lab ID:** 2212214-001

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 15       |      | mg/Kg | 1  | 12/8/2022 7:55:50 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 12/8/2022 7:55:50 PM  |
| Surr: DNOP                                       | 103    | 21-129   |      | %Rec  | 1  | 12/8/2022 7:55:50 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 12/9/2022 9:32:14 PM  |
| Surr: BFB                                        | 89.9   | 37.7-212 |      | %Rec  | 1  | 12/9/2022 9:32:14 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/9/2022 9:32:14 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 12/9/2022 9:32:14 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 12/9/2022 9:32:14 PM  |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 12/9/2022 9:32:14 PM  |
| Surr: 4-Bromofluorobenzene                       | 91.4   | 70-130   |      | %Rec  | 1  | 12/9/2022 9:32:14 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 59       |      | mg/Kg | 20 | 12/10/2022 3:43:14 AM |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-11 2'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 9:00:00 AM

**Lab ID:** 2212214-002

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 13       |      | mg/Kg | 1  | 12/8/2022 8:09:13 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 12/8/2022 8:09:13 PM  |
| Surr: DNOP                                       | 108    | 21-129   |      | %Rec  | 1  | 12/8/2022 8:09:13 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 12/9/2022 9:55:45 PM  |
| Surr: BFB                                        | 92.2   | 37.7-212 |      | %Rec  | 1  | 12/9/2022 9:55:45 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/9/2022 9:55:45 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 12/9/2022 9:55:45 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 12/9/2022 9:55:45 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 12/9/2022 9:55:45 PM  |
| Surr: 4-Bromofluorobenzene                       | 92.7   | 70-130   |      | %Rec  | 1  | 12/9/2022 9:55:45 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 230    | 60       |      | mg/Kg | 20 | 12/10/2022 3:55:35 AM |

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

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

Analytical Report

Lab Order 2212214

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-11 4'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 9:05:00 AM

**Lab ID:** 2212214-003

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 8:22:32 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 12/8/2022 8:22:32 PM  |
| Surr: DNOP                                       | 124    | 21-129   |      | %Rec  | 1  | 12/8/2022 8:22:32 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/9/2022 10:19:14 PM |
| Surr: BFB                                        | 94.0   | 37.7-212 |      | %Rec  | 1  | 12/9/2022 10:19:14 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/9/2022 10:19:14 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/9/2022 10:19:14 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/9/2022 10:19:14 PM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 12/9/2022 10:19:14 PM |
| Surr: 4-Bromofluorobenzene                       | 95.3   | 70-130   |      | %Rec  | 1  | 12/9/2022 10:19:14 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 240    | 60       |      | mg/Kg | 20 | 12/10/2022 4:07:56 AM |

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

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

Analytical Report

Lab Order 2212214

Date Reported: 12/15/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-12 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 9:10:00 AM

**Lab ID:** 2212214-004

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 15       |      | mg/Kg | 1  | 12/8/2022 8:36:05 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 12/8/2022 8:36:05 PM  |
| Surr: DNOP                                       | 99.9   | 21-129   |      | %Rec  | 1  | 12/8/2022 8:36:05 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 12/9/2022 10:42:46 PM |
| Surr: BFB                                        | 94.2   | 37.7-212 |      | %Rec  | 1  | 12/9/2022 10:42:46 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/9/2022 10:42:46 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 12/9/2022 10:42:46 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 12/9/2022 10:42:46 PM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 12/9/2022 10:42:46 PM |
| Surr: 4-Bromofluorobenzene                       | 95.5   | 70-130   |      | %Rec  | 1  | 12/9/2022 10:42:46 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 64     | 61       |      | mg/Kg | 20 | 12/10/2022 4:20:16 AM |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-12 2'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 9:20:00 AM

**Lab ID:** 2212214-005

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 8:49:41 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 12/8/2022 8:49:41 PM  |
| Surr: DNOP                                       | 108    | 21-129   |      | %Rec  | 1  | 12/8/2022 8:49:41 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 12/9/2022 11:06:17 PM |
| Surr: BFB                                        | 93.7   | 37.7-212 |      | %Rec  | 1  | 12/9/2022 11:06:17 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/9/2022 11:06:17 PM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 12/9/2022 11:06:17 PM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 12/9/2022 11:06:17 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 12/9/2022 11:06:17 PM |
| Surr: 4-Bromofluorobenzene                       | 93.9   | 70-130   |      | %Rec  | 1  | 12/9/2022 11:06:17 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 140    | 60       |      | mg/Kg | 20 | 12/10/2022 4:32:36 AM |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-12 4'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 9:20:00 AM

**Lab ID:** 2212214-006

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 9:03:08 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 12/8/2022 9:03:08 PM  |
| Surr: DNOP                                       | 112    | 21-129   |      | %Rec  | 1  | 12/8/2022 9:03:08 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/9/2022 11:29:49 PM |
| Surr: BFB                                        | 93.3   | 37.7-212 |      | %Rec  | 1  | 12/9/2022 11:29:49 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/9/2022 11:29:49 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/9/2022 11:29:49 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/9/2022 11:29:49 PM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 12/9/2022 11:29:49 PM |
| Surr: 4-Bromofluorobenzene                       | 94.2   | 70-130   |      | %Rec  | 1  | 12/9/2022 11:29:49 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 110    | 60       |      | mg/Kg | 20 | 12/10/2022 4:44:56 AM |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-13 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 9:25:00 AM

**Lab ID:** 2212214-007

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 15       |      | mg/Kg | 1  | 12/12/2022 1:09:31 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 12/12/2022 1:09:31 PM |
| Surr: DNOP                                       | 118    | 21-129   |      | %Rec  | 1  | 12/12/2022 1:09:31 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/9/2022 11:53:20 PM |
| Surr: BFB                                        | 89.5   | 37.7-212 |      | %Rec  | 1  | 12/9/2022 11:53:20 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/9/2022 11:53:20 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/9/2022 11:53:20 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/9/2022 11:53:20 PM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 12/9/2022 11:53:20 PM |
| Surr: 4-Bromofluorobenzene                       | 91.8   | 70-130   |      | %Rec  | 1  | 12/9/2022 11:53:20 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/9/2022 6:34:00 PM  |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-13 2'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 9:30:00 AM

**Lab ID:** 2212214-008

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 9:30:19 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 12/8/2022 9:30:19 PM  |
| Surr: DNOP                                       | 105    | 21-129   |      | %Rec  | 1  | 12/8/2022 9:30:19 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/10/2022 1:03:38 AM |
| Surr: BFB                                        | 94.5   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 1:03:38 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/10/2022 1:03:38 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 1:03:38 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 1:03:38 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 12/10/2022 1:03:38 AM |
| Surr: 4-Bromofluorobenzene                       | 96.9   | 70-130   |      | %Rec  | 1  | 12/10/2022 1:03:38 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 89     | 59       |      | mg/Kg | 20 | 12/9/2022 6:46:24 PM  |

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

**Qualifiers:**

|     |                                                                               |
|-----|-------------------------------------------------------------------------------|
| *   | Value exceeds Maximum Contaminant Level.                                      |
| D   | Sample Diluted Due to Matrix                                                  |
| H   | Holding times for preparation or analysis exceeded                            |
| ND  | Not Detected at the Reporting Limit                                           |
| PQL | Practical Quantitative Limit                                                  |
| S   | % Recovery outside of standard limits. If undiluted results may be estimated. |

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-13 4'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 9:35:00 AM

**Lab ID:** 2212214-009

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 13       |      | mg/Kg | 1  | 12/8/2022 9:43:53 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 44       |      | mg/Kg | 1  | 12/8/2022 9:43:53 PM  |
| Surr: DNOP                                       | 111    | 21-129   |      | %Rec  | 1  | 12/8/2022 9:43:53 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/10/2022 1:27:04 AM |
| Surr: BFB                                        | 90.7   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 1:27:04 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/10/2022 1:27:04 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 1:27:04 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 1:27:04 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 12/10/2022 1:27:04 AM |
| Surr: 4-Bromofluorobenzene                       | 92.2   | 70-130   |      | %Rec  | 1  | 12/10/2022 1:27:04 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 150    | 60       |      | mg/Kg | 20 | 12/9/2022 8:13:13 PM  |

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

**Qualifiers:**

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-14 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 9:40:00 AM

**Lab ID:** 2212214-010

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 15       |      | mg/Kg | 1  | 12/8/2022 9:57:28 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 12/8/2022 9:57:28 PM  |
| Surr: DNOP                                       | 101    | 21-129   |      | %Rec  | 1  | 12/8/2022 9:57:28 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/10/2022 1:50:36 AM |
| Surr: BFB                                        | 96.8   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 1:50:36 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/10/2022 1:50:36 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 1:50:36 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 1:50:36 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 12/10/2022 1:50:36 AM |
| Surr: 4-Bromofluorobenzene                       | 99.1   | 70-130   |      | %Rec  | 1  | 12/10/2022 1:50:36 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/9/2022 8:25:38 PM  |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-14 2'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 9:45:00 AM

**Lab ID:** 2212214-011

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 10:11:04 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 12/8/2022 10:11:04 PM |
| Surr: DNOP                                       | 108    | 21-129   |      | %Rec  | 1  | 12/8/2022 10:11:04 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 12/10/2022 2:14:01 AM |
| Surr: BFB                                        | 93.8   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 2:14:01 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/10/2022 2:14:01 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 12/10/2022 2:14:01 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 12/10/2022 2:14:01 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 12/10/2022 2:14:01 AM |
| Surr: 4-Bromofluorobenzene                       | 96.2   | 70-130   |      | %Rec  | 1  | 12/10/2022 2:14:01 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/9/2022 8:38:02 PM  |

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

**Qualifiers:**

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-14 4'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 9:50:00 AM

**Lab ID:** 2212214-012

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>   |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 4:03:06 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 12/8/2022 4:03:06 PM  |
| Surr: DNOP                                       | 135    | 21-129   | S    | %Rec  | 1  | 12/8/2022 4:03:06 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/10/2022 3:47:27 AM |
| Surr: BFB                                        | 90.8   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 3:47:27 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/10/2022 3:47:27 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 3:47:27 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 3:47:27 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 12/10/2022 3:47:27 AM |
| Surr: 4-Bromofluorobenzene                       | 92.6   | 70-130   |      | %Rec  | 1  | 12/10/2022 3:47:27 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/9/2022 8:50:26 PM  |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-15 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 10:00:00 AM

**Lab ID:** 2212214-013

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>   |
| Diesel Range Organics (DRO)                      | ND     | 15       |      | mg/Kg | 1  | 12/8/2022 5:14:13 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 12/8/2022 5:14:13 PM  |
| Surr: DNOP                                       | 98.2   | 21-129   |      | %Rec  | 1  | 12/8/2022 5:14:13 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/10/2022 4:57:20 AM |
| Surr: BFB                                        | 94.4   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 4:57:20 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/10/2022 4:57:20 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 4:57:20 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 4:57:20 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 12/10/2022 4:57:20 AM |
| Surr: 4-Bromofluorobenzene                       | 96.5   | 70-130   |      | %Rec  | 1  | 12/10/2022 4:57:20 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 59       |      | mg/Kg | 20 | 12/9/2022 9:02:50 PM  |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-15 2'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 10:05:00 AM

**Lab ID:** 2212214-014

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>   |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 5:38:00 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 12/8/2022 5:38:00 PM  |
| Surr: DNOP                                       | 125    | 21-129   |      | %Rec  | 1  | 12/8/2022 5:38:00 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/10/2022 6:07:09 AM |
| Surr: BFB                                        | 92.7   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 6:07:09 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/10/2022 6:07:09 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 6:07:09 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 6:07:09 AM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 12/10/2022 6:07:09 AM |
| Surr: 4-Bromofluorobenzene                       | 95.9   | 70-130   |      | %Rec  | 1  | 12/10/2022 6:07:09 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/9/2022 9:15:15 PM  |

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

**Qualifiers:**

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-15 4'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 10:10:00 AM

**Lab ID:** 2212214-015

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>   |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 6:01:34 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 12/8/2022 6:01:34 PM  |
| Surr: DNOP                                       | 128    | 21-129   |      | %Rec  | 1  | 12/8/2022 6:01:34 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/10/2022 6:30:25 AM |
| Surr: BFB                                        | 91.0   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 6:30:25 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/10/2022 6:30:25 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 6:30:25 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 6:30:25 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 12/10/2022 6:30:25 AM |
| Surr: 4-Bromofluorobenzene                       | 94.1   | 70-130   |      | %Rec  | 1  | 12/10/2022 6:30:25 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 70     | 60       |      | mg/Kg | 20 | 12/9/2022 9:52:27 PM  |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-16 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 10:15:00 AM

**Lab ID:** 2212214-016

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>   |
| Diesel Range Organics (DRO)                      | ND     | 15       |      | mg/Kg | 1  | 12/8/2022 6:25:04 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 12/8/2022 6:25:04 PM  |
| Surr: DNOP                                       | 117    | 21-129   |      | %Rec  | 1  | 12/8/2022 6:25:04 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/10/2022 6:53:41 AM |
| Surr: BFB                                        | 91.3   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 6:53:41 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/10/2022 6:53:41 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 6:53:41 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 6:53:41 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 12/10/2022 6:53:41 AM |
| Surr: 4-Bromofluorobenzene                       | 94.8   | 70-130   |      | %Rec  | 1  | 12/10/2022 6:53:41 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/9/2022 10:04:51 PM |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-16 2'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 10:15:00 AM

**Lab ID:** 2212214-017

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>   |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 6:48:33 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 12/8/2022 6:48:33 PM  |
| Surr: DNOP                                       | 109    | 21-129   |      | %Rec  | 1  | 12/8/2022 6:48:33 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/10/2022 7:17:00 AM |
| Surr: BFB                                        | 95.7   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 7:17:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/10/2022 7:17:00 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 7:17:00 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 7:17:00 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 12/10/2022 7:17:00 AM |
| Surr: 4-Bromofluorobenzene                       | 98.3   | 70-130   |      | %Rec  | 1  | 12/10/2022 7:17:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/9/2022 10:17:15 PM |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-16 4'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 10:20:00 AM

**Lab ID:** 2212214-018

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>   |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 7:12:00 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 12/8/2022 7:12:00 PM  |
| Surr: DNOP                                       | 130    | 21-129   | S    | %Rec  | 1  | 12/8/2022 7:12:00 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/10/2022 8:26:58 AM |
| Surr: BFB                                        | 88.7   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 8:26:58 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/10/2022 8:26:58 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 8:26:58 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 8:26:58 AM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 12/10/2022 8:26:58 AM |
| Surr: 4-Bromofluorobenzene                       | 91.5   | 70-130   |      | %Rec  | 1  | 12/10/2022 8:26:58 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/9/2022 10:29:39 PM |

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

**Qualifiers:**

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-17 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 10:30:00 AM

**Lab ID:** 2212214-019

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>   |
| Diesel Range Organics (DRO)                      | ND     | 13       |      | mg/Kg | 1  | 12/8/2022 7:35:27 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 43       |      | mg/Kg | 1  | 12/8/2022 7:35:27 PM  |
| Surr: DNOP                                       | 124    | 21-129   |      | %Rec  | 1  | 12/8/2022 7:35:27 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/10/2022 8:50:15 AM |
| Surr: BFB                                        | 94.2   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 8:50:15 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/10/2022 8:50:15 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 8:50:15 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 8:50:15 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 12/10/2022 8:50:15 AM |
| Surr: 4-Bromofluorobenzene                       | 96.6   | 70-130   |      | %Rec  | 1  | 12/10/2022 8:50:15 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/9/2022 10:42:03 PM |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-17 2'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 10:35:00 AM

**Lab ID:** 2212214-020

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>   |
| Diesel Range Organics (DRO)                      | ND     | 15       |      | mg/Kg | 1  | 12/8/2022 7:58:54 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 12/8/2022 7:58:54 PM  |
| Surr: DNOP                                       | 124    | 21-129   |      | %Rec  | 1  | 12/8/2022 7:58:54 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 12/10/2022 9:13:35 AM |
| Surr: BFB                                        | 88.6   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 9:13:35 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/10/2022 9:13:35 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 12/10/2022 9:13:35 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 12/10/2022 9:13:35 AM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 12/10/2022 9:13:35 AM |
| Surr: 4-Bromofluorobenzene                       | 90.8   | 70-130   |      | %Rec  | 1  | 12/10/2022 9:13:35 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/9/2022 10:54:28 PM |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-17 4'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 10:40:00 AM

**Lab ID:** 2212214-021

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>   |
| Diesel Range Organics (DRO)                      | ND     | 13       |      | mg/Kg | 1  | 12/8/2022 8:22:34 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 44       |      | mg/Kg | 1  | 12/8/2022 8:22:34 PM  |
| Surr: DNOP                                       | 142    | 21-129   | S    | %Rec  | 1  | 12/8/2022 8:22:34 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/10/2022 9:36:57 AM |
| Surr: BFB                                        | 86.2   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 9:36:57 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/10/2022 9:36:57 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 9:36:57 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 9:36:57 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 12/10/2022 9:36:57 AM |
| Surr: 4-Bromofluorobenzene                       | 89.2   | 70-130   |      | %Rec  | 1  | 12/10/2022 9:36:57 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 61       |      | mg/Kg | 20 | 12/9/2022 11:06:52 PM |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-18 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 10:45:00 AM

**Lab ID:** 2212214-022

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 8:46:14 PM   |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 12/8/2022 8:46:14 PM   |
| Surr: DNOP                                       | 129    | 21-129   | S    | %Rec  | 1  | 12/8/2022 8:46:14 PM   |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 12/10/2022 10:00:23 AM |
| Surr: BFB                                        | 90.5   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 10:00:23 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/10/2022 10:00:23 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 12/10/2022 10:00:23 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 12/10/2022 10:00:23 AM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 12/10/2022 10:00:23 AM |
| Surr: 4-Bromofluorobenzene                       | 93.7   | 70-130   |      | %Rec  | 1  | 12/10/2022 10:00:23 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/9/2022 11:19:16 PM  |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-18 2'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 10:50:00 AM

**Lab ID:** 2212214-023

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 9:09:54 PM   |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 12/8/2022 9:09:54 PM   |
| Surr: DNOP                                       | 110    | 21-129   |      | %Rec  | 1  | 12/8/2022 9:09:54 PM   |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 12/10/2022 10:23:48 AM |
| Surr: BFB                                        | 94.7   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 10:23:48 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/10/2022 10:23:48 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 12/10/2022 10:23:48 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 12/10/2022 10:23:48 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 12/10/2022 10:23:48 AM |
| Surr: 4-Bromofluorobenzene                       | 97.3   | 70-130   |      | %Rec  | 1  | 12/10/2022 10:23:48 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 61       |      | mg/Kg | 20 | 12/9/2022 11:31:40 PM  |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-18 4'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 10:55:00 AM

**Lab ID:** 2212214-024

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 9:33:35 PM   |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 12/8/2022 9:33:35 PM   |
| Surr: DNOP                                       | 92.9   | 21-129   |      | %Rec  | 1  | 12/8/2022 9:33:35 PM   |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/10/2022 10:47:14 AM |
| Surr: BFB                                        | 93.7   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 10:47:14 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/10/2022 10:47:14 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 10:47:14 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 10:47:14 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 12/10/2022 10:47:14 AM |
| Surr: 4-Bromofluorobenzene                       | 96.3   | 70-130   |      | %Rec  | 1  | 12/10/2022 10:47:14 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/9/2022 11:44:05 PM  |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-19 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 11:00:00 AM

**Lab ID:** 2212214-025

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 9:57:15 PM   |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 12/8/2022 9:57:15 PM   |
| Surr: DNOP                                       | 115    | 21-129   |      | %Rec  | 1  | 12/8/2022 9:57:15 PM   |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 12/10/2022 11:10:43 AM |
| Surr: BFB                                        | 91.3   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 11:10:43 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/10/2022 11:10:43 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 12/10/2022 11:10:43 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 12/10/2022 11:10:43 AM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 12/10/2022 11:10:43 AM |
| Surr: 4-Bromofluorobenzene                       | 92.5   | 70-130   |      | %Rec  | 1  | 12/10/2022 11:10:43 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/10/2022 12:21:18 AM |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-19 2'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 11:05:00 AM

**Lab ID:** 2212214-026

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>    |
| Diesel Range Organics (DRO)                      | ND     | 15       |      | mg/Kg | 1  | 12/8/2022 10:20:57 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 12/8/2022 10:20:57 PM  |
| Surr: DNOP                                       | 109    | 21-129   |      | %Rec  | 1  | 12/8/2022 10:20:57 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 12/10/2022 11:34:16 AM |
| Surr: BFB                                        | 92.2   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 11:34:16 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/10/2022 11:34:16 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 12/10/2022 11:34:16 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 12/10/2022 11:34:16 AM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 12/10/2022 11:34:16 AM |
| Surr: 4-Bromofluorobenzene                       | 93.7   | 70-130   |      | %Rec  | 1  | 12/10/2022 11:34:16 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/10/2022 12:33:42 AM |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-19 4'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 11:10:00 AM

**Lab ID:** 2212214-027

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 10:44:41 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 12/8/2022 10:44:41 PM  |
| Surr: DNOP                                       | 117    | 21-129   |      | %Rec  | 1  | 12/8/2022 10:44:41 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 12/10/2022 11:57:48 AM |
| Surr: BFB                                        | 96.1   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 11:57:48 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/10/2022 11:57:48 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 12/10/2022 11:57:48 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 12/10/2022 11:57:48 AM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 12/10/2022 11:57:48 AM |
| Surr: 4-Bromofluorobenzene                       | 97.8   | 70-130   |      | %Rec  | 1  | 12/10/2022 11:57:48 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/10/2022 11:15:47 AM |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-20 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 11:15:00 AM

**Lab ID:** 2212214-028

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 11:08:19 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 12/8/2022 11:08:19 PM  |
| Surr: DNOP                                       | 108    | 21-129   |      | %Rec  | 1  | 12/8/2022 11:08:19 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/10/2022 1:08:15 PM  |
| Surr: BFB                                        | 94.6   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 1:08:15 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 12/10/2022 1:08:15 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 1:08:15 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 1:08:15 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 12/10/2022 1:08:15 PM  |
| Surr: 4-Bromofluorobenzene                       | 96.3   | 70-130   |      | %Rec  | 1  | 12/10/2022 1:08:15 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/10/2022 11:52:48 AM |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-20 2'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 11:15:00 AM

**Lab ID:** 2212214-029

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 11:31:54 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 12/8/2022 11:31:54 PM  |
| Surr: DNOP                                       | 123    | 21-129   |      | %Rec  | 1  | 12/8/2022 11:31:54 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/10/2022 1:31:41 PM  |
| Surr: BFB                                        | 93.3   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 1:31:41 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/10/2022 1:31:41 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 1:31:41 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 1:31:41 PM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 12/10/2022 1:31:41 PM  |
| Surr: 4-Bromofluorobenzene                       | 94.8   | 70-130   |      | %Rec  | 1  | 12/10/2022 1:31:41 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/10/2022 12:05:08 PM |

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

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

**Analytical Report**

Lab Order **2212214**

Date Reported: **12/15/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH22-20 4'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 12/3/2022 11:20:00 AM

**Lab ID:** 2212214-030

**Matrix:** SOIL

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

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed          |
|--------------------------------------------------|--------|----------|------|-------|----|------------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>JME</b>    |
| Diesel Range Organics (DRO)                      | ND     | 14       |      | mg/Kg | 1  | 12/8/2022 11:55:33 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 12/8/2022 11:55:33 PM  |
| Surr: DNOP                                       | 123    | 21-129   |      | %Rec  | 1  | 12/8/2022 11:55:33 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 12/10/2022 1:55:20 PM  |
| Surr: BFB                                        | 94.2   | 37.7-212 |      | %Rec  | 1  | 12/10/2022 1:55:20 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>    |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 12/10/2022 1:55:20 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 1:55:20 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 12/10/2022 1:55:20 PM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 12/10/2022 1:55:20 PM  |
| Surr: 4-Bromofluorobenzene                       | 96.0   | 70-130   |      | %Rec  | 1  | 12/10/2022 1:55:20 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 12/10/2022 12:17:29 PM |

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2212214

15-Dec-22

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>MB-72005</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72005</b>          | RunNo: <b>93172</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/9/2022</b> | Analysis Date: <b>12/9/2022</b> | SeqNo: <b>3357627</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-72005</b> | SampType: <b>ics</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72005</b>          | RunNo: <b>93172</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/9/2022</b> | Analysis Date: <b>12/9/2022</b> | SeqNo: <b>3357628</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 15                              | 1.5                                       | 15.00               | 0           | 97.2 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-72002</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72002</b>          | RunNo: <b>93190</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/9/2022</b> | Analysis Date: <b>12/9/2022</b> | SeqNo: <b>3357982</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-72002</b> | SampType: <b>ics</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72002</b>          | RunNo: <b>93190</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/9/2022</b> | Analysis Date: <b>12/9/2022</b> | SeqNo: <b>3357983</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 96.3 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-72006</b>  | SampType: <b>mblk</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|----------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72006</b>           | RunNo: <b>93192</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/9/2022</b> | Analysis Date: <b>12/10/2022</b> | SeqNo: <b>3358070</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                           | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                               | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-72006</b> | SampType: <b>ics</b>             | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|----------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72006</b>           | RunNo: <b>93192</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/9/2022</b> | Analysis Date: <b>12/10/2022</b> | SeqNo: <b>3358071</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                           | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                               | 1.5                                       | 15.00               | 0           | 95.8 | 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 Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2212214

15-Dec-22

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>MB-71925</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>71925</b>          | RunNo: <b>93133</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b>    | Analysis Date: <b>12/8/2022</b> | SeqNo: <b>3354846</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                        | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND                              | 15                                                         |                     |             |      |          |           |      |          |      |
| Motor Oil Range Organics (MRO) | ND                              | 50                                                         |                     |             |      |          |           |      |          |      |
| Surr: DNOP                     | 12                              |                                                            | 10.00               |             | 119  | 21       | 129       |      |          |      |

| Sample ID: <b>LCS-71925</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>71925</b>          | RunNo: <b>93133</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b> | Analysis Date: <b>12/8/2022</b> | SeqNo: <b>3354847</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 59                              | 15                                                         | 50.00               | 0           | 118  | 64.4     | 127       |      |          |      |
| Surr: DNOP                  | 5.5                             |                                                            | 5.000               |             | 111  | 21       | 129       |      |          |      |

| Sample ID: <b>2212214-012AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH22-14 4'</b>     | Batch ID: <b>71925</b>          | RunNo: <b>93133</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b>      | Analysis Date: <b>12/8/2022</b> | SeqNo: <b>3354849</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 49                              | 14                                                         | 45.54               | 0           | 108  | 36.1     | 154       |      |          |      |
| Surr: DNOP                       | 4.9                             |                                                            | 4.554               |             | 107  | 21       | 129       |      |          |      |

| Sample ID: <b>2212214-012AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH22-14 4'</b>      | Batch ID: <b>71925</b>          | RunNo: <b>93133</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b>       | Analysis Date: <b>12/8/2022</b> | SeqNo: <b>3354850</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 55                              | 14                                                         | 46.69               | 0           | 117  | 36.1     | 154       | 11.1 | 33.9     |      |
| Surr: DNOP                        | 5.3                             |                                                            | 4.669               |             | 114  | 21       | 129       | 0    | 0        |      |

| Sample ID: <b>MB-71920</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>71920</b>          | RunNo: <b>93122</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b>    | Analysis Date: <b>12/8/2022</b> | SeqNo: <b>3356908</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                        | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND                              | 15                                                         |                     |             |      |          |           |      |          |      |
| Motor Oil Range Organics (MRO) | ND                              | 50                                                         |                     |             |      |          |           |      |          |      |
| Surr: DNOP                     | 11                              |                                                            | 10.00               |             | 108  | 21       | 129       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2212214

15-Dec-22

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>LCS-71920</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>71920</b>          | RunNo: <b>93122</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b> | Analysis Date: <b>12/8/2022</b> | SeqNo: <b>3356909</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 57                              | 15                                                         | 50.00               | 0           | 113  | 64.4     | 127       |      |          |      |
| Surr: DNOP                  | 5.4                             |                                                            | 5.000               |             | 107  | 21       | 129       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2212214

15-Dec-22

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>mb-71909</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>71909</b>          |     | RunNo: <b>93131</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b>   | Analysis Date: <b>12/9/2022</b> |     | SeqNo: <b>3354774</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0 |                                                   |             |                     |          |           |      |          |      |
| Surr: BFB                     | 870                             |     | 1000                                              |             | 86.9                | 37.7     | 212       |      |          |      |

| Sample ID: <b>lcs-71909</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>71909</b>          |     | RunNo: <b>93131</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b>   | Analysis Date: <b>12/9/2022</b> |     | SeqNo: <b>3354775</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24                              | 5.0 | 25.00                                             | 0           | 96.9                | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 1800                            |     | 1000                                              |             | 185                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>mb-71918</b>    | SampType: <b>MBLK</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|----------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>71918</b>           |     | RunNo: <b>93146</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b>   | Analysis Date: <b>12/10/2022</b> |     | SeqNo: <b>3357250</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                           | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                               | 5.0 |                                                   |             |                     |          |           |      |          |      |
| Surr: BFB                     | 940                              |     | 1000                                              |             | 93.5                | 37.7     | 212       |      |          |      |

| Sample ID: <b>lcs-71918</b>   | SampType: <b>LCS</b>             |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|----------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>71918</b>           |     | RunNo: <b>93146</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b>   | Analysis Date: <b>12/10/2022</b> |     | SeqNo: <b>3357251</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                           | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24                               | 5.0 | 25.00                                             | 0           | 96.5                | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 1900                             |     | 1000                                              |             | 188                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>2212214-012ams</b> | SampType: <b>MS</b>              |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|----------------------------------|----------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BH22-14 4'</b>     | Batch ID: <b>71918</b>           |     | RunNo: <b>93146</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b>      | Analysis Date: <b>12/10/2022</b> |     | SeqNo: <b>3357253</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                          | Result                           | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 23                               | 4.9 | 24.58                                             | 0           | 93.9                | 70       | 130       |      |          |      |
| Surr: BFB                        | 1900                             |     | 983.3                                             |             | 189                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>2212214-012amsd</b> | SampType: <b>MSD</b>             |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-----------------------------------|----------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BH22-14 4'</b>      | Batch ID: <b>71918</b>           |     | RunNo: <b>93146</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b>       | Analysis Date: <b>12/10/2022</b> |     | SeqNo: <b>3357254</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                           | Result                           | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2212214

15-Dec-22

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>2212214-012amsd</b> | SampType: <b>MSD</b>             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |       |          |      |
|-----------------------------------|----------------------------------|---------------------------------------------------|-----------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: <b>BH22-14 4'</b>      | Batch ID: <b>71918</b>           | RunNo: <b>93146</b>                               |           |             |      |          |           |       |          |      |
| Prep Date: <b>12/7/2022</b>       | Analysis Date: <b>12/10/2022</b> | SeqNo: <b>3357254</b> Units: <b>mg/Kg</b>         |           |             |      |          |           |       |          |      |
| Analyte                           | Result                           | PQL                                               | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 23                               | 4.9                                               | 24.63     | 0           | 93.5 | 70       | 130       | 0.230 | 20       |      |
| Surr: BFB                         | 1800                             |                                                   | 985.2     |             | 186  | 37.7     | 212       | 0     | 0        |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2212214

15-Dec-22

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>mb-71909</b>  | SampType: <b>MBLK</b>           |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>71909</b>          |       | RunNo: <b>93131</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b> | Analysis Date: <b>12/9/2022</b> |       | SeqNo: <b>3354822</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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  | 0.89                            |       | 1.000                                        |             | 89.4                | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-71909</b> | SampType: <b>LCS</b>            |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>71909</b>          |       | RunNo: <b>93131</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b> | Analysis Date: <b>12/9/2022</b> |       | SeqNo: <b>3354823</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.97                            | 0.025 | 1.000                                        | 0           | 96.7                | 80       | 120       |      |          |      |
| Toluene                     | 0.97                            | 0.050 | 1.000                                        | 0           | 97.2                | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.96                            | 0.050 | 1.000                                        | 0           | 95.7                | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.9                             | 0.10  | 3.000                                        | 0           | 95.3                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.93                            |       | 1.000                                        |             | 93.0                | 70       | 130       |      |          |      |

| Sample ID: <b>mb-71918</b>  | SampType: <b>MBLK</b>            |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|----------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>71918</b>           |       | RunNo: <b>93146</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b> | Analysis Date: <b>12/10/2022</b> |       | SeqNo: <b>3357332</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                           | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                               | 0.025 |                                              |             |                     |          |           |      |          |      |
| Toluene                     | ND                               | 0.050 |                                              |             |                     |          |           |      |          |      |
| Ethylbenzene                | ND                               | 0.050 |                                              |             |                     |          |           |      |          |      |
| Xylenes, Total              | ND                               | 0.10  |                                              |             |                     |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.96                             |       | 1.000                                        |             | 96.3                | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-71918</b> | SampType: <b>LCS</b>             |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|----------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>71918</b>           |       | RunNo: <b>93146</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b> | Analysis Date: <b>12/10/2022</b> |       | SeqNo: <b>3357333</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                           | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.86                             | 0.025 | 1.000                                        | 0           | 86.3                | 80       | 120       |      |          |      |
| Toluene                     | 0.87                             | 0.050 | 1.000                                        | 0           | 87.3                | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.87                             | 0.050 | 1.000                                        | 0           | 86.6                | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.6                              | 0.10  | 3.000                                        | 0           | 86.8                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.94                             |       | 1.000                                        |             | 94.3                | 70       | 130       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2212214

15-Dec-22

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>2212214-013ams</b> | SampType: <b>MS</b>              | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|----------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH22-15 0'</b>     | Batch ID: <b>71918</b>           | RunNo: <b>93146</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b>      | Analysis Date: <b>12/10/2022</b> | SeqNo: <b>3357336</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                           | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.97                             | 0.025                                        | 0.9872              | 0           | 98.5 | 68.8     | 120       |      |          |      |
| Toluene                          | 0.99                             | 0.049                                        | 0.9872              | 0           | 100  | 73.6     | 124       |      |          |      |
| Ethylbenzene                     | 0.99                             | 0.049                                        | 0.9872              | 0           | 101  | 72.7     | 129       |      |          |      |
| Xylenes, Total                   | 3.0                              | 0.099                                        | 2.962               | 0.01834     | 99.9 | 75.7     | 126       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.93                             |                                              | 0.9872              |             | 93.9 | 70       | 130       |      |          |      |

| Sample ID: <b>2212214-013amsd</b> | SampType: <b>MSD</b>             | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|----------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH22-15 0'</b>      | Batch ID: <b>71918</b>           | RunNo: <b>93146</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/7/2022</b>       | Analysis Date: <b>12/10/2022</b> | SeqNo: <b>3357337</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                           | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                           | 0.95                             | 0.025                                        | 0.9833              | 0           | 96.2 | 68.8     | 120       | 2.74 | 20       |      |
| Toluene                           | 0.97                             | 0.049                                        | 0.9833              | 0           | 98.5 | 73.6     | 124       | 2.35 | 20       |      |
| Ethylbenzene                      | 0.97                             | 0.049                                        | 0.9833              | 0           | 99.1 | 72.7     | 129       | 1.91 | 20       |      |
| Xylenes, Total                    | 2.9                              | 0.098                                        | 2.950               | 0.01834     | 98.2 | 75.7     | 126       | 2.02 | 20       |      |
| Surr: 4-Bromofluorobenzene        | 0.92                             |                                              | 0.9833              |             | 93.8 | 70       | 130       | 0    | 0        |      |

**Qualifiers:**

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.

Work Order Number: 2212214

RcptNo: 1

Received By: Sean Livingston 12/6/2022 7:30:00 AM

Completed By: Sean Livingston 12/6/2022 8:20:21 AM

Reviewed By: [Signature] 12-6-22

[Signature]

[Signature]

Chain of Custody

1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes [checked] No [ ] NA [ ]

4. Were all samples received at a temperature of >0° C to 6.0° C Yes [checked] No [ ] NA [ ]

5. Sample(s) in proper container(s)? Yes [checked] No [ ]

6. Sufficient sample volume for indicated test(s)? Yes [checked] No [ ]

7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No [ ]

8. Was preservative added to bottles? Yes [ ] No [checked] NA [ ]

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [ ] No [ ] NA [checked]

10. Were any sample containers received broken? Yes [ ] No [checked]

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes [checked] No [ ]

12. Are matrices correctly identified on Chain of Custody? Yes [checked] No [ ]

13. Is it clear what analyses were requested? Yes [checked] No [ ]

14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes [checked] No [ ]

# of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: Jun 12/6/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: Date: By Whom: Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person Regarding: Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1-4.



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

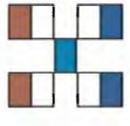
# Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.

Work Order Number: 2212214

RcptNo: 1

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 5         | 0.1     | Good      |             |         |           |           |



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time: 5 Day  
 Standard  Rush

Project Name: North Pure Gold 8 Federal #006, West

Project #: 22E-02816-07

Project Manager: Kent Stallings  
[kstallings@vertex.ca](mailto:kstallings@vertex.ca)

Sampler: L. Pullman  
 On Ice:  Yes  No

# of Coolers: 5  
 Cooler Temp (including CF): See Checklist

| Date     | Time  | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No.    |
|----------|-------|--------|-------------|----------------------|-------------------|-------------|
| 12/03/22 | 08:50 | Soil   | BH22-11 0'  | 1, 4oz jar           |                   | 2212214 001 |
| 12/03/22 | 09:00 | Soil   | BH22-11 2'  | 1, 4oz jar           |                   | 002         |
| 12/03/22 | 09:05 | Soil   | BH22-11 4'  | 1, 4oz jar           |                   | 003         |
| 12/03/22 | 09:10 | Soil   | BH22-12 0'  | 1, 4oz jar           |                   | 004         |
| 12/03/22 | 09:20 | Soil   | BH22-12 2'  | 1, 4oz jar           |                   | 005         |
| 12/03/22 | 09:20 | Soil   | BH22-12 4'  | 1, 4oz jar           |                   | 006         |
| 12/03/22 | 09:25 | Soil   | BH22-13 0'  | 1, 4oz jar           |                   | 007         |
| 12/03/22 | 09:30 | Soil   | BH22-13 2'  | 1, 4oz jar           |                   | 008         |
| 12/03/22 | 09:35 | Soil   | BH22-13 4'  | 1, 4oz jar           |                   | 009         |
| 12/03/22 | 09:40 | Soil   | BH22-14 0'  | 1, 4oz jar           |                   | 010         |
| 12/03/22 | 09:45 | Soil   | BH22-14 2'  | 1, 4oz jar           |                   | 011         |
| 12/03/22 | 09:50 | Soil   | BH22-14 4'  | 1, 4oz jar           |                   | 012         |

Date: 12-5-22 Time: 07:00 Relinquished by: Robert Pullman  
 Date: 12/5/22 Time: 1900 Relinquished by: [Signature]

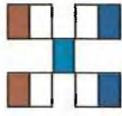
**Analysis Request**

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

Remarks: **Direct bill to Devon, Dale Woodall**  
 cc. [kstallings@vertex.ca](mailto:kstallings@vertex.ca) for Final Report

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 noted on the analytical report.





**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time:  
 Standard  Rush 50am  
 Project Name:  
North Pure Gold 8 Federal #006, West  
 Project #:

22E-02816-07

Project Manager:  
 Kent Stallings  
[kstallings@vertex.ca](mailto:kstallings@vertex.ca)

Sampler: L. Pullman

On Ice:  Yes  No

# of Coolers: 5

Cooler Temp (including CP): See Checklist

| Date     | Time  | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. |
|----------|-------|--------|-------------|----------------------|-------------------|----------|
| 12/03/22 | 11:00 | Soil   | BH22-19 0'  | 1, 4oz jar           |                   | 025      |
| 12/03/22 | 11:05 | Soil   | BH22-19 2'  | 1, 4oz jar           |                   | 024      |
| 12/03/22 | 11:10 | Soil   | BH22-19 4'  | 1, 4oz jar           |                   | 027      |
| 12/03/22 | 11:15 | Soil   | BH22-20 0'  | 1, 4oz jar           |                   | 028      |
| 12/03/22 | 11:15 | Soil   | BH22-20 2'  | 1, 4oz jar           |                   | 029      |
| 12/03/22 | 11:20 | Soil   | BH22-20 4'  | 1, 4oz jar           |                   | 030      |

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

Date: 12-5-22 Time: 07:30 Relinquished by: L. Pullman  
 Date: 12/5/22 Time: 19:00 Relinquished by: See Comm

Received by: See Comm Date: 12/5/22 Time: 7:00  
 Received by: See Comm Date: 12/6/22 Time: 7:30

Remarks:  
 Direct bill to Devon, Dale Woodall  
 cc. [kstallings@vertex.ca](mailto:kstallings@vertex.ca) for Final Report

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 noted on the analytical report.



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Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

March 06, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: North Pure Gold 8 Federal 006 West

OrderNo.: 2302A00

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/23/2023 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2302A00**

Date Reported: 3/6/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH23-21 8'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/21/2023 8:15:00 AM

**Lab ID:** 2302A00-001

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 2/28/2023 3:39:37 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/28/2023 3:39:37 AM  |
| Surr: DNOP                                       | 92.0   | 69-147   |      | %Rec  | 1  | 2/28/2023 3:39:37 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 2/27/2023 9:34:00 PM  |
| Surr: BFB                                        | 104    | 37.7-212 |      | %Rec  | 1  | 2/27/2023 9:34:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/27/2023 9:34:00 PM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 2/27/2023 9:34:00 PM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 2/27/2023 9:34:00 PM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 2/27/2023 9:34:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 95.1   | 70-130   |      | %Rec  | 1  | 2/27/2023 9:34:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/28/2023 12:51:53 PM |

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

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

**Analytical Report**

Lab Order **2302A00**

Date Reported: 3/6/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH23-21 9'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/21/2023 9:25:00 AM

**Lab ID:** 2302A00-002

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.0      |      | mg/Kg | 1  | 2/28/2023 4:11:27 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 2/28/2023 4:11:27 AM  |
| Surr: DNOP                                       | 89.3   | 69-147   |      | %Rec  | 1  | 2/28/2023 4:11:27 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 2/27/2023 10:33:00 PM |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 2/27/2023 10:33:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 2/27/2023 10:33:00 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 2/27/2023 10:33:00 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 2/27/2023 10:33:00 PM |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 2/27/2023 10:33:00 PM |
| Surr: 4-Bromofluorobenzene                       | 93.9   | 70-130   |      | %Rec  | 1  | 2/27/2023 10:33:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/28/2023 1:04:18 PM  |

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

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

**Analytical Report**

Lab Order **2302A00**

Date Reported: 3/6/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH23-22 6'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/21/2023 8:50:00 AM

**Lab ID:** 2302A00-003

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 2/28/2023 4:22:07 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 2/28/2023 4:22:07 AM  |
| Surr: DNOP                                       | 89.2   | 69-147   |      | %Rec  | 1  | 2/28/2023 4:22:07 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 2/27/2023 11:32:00 PM |
| Surr: BFB                                        | 105    | 37.7-212 |      | %Rec  | 1  | 2/27/2023 11:32:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/27/2023 11:32:00 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 2/27/2023 11:32:00 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 2/27/2023 11:32:00 PM |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 2/27/2023 11:32:00 PM |
| Surr: 4-Bromofluorobenzene                       | 95.9   | 70-130   |      | %Rec  | 1  | 2/27/2023 11:32:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/28/2023 1:16:42 PM  |

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

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

**Analytical Report**

Lab Order **2302A00**

Date Reported: 3/6/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH23-22 8'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/21/2023 9:00:00 AM

**Lab ID:** 2302A00-004

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 2/28/2023 4:32:46 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/28/2023 4:32:46 AM  |
| Surr: DNOP                                       | 87.0   | 69-147   |      | %Rec  | 1  | 2/28/2023 4:32:46 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/27/2023 11:52:00 PM |
| Surr: BFB                                        | 100    | 37.7-212 |      | %Rec  | 1  | 2/27/2023 11:52:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/27/2023 11:52:00 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/27/2023 11:52:00 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/27/2023 11:52:00 PM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 2/27/2023 11:52:00 PM |
| Surr: 4-Bromofluorobenzene                       | 94.1   | 70-130   |      | %Rec  | 1  | 2/27/2023 11:52:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/28/2023 1:29:07 PM  |

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

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

**Analytical Report**

Lab Order **2302A00**

Date Reported: 3/6/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH23-23 4'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/21/2023 9:30:00 AM

**Lab ID:** 2302A00-005

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.6      |      | mg/Kg | 1  | 2/28/2023 4:43:26 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 43       |      | mg/Kg | 1  | 2/28/2023 4:43:26 AM  |
| Surr: DNOP                                       | 83.8   | 69-147   |      | %Rec  | 1  | 2/28/2023 4:43:26 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 2/28/2023 12:12:00 AM |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 12:12:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 2/28/2023 12:12:00 AM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 2/28/2023 12:12:00 AM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 2/28/2023 12:12:00 AM |
| Xylenes, Total                                   | ND     | 0.092    |      | mg/Kg | 1  | 2/28/2023 12:12:00 AM |
| Surr: 4-Bromofluorobenzene                       | 95.5   | 70-130   |      | %Rec  | 1  | 2/28/2023 12:12:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/28/2023 1:41:31 PM  |

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

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

**Analytical Report**

Lab Order **2302A00**

Date Reported: 3/6/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BH23-23 6'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/21/2023 9:40:00 AM

**Lab ID:** 2302A00-006

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.3      |      | mg/Kg | 1  | 2/28/2023 4:54:06 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/28/2023 4:54:06 AM  |
| Surr: DNOP                                       | 91.5   | 69-147   |      | %Rec  | 1  | 2/28/2023 4:54:06 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/28/2023 12:31:00 AM |
| Surr: BFB                                        | 98.2   | 37.7-212 |      | %Rec  | 1  | 2/28/2023 12:31:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/28/2023 12:31:00 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/28/2023 12:31:00 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/28/2023 12:31:00 AM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 2/28/2023 12:31:00 AM |
| Surr: 4-Bromofluorobenzene                       | 91.8   | 70-130   |      | %Rec  | 1  | 2/28/2023 12:31:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/28/2023 1:53:57 PM  |

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A00

06-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>LCS-73413</b> | SampType: <b>lcs</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73413</b>          | RunNo: <b>94937</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/28/2023</b> | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3432174</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 93.0 | 90       | 110       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A00

06-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>LCS-73381</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73381</b>          | RunNo: <b>94894</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3430275</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 42                              | 10                                                         | 50.00               | 0           | 84.7 | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 4.7                             |                                                            | 5.000               |             | 93.1 | 69       | 147       |      |          |      |

| Sample ID: <b>MB-73381</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>73381</b>          | RunNo: <b>94894</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>    | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3430281</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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                     | 9.2                             |                                                            | 10.00               |             | 91.7 | 69       | 147       |      |          |      |

| Sample ID: <b>2302A00-001AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH23-21 8'</b>     | Batch ID: <b>73381</b>          | RunNo: <b>94894</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>      | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3431166</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 38                              | 9.0                                                        | 45.13               | 0           | 84.0 | 54.2     | 135       |      |          |      |
| Surr: DNOP                       | 3.9                             |                                                            | 4.513               |             | 87.2 | 69       | 147       |      |          |      |

| Sample ID: <b>2302A00-001AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH23-21 8'</b>      | Batch ID: <b>73381</b>          | RunNo: <b>94894</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>       | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3431167</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 42                              | 9.8                                                        | 49.16               | 0           | 85.1 | 54.2     | 135       | 9.93 | 29.2     |      |
| Surr: DNOP                        | 4.4                             |                                                            | 4.916               |             | 89.2 | 69       | 147       | 0    | 0        |      |

| Sample ID: <b>MB-73474</b> | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|----------------------------|--------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>      | Batch ID: <b>73474</b>         | RunNo: <b>94965</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>3/2/2023</b> | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3434009</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                    | Result                         | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                 | 8.4                            |                                                            | 10.00              |             | 84.0 | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-73474</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73474</b>         | RunNo: <b>94965</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>3/2/2023</b>  | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3434010</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                         | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A00

06-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>LCS-73474</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73474</b>         | RunNo: <b>94965</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>3/2/2023</b>  | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3434010</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                         | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 4.5                            |                                                            | 5.000              |             | 90.1 | 69       | 147       |      |          |      |

| Sample ID: <b>MB-73456</b> | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|----------------------------|--------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>      | Batch ID: <b>73456</b>         | RunNo: <b>94965</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>3/1/2023</b> | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3434451</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                    | Result                         | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                 | 11                             |                                                            | 10.00              |             | 113  | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-73456</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73456</b>         | RunNo: <b>94965</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>3/1/2023</b>  | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3434452</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                         | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 5.0                            |                                                            | 5.000              |             | 100  | 69       | 147       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A00

06-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>ics-73354</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>73354</b>          | RunNo: <b>94903</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b>   | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3430672</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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  | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 2200                            |                                                   | 1000                |             | 222  | 37.7     | 212       |      |          | S    |

| Sample ID: <b>mb-73354</b>    | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>73354</b>          | RunNo: <b>94903</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b>   | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3430673</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0                                               |                     |             |      |          |           |      |          |      |
| Surr: BFB                     | 1100                            |                                                   | 1000                |             | 106  | 37.7     | 212       |      |          |      |

| Sample ID: <b>2302A00-001ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH23-21 8'</b>     | Batch ID: <b>73354</b>          | RunNo: <b>94903</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b>      | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3430689</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 20                              | 4.7                                               | 23.67               | 0           | 85.5 | 70       | 130       |      |          |      |
| Surr: BFB                        | 2000                            |                                                   | 947.0               |             | 207  | 37.7     | 212       |      |          |      |

| Sample ID: <b>2302A00-001amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH23-21 8'</b>      | Batch ID: <b>73354</b>          | RunNo: <b>94903</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b>       | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3430690</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 23                              | 4.7                                               | 23.67               | 0           | 95.4 | 70       | 130       | 11.0 | 20       |      |
| Surr: BFB                         | 2100                            |                                                   | 947.0               |             | 227  | 37.7     | 212       | 0    | 0        | S    |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A00

06-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>ics-73354</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73354</b>          | RunNo: <b>94903</b>                          |           |             |                     |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b> | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3430697</b>                        |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.96                            | 0.025                                        | 1.000     | 0           | 95.8                | 80       | 120       |      |          |      |
| Toluene                     | 0.96                            | 0.050                                        | 1.000     | 0           | 95.8                | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.97                            | 0.050                                        | 1.000     | 0           | 96.9                | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.9                             | 0.10                                         | 3.000     | 0           | 96.5                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.97                            |                                              | 1.000     |             | 96.8                | 70       | 130       |      |          |      |

| Sample ID: <b>mb-73354</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>73354</b>          | RunNo: <b>94903</b>                          |           |             |                     |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b> | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3430698</b>                        |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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     |             | 100                 | 70       | 130       |      |          |      |

| Sample ID: <b>2302A00-002ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |                     |          |           |      |          |      |
|----------------------------------|---------------------------------|----------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BH23-21 9'</b>     | Batch ID: <b>73354</b>          | RunNo: <b>94903</b>                          |           |             |                     |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b>      | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3430717</b>                        |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                          | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.92                            | 0.023                                        | 0.9398    | 0           | 97.8                | 68.8     | 120       |      |          |      |
| Toluene                          | 0.91                            | 0.047                                        | 0.9398    | 0           | 96.9                | 73.6     | 124       |      |          |      |
| Ethylbenzene                     | 0.94                            | 0.047                                        | 0.9398    | 0           | 99.6                | 72.7     | 129       |      |          |      |
| Xylenes, Total                   | 2.8                             | 0.094                                        | 2.820     | 0           | 98.9                | 75.7     | 126       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.88                            |                                              | 0.9398    |             | 93.3                | 70       | 130       |      |          |      |

| Sample ID: <b>2302A00-002amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |                     |          |           |      |          |      |
|-----------------------------------|---------------------------------|----------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BH23-21 9'</b>      | Batch ID: <b>73354</b>          | RunNo: <b>94903</b>                          |           |             |                     |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b>       | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3430718</b>                        |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                          | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                           | 0.89                            | 0.023                                        | 0.9381    | 0           | 94.6                | 68.8     | 120       | 3.45 | 20       |      |
| Toluene                           | 0.88                            | 0.047                                        | 0.9381    | 0           | 93.7                | 73.6     | 124       | 3.54 | 20       |      |
| Ethylbenzene                      | 0.89                            | 0.047                                        | 0.9381    | 0           | 95.2                | 72.7     | 129       | 4.77 | 20       |      |
| Xylenes, Total                    | 2.7                             | 0.094                                        | 2.814     | 0           | 95.5                | 75.7     | 126       | 3.69 | 20       |      |
| Surr: 4-Bromofluorobenzene        | 0.90                            |                                              | 0.9381    |             | 95.9                | 70       | 130       | 0    | 0        |      |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
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- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2302A00 RcptNo: 1

Received By: Tracy Casarrubias 2/23/2023 7:30:00 AM

Completed By: Sean Livingston 2/23/2023 7:54:17 AM

Reviewed By: KPA 2.23.23

Handwritten signature

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: [signature] 2/23/23

Special Handling (if applicable)

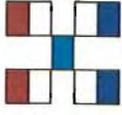
- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: [ ] Date: [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 5.3, Good, Not Present, Morty, ,



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time: Standard  Rush 5 Day

Project Name: North Pure Gold 8 Federal #006, West

Project #: 22E-02816-07

Client: Vertex  
(direct bill to Devon)

Mailing Address: \_\_\_\_\_

Phone #: \_\_\_\_\_

email or Fax#: \_\_\_\_\_

QA/QC Package:  Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance  NELAC  Other

EDD (Type) \_\_\_\_\_

Project Manager: Kent Stallings  
kstallings@vertex.ca

Sampler: L. Pullman

On Ice:  Yes  No noisy

# of Coolers: 1

Cooler Temp (including CF): 5.4-0.1-5.3

| Date     | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. |
|----------|------|--------|-------------|----------------------|-------------------|----------|
| 02/21/23 | 8:15 | Soil   | BH22-21 8'  | 1, 4oz jar           |                   | 001      |
| 02/21/23 | 8:25 | Soil   | BH22-21 9'  | 1, 4oz jar           |                   | 002      |
| 02/21/23 | 8:50 | Soil   | BH22-22 6'  | 1, 4oz jar           |                   | 003      |
| 02/21/23 | 9:00 | Soil   | BH22-22 8'  | 1, 4oz jar           |                   | 004      |
| 02/21/23 | 9:30 | Soil   | BH22-23 4'  | 1, 4oz jar           |                   | 005      |
| 02/21/23 | 9:40 | Soil   | BH22-23 6'  | 1, 4oz jar           |                   | 004      |

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

Received by: [Signature] Date: 2/23/23 Time: 7:30

Relinquished by: [Signature] Date: 2/23/23 Time: 7:30

Remarks: Direct bill to Devon, Dale Woodall  
cc. kstallings@vertex.ca for Final Report

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](http://clients.hallenvironmental.com)

February 17, 2021

Monica Peppin

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (505) 350-1336

FAX

RE: North Pure Gold 8 Fed 6

OrderNo.: 2102438

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 12 sample(s) on 2/9/2021 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2102438**

Date Reported: **2/17/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS21-01 4.5'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/5/2021 11:00:00 AM

**Lab ID:** 2102438-001

**Matrix:** SOIL

**Received Date:** 2/9/2021 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>mb</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 2/10/2021 11:29:07 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 2/10/2021 11:29:07 PM |
| Surr: DNOP                                       | 115    | 70-130   |      | %Rec  | 1  | 2/10/2021 11:29:07 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/15/2021 5:46:00 PM  |
| Surr: BFB                                        | 87.5   | 75.3-105 |      | %Rec  | 1  | 2/15/2021 5:46:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/15/2021 5:46:00 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/15/2021 5:46:00 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/15/2021 5:46:00 PM  |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 2/15/2021 5:46:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 87.1   | 80-120   |      | %Rec  | 1  | 2/15/2021 5:46:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | 67     | 60       |      | mg/Kg | 20 | 2/12/2021 10:51:34 PM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2102438**

Date Reported: **2/17/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS21-04 2'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/5/2021 11:05:00 AM

**Lab ID:** 2102438-002

**Matrix:** SOIL

**Received Date:** 2/9/2021 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>mb</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.1      |      | mg/Kg | 1  | 2/10/2021 11:38:42 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/10/2021 11:38:42 PM |
| Surr: DNOP                                       | 158    | 70-130   | S    | %Rec  | 1  | 2/10/2021 11:38:42 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/15/2021 6:09:00 PM  |
| Surr: BFB                                        | 85.8   | 75.3-105 |      | %Rec  | 1  | 2/15/2021 6:09:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/15/2021 6:09:00 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/15/2021 6:09:00 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/15/2021 6:09:00 PM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 2/15/2021 6:09:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 83.5   | 80-120   |      | %Rec  | 1  | 2/15/2021 6:09:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | 380    | 60       |      | mg/Kg | 20 | 2/12/2021 11:03:59 PM |

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

**Qualifiers:**

- |                                                         |                                                   |
|---------------------------------------------------------|---------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2102438**

Date Reported: **2/17/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS21-05 2.5'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/5/2021 11:10:00 AM

**Lab ID:** 2102438-003

**Matrix:** SOIL

**Received Date:** 2/9/2021 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>mb</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.1      |      | mg/Kg | 1  | 2/10/2021 11:48:18 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/10/2021 11:48:18 PM |
| Surr: DNOP                                       | 168    | 70-130   | S    | %Rec  | 1  | 2/10/2021 11:48:18 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/15/2021 6:33:00 PM  |
| Surr: BFB                                        | 89.5   | 75.3-105 |      | %Rec  | 1  | 2/15/2021 6:33:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/15/2021 6:33:00 PM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/15/2021 6:33:00 PM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/15/2021 6:33:00 PM  |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 2/15/2021 6:33:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 86.8   | 80-120   |      | %Rec  | 1  | 2/15/2021 6:33:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | 200    | 60       |      | mg/Kg | 20 | 2/12/2021 11:16:23 PM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2102438**

Date Reported: **2/17/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS21-06 3'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/5/2021 11:15:00 AM

**Lab ID:** 2102438-004

**Matrix:** SOIL

**Received Date:** 2/9/2021 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>mb</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 2/10/2021 11:57:57 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 2/10/2021 11:57:57 PM |
| Surr: DNOP                                       | 145    | 70-130   | S    | %Rec  | 1  | 2/10/2021 11:57:57 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/15/2021 6:57:00 PM  |
| Surr: BFB                                        | 89.3   | 75.3-105 |      | %Rec  | 1  | 2/15/2021 6:57:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/15/2021 6:57:00 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/15/2021 6:57:00 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/15/2021 6:57:00 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 2/15/2021 6:57:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 87.4   | 80-120   |      | %Rec  | 1  | 2/15/2021 6:57:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | 190    | 59       |      | mg/Kg | 20 | 2/12/2021 11:28:48 PM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2102438**

Date Reported: **2/17/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BS21-07 2.5'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/5/2021 11:20:00 AM

**Lab ID:** 2102438-005

**Matrix:** SOIL

**Received Date:** 2/9/2021 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>mb</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 2/11/2021 12:07:44 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 2/11/2021 12:07:44 AM |
| Surr: DNOP                                       | 131    | 70-130   | S    | %Rec  | 1  | 2/11/2021 12:07:44 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/15/2021 7:20:00 PM  |
| Surr: BFB                                        | 86.0   | 75.3-105 |      | %Rec  | 1  | 2/15/2021 7:20:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/15/2021 7:20:00 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/15/2021 7:20:00 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/15/2021 7:20:00 PM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 2/15/2021 7:20:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 85.0   | 80-120   |      | %Rec  | 1  | 2/15/2021 7:20:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | 190    | 60       |      | mg/Kg | 20 | 2/12/2021 11:29:03 AM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2102438**

Date Reported: **2/17/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS21-01 0-4.5'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/5/2021 11:40:00 AM

**Lab ID:** 2102438-006

**Matrix:** SOIL

**Received Date:** 2/9/2021 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>mb</b>    |
| Diesel Range Organics (DRO)                      | ND     | 8.7      |      | mg/Kg | 1  | 2/11/2021 12:17:30 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 43       |      | mg/Kg | 1  | 2/11/2021 12:17:30 AM |
| Surr: DNOP                                       | 145    | 70-130   | S    | %Rec  | 1  | 2/11/2021 12:17:30 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/15/2021 7:43:00 PM  |
| Surr: BFB                                        | 86.6   | 75.3-105 |      | %Rec  | 1  | 2/15/2021 7:43:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/15/2021 7:43:00 PM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/15/2021 7:43:00 PM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/15/2021 7:43:00 PM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/15/2021 7:43:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 83.5   | 80-120   |      | %Rec  | 1  | 2/15/2021 7:43:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/12/2021 12:06:16 PM |

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

**Qualifiers:**

- |     |                                                       |    |                                                 |
|-----|-------------------------------------------------------|----|-------------------------------------------------|
| *   | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
| D   | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
| H   | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
| ND  | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
| PQL | Practical Quantitative Limit                          | RL | Reporting Limit                                 |
| S   | % Recovery outside of range due to dilution or matrix |    |                                                 |

**Analytical Report**

Lab Order **2102438**

Date Reported: **2/17/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS21-02 0-3'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/5/2021 11:45:00 AM

**Lab ID:** 2102438-007

**Matrix:** SOIL

**Received Date:** 2/9/2021 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>mb</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.1      |      | mg/Kg | 1  | 2/11/2021 12:27:15 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 2/11/2021 12:27:15 AM |
| Surr: DNOP                                       | 148    | 70-130   | S    | %Rec  | 1  | 2/11/2021 12:27:15 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/15/2021 8:07:00 PM  |
| Surr: BFB                                        | 88.4   | 75.3-105 |      | %Rec  | 1  | 2/15/2021 8:07:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/15/2021 8:07:00 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/15/2021 8:07:00 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/15/2021 8:07:00 PM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 2/15/2021 8:07:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 85.9   | 80-120   |      | %Rec  | 1  | 2/15/2021 8:07:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | 230    | 60       |      | mg/Kg | 20 | 2/12/2021 12:18:41 PM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2102438**

Date Reported: **2/17/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS21-03 0-3'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/5/2021 11:50:00 AM

**Lab ID:** 2102438-008

**Matrix:** SOIL

**Received Date:** 2/9/2021 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>mb</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 2/11/2021 12:36:58 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/11/2021 12:36:58 AM |
| Surr: DNOP                                       | 125    | 70-130   |      | %Rec  | 1  | 2/11/2021 12:36:58 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/15/2021 9:17:00 PM  |
| Surr: BFB                                        | 87.2   | 75.3-105 |      | %Rec  | 1  | 2/15/2021 9:17:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/15/2021 9:17:00 PM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/15/2021 9:17:00 PM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/15/2021 9:17:00 PM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/15/2021 9:17:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 85.0   | 80-120   |      | %Rec  | 1  | 2/15/2021 9:17:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | 99     | 60       |      | mg/Kg | 20 | 2/12/2021 12:31:06 PM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2102438**

Date Reported: **2/17/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS21-05 0-2'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/5/2021 11:55:00 AM

**Lab ID:** 2102438-009

**Matrix:** SOIL

**Received Date:** 2/9/2021 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>mb</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 2/11/2021 12:46:39 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 2/11/2021 12:46:39 AM |
| Surr: DNOP                                       | 136    | 70-130   | S    | %Rec  | 1  | 2/11/2021 12:46:39 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/15/2021 9:41:00 PM  |
| Surr: BFB                                        | 87.0   | 75.3-105 |      | %Rec  | 1  | 2/15/2021 9:41:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/15/2021 9:41:00 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/15/2021 9:41:00 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/15/2021 9:41:00 PM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/15/2021 9:41:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 85.2   | 80-120   |      | %Rec  | 1  | 2/15/2021 9:41:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | 94     | 60       |      | mg/Kg | 20 | 2/12/2021 12:43:30 PM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2102438**

Date Reported: **2/17/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS21-06 0-2.5'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/5/2021 12:00:00 PM

**Lab ID:** 2102438-010

**Matrix:** SOIL

**Received Date:** 2/9/2021 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>mb</b>    |
| Diesel Range Organics (DRO)                      | ND     | 8.9      |      | mg/Kg | 1  | 2/11/2021 12:56:18 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 2/11/2021 12:56:18 AM |
| Surr: DNOP                                       | 147    | 70-130   | S    | %Rec  | 1  | 2/11/2021 12:56:18 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/15/2021 10:04:00 PM |
| Surr: BFB                                        | 88.2   | 75.3-105 |      | %Rec  | 1  | 2/15/2021 10:04:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/15/2021 10:04:00 PM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/15/2021 10:04:00 PM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/15/2021 10:04:00 PM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 2/15/2021 10:04:00 PM |
| Surr: 4-Bromofluorobenzene                       | 86.2   | 80-120   |      | %Rec  | 1  | 2/15/2021 10:04:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | 200    | 60       |      | mg/Kg | 20 | 2/12/2021 12:55:54 PM |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2102438**

Date Reported: **2/17/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS21-07 0-3'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/5/2021 12:05:00 PM

**Lab ID:** 2102438-011

**Matrix:** SOIL

**Received Date:** 2/9/2021 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                       |
| Analyst: <b>mb</b>                               |        |          |      |       |    |                       |
| Diesel Range Organics (DRO)                      | ND     | 9.1      |      | mg/Kg | 1  | 2/11/2021 1:05:57 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 2/11/2021 1:05:57 AM  |
| Surr: DNOP                                       | 139    | 70-130   | S    | %Rec  | 1  | 2/11/2021 1:05:57 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    |                       |
| Analyst: <b>CCM</b>                              |        |          |      |       |    |                       |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/15/2021 10:28:00 PM |
| Surr: BFB                                        | 88.0   | 75.3-105 |      | %Rec  | 1  | 2/15/2021 10:28:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    |                       |
| Analyst: <b>CCM</b>                              |        |          |      |       |    |                       |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/15/2021 10:28:00 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/15/2021 10:28:00 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/15/2021 10:28:00 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/15/2021 10:28:00 PM |
| Surr: 4-Bromofluorobenzene                       | 84.6   | 80-120   |      | %Rec  | 1  | 2/15/2021 10:28:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    |                       |
| Analyst: <b>VP</b>                               |        |          |      |       |    |                       |
| Chloride                                         | 150    | 60       |      | mg/Kg | 20 | 2/12/2021 1:08:19 PM  |

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

**Qualifiers:**

- |                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>* Value exceeds Maximum Contaminant Level.</li> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quantitative Limit</li> <li>S % Recovery outside of range due to dilution or matrix</li> </ul> | <ul style="list-style-type: none"> <li>B Analyte detected in the associated Method Blank</li> <li>E Value above quantitation range</li> <li>J Analyte detected below quantitation limits</li> <li>P Sample pH Not In Range</li> <li>RL Reporting Limit</li> </ul> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Analytical Report**

Lab Order **2102438**

Date Reported: **2/17/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS21-08 0-3'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/5/2021 12:10:00 PM

**Lab ID:** 2102438-012

**Matrix:** SOIL

**Received Date:** 2/9/2021 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>mb</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 2/11/2021 1:15:34 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 2/11/2021 1:15:34 AM  |
| Surr: DNOP                                       | 142    | 70-130   | S    | %Rec  | 1  | 2/11/2021 1:15:34 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/15/2021 10:51:00 PM |
| Surr: BFB                                        | 88.1   | 75.3-105 |      | %Rec  | 1  | 2/15/2021 10:51:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/15/2021 10:51:00 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/15/2021 10:51:00 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/15/2021 10:51:00 PM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 2/15/2021 10:51:00 PM |
| Surr: 4-Bromofluorobenzene                       | 86.4   | 80-120   |      | %Rec  | 1  | 2/15/2021 10:51:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | 210    | 60       |      | mg/Kg | 20 | 2/12/2021 1:20:44 PM  |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102438

17-Feb-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>MB-58082</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>58082</b>          | RunNo: <b>75256</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/12/2021</b> | Analysis Date: <b>2/12/2021</b> | SeqNo: <b>2658946</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-58082</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>58082</b>          | RunNo: <b>75256</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/12/2021</b> | Analysis Date: <b>2/12/2021</b> | SeqNo: <b>2658948</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 15                              | 1.5                                       | 15.00               | 0           | 97.6 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-58073</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>58073</b>          | RunNo: <b>75256</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/11/2021</b> | Analysis Date: <b>2/12/2021</b> | SeqNo: <b>2658987</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-58073</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>58073</b>          | RunNo: <b>75256</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/11/2021</b> | Analysis Date: <b>2/12/2021</b> | SeqNo: <b>2658988</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 15                              | 1.5                                       | 15.00               | 0           | 97.3 | 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



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

February 17, 2021

Monica Peppin

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (505) 350-1336

FAX

RE: North Pure Gold 8 Fed 6

OrderNo.: 2102440

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 3 sample(s) on 2/9/2021 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2102440**

Date Reported: 2/17/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** SS21-02 5.5'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/5/2021 2:50:00 PM

**Lab ID:** 2102440-001

**Matrix:** SOIL

**Received Date:** 2/9/2021 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>mb</b>    |
| Diesel Range Organics (DRO)                      | 17     | 9.6      |      | mg/Kg | 1   | 2/11/2021 1:25:10 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1   | 2/11/2021 1:25:10 AM  |
| Surr: DNOP                                       | 121    | 70-130   |      | %Rec  | 1   | 2/11/2021 1:25:10 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1   | 2/15/2021 11:14:00 PM |
| Surr: BFB                                        | 86.1   | 75.3-105 |      | %Rec  | 1   | 2/15/2021 11:14:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1   | 2/15/2021 11:14:00 PM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1   | 2/15/2021 11:14:00 PM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1   | 2/15/2021 11:14:00 PM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1   | 2/15/2021 11:14:00 PM |
| Surr: 4-Bromofluorobenzene                       | 84.6   | 80-120   |      | %Rec  | 1   | 2/15/2021 11:14:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>VP</b>    |
| Chloride                                         | 8200   | 300      |      | mg/Kg | 100 | 2/14/2021 7:20:20 PM  |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2102440**

Date Reported: **2/17/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** SS21-03 4'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/5/2021 2:55:00 PM

**Lab ID:** 2102440-002

**Matrix:** SOIL

**Received Date:** 2/9/2021 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | 770    | 42       |      | mg/Kg | 5  | 2/11/2021 4:09:56 PM  |
| Motor Oil Range Organics (MRO)                   | 460    | 210      |      | mg/Kg | 5  | 2/11/2021 4:09:56 PM  |
| Surr: DNOP                                       | 113    | 70-130   |      | %Rec  | 5  | 2/11/2021 4:09:56 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 24       |      | mg/Kg | 5  | 2/15/2021 11:38:00 PM |
| Surr: BFB                                        | 104    | 75.3-105 |      | %Rec  | 5  | 2/15/2021 11:38:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.12     |      | mg/Kg | 5  | 2/15/2021 11:38:00 PM |
| Toluene                                          | ND     | 0.24     |      | mg/Kg | 5  | 2/15/2021 11:38:00 PM |
| Ethylbenzene                                     | ND     | 0.24     |      | mg/Kg | 5  | 2/15/2021 11:38:00 PM |
| Xylenes, Total                                   | ND     | 0.49     |      | mg/Kg | 5  | 2/15/2021 11:38:00 PM |
| Surr: 4-Bromofluorobenzene                       | 90.3   | 80-120   |      | %Rec  | 5  | 2/15/2021 11:38:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | 2300   | 60       |      | mg/Kg | 20 | 2/12/2021 1:45:33 PM  |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

**Analytical Report**

Lab Order **2102440**

Date Reported: **2/17/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** WS21-04 0-3'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/5/2021 3:10:00 PM

**Lab ID:** 2102440-003

**Matrix:** SOIL

**Received Date:** 2/9/2021 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>mb</b>    |
| Diesel Range Organics (DRO)                      | 110    | 9.8      |      | mg/Kg | 1  | 2/10/2021 9:05:29 PM  |
| Motor Oil Range Organics (MRO)                   | 110    | 49       |      | mg/Kg | 1  | 2/10/2021 9:05:29 PM  |
| Surr: DNOP                                       | 114    | 70-130   |      | %Rec  | 1  | 2/10/2021 9:05:29 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/16/2021 12:01:00 AM |
| Surr: BFB                                        | 88.4   | 75.3-105 |      | %Rec  | 1  | 2/16/2021 12:01:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/16/2021 12:01:00 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/16/2021 12:01:00 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/16/2021 12:01:00 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 2/16/2021 12:01:00 AM |
| Surr: 4-Bromofluorobenzene                       | 85.0   | 80-120   |      | %Rec  | 1  | 2/16/2021 12:01:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | 350    | 60       |      | mg/Kg | 20 | 2/12/2021 1:57:57 PM  |

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

**Qualifiers:**

- |                                                         |                                                   |
|---------------------------------------------------------|---------------------------------------------------|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix |                                                   |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102440

17-Feb-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>MB-58082</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>58082</b>          | RunNo: <b>75256</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/12/2021</b> | Analysis Date: <b>2/12/2021</b> | SeqNo: <b>2658946</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-58082</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>58082</b>          | RunNo: <b>75256</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/12/2021</b> | Analysis Date: <b>2/12/2021</b> | SeqNo: <b>2658948</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 15                              | 1.5                                       | 15.00               | 0           | 97.6 | 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2102440

17-Feb-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>MB-58022</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>58022</b>          | RunNo: <b>75192</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>2/10/2021</b> | Analysis Date: <b>2/10/2021</b> | SeqNo: <b>2654980</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 9.6                             |                                                            | 10.00              |             | 95.9 | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-58022</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>58022</b>          | RunNo: <b>75192</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>2/10/2021</b> | Analysis Date: <b>2/10/2021</b> | SeqNo: <b>2654982</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 4.7                             |                                                            | 5.000              |             | 94.6 | 70       | 130       |      |          |      |

| Sample ID: <b>MB-58012</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>58012</b>          | RunNo: <b>75192</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/9/2021</b>     | Analysis Date: <b>2/10/2021</b> | SeqNo: <b>2655611</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                        | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND                              | 10                                                         |                     |             |      |          |           |      |          |      |
| Motor Oil Range Organics (MRO) | ND                              | 50                                                         |                     |             |      |          |           |      |          |      |
| Surr: DNOP                     | 13                              |                                                            | 10.00               |             | 131  | 70       | 130       |      |          | S    |

| Sample ID: <b>LCS-58012</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>58012</b>          | RunNo: <b>75192</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/9/2021</b>  | Analysis Date: <b>2/10/2021</b> | SeqNo: <b>2655613</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 68                              | 10                                                         | 50.00               | 0           | 135  | 68.9     | 141       |      |          |      |
| Surr: DNOP                  | 6.8                             |                                                            | 5.000               |             | 135  | 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 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102440

17-Feb-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>LCS-58010</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>58010</b>          | RunNo: <b>75299</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/9/2021</b>    | Analysis Date: <b>2/15/2021</b> | SeqNo: <b>2661377</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 25                              | 5.0                                               | 25.00               | 0           | 99.2 | 80       | 120       |      |          |      |
| Surr: BFB                     | 990                             |                                                   | 1000                |             | 98.7 | 75.3     | 105       |      |          |      |

| Sample ID: <b>MB-58010</b>    | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>58010</b>          | RunNo: <b>75299</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/9/2021</b>    | Analysis Date: <b>2/15/2021</b> | SeqNo: <b>2661378</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0                                               |                     |             |      |          |           |      |          |      |
| Surr: BFB                     | 890                             |                                                   | 1000                |             | 88.6 | 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 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102440

17-Feb-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>LCS-58010</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>58010</b>          | RunNo: <b>75299</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/9/2021</b>  | Analysis Date: <b>2/15/2021</b> | SeqNo: <b>2661404</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.89                            | 0.025                                        | 1.000               | 0           | 88.5 | 80       | 120       |      |          |      |
| Toluene                     | 0.87                            | 0.050                                        | 1.000               | 0           | 87.4 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.86                            | 0.050                                        | 1.000               | 0           | 86.5 | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.6                             | 0.10                                         | 3.000               | 0           | 86.9 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.86                            |                                              | 1.000               |             | 86.4 | 80       | 120       |      |          |      |

| Sample ID: <b>MB-58010</b> | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>      | Batch ID: <b>58010</b>          | RunNo: <b>75299</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/9/2021</b> | Analysis Date: <b>2/15/2021</b> | SeqNo: <b>2661405</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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 | 0.87                            |                                              | 1.000               |             | 86.8 | 80       | 120       |      |          |      |

**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
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- 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



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: Devon Energy

Work Order Number: 2102440

RcptNo: 1

Received By: Desiree Dominguez 2/9/2021 7:55:00 AM

Completed By: Sean Livingston 2/9/2021 9:41:11 AM

Reviewed By: ENM 2/9/21

*Handwritten initials/signatures: ID2, Sean Livingston*

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present

2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes  No  NA

4. Were all samples received at a temperature of >0° C to 6.0° C Yes  No  NA

5. Sample(s) in proper container(s)? Yes  No

6. Sufficient sample volume for indicated test(s)? Yes  No

7. Are samples (except VOA and ONG) properly preserved? Yes  No

8. Was preservative added to bottles? Yes  No  NA

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA

10. Were any sample containers received broken? Yes  No

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes  No

12. Are matrices correctly identified on Chain of Custody? Yes  No

13. Is it clear what analyses were requested? Yes  No

14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes  No

# of preserved bottles checked for pH: 10  
2/9/21  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

### Special Handling (if applicable)

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

|                      |       |       |                                                                                                                               |
|----------------------|-------|-------|-------------------------------------------------------------------------------------------------------------------------------|
| Person Notified:     | _____ | Date: | _____                                                                                                                         |
| By Whom:             | _____ | Via:  | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding:           | _____ |       |                                                                                                                               |
| Client Instructions: | _____ |       |                                                                                                                               |

16. Additional remarks:

### 17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 3.5     | Good      |             |         |           |           |





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

February 17, 2021

Monica Peppin

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (505) 350-1336

FAX

RE: North Pure Gold 8 Fed 6

OrderNo.: 2102441

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/9/2021 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2102441**

Date Reported: **2/17/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Devon Energy

**Client Sample ID:** BH21-01 8'

**Project:** North Pure Gold 8 Fed 6

**Collection Date:** 2/5/2021 2:40:00 PM

**Lab ID:** 2102441-001

**Matrix:** SOIL

**Received Date:** 2/9/2021 7:55:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>mb</b>    |
| Diesel Range Organics (DRO)                      | 150    | 9.1      |      | mg/Kg | 1  | 2/10/2021 3:03:14 PM  |
| Motor Oil Range Organics (MRO)                   | 160    | 45       |      | mg/Kg | 1  | 2/10/2021 3:03:14 PM  |
| Surr: DNOP                                       | 119    | 70-130   |      | %Rec  | 1  | 2/10/2021 3:03:14 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/16/2021 12:25:00 AM |
| Surr: BFB                                        | 85.8   | 75.3-105 |      | %Rec  | 1  | 2/16/2021 12:25:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/16/2021 12:25:00 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/16/2021 12:25:00 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/16/2021 12:25:00 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/16/2021 12:25:00 AM |
| Surr: 4-Bromofluorobenzene                       | 82.8   | 80-120   |      | %Rec  | 1  | 2/16/2021 12:25:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | 800    | 60       |      | mg/Kg | 20 | 2/12/2021 3:00:00 PM  |

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

|                    |                                                         |                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
|                    | PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
|                    | S % Recovery outside of range due to dilution or matrix |                                                   |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102441

17-Feb-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>MB-58082</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>58082</b>          | RunNo: <b>75256</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/12/2021</b> | Analysis Date: <b>2/12/2021</b> | SeqNo: <b>2658946</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-58082</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>58082</b>          | RunNo: <b>75256</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/12/2021</b> | Analysis Date: <b>2/12/2021</b> | SeqNo: <b>2658948</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 15                              | 1.5                                       | 15.00               | 0           | 97.6 | 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2102441

17-Feb-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>MB-58022</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>58022</b>          | RunNo: <b>75192</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/10/2021</b>    | Analysis Date: <b>2/10/2021</b> | SeqNo: <b>2654980</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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               |             | 95.9 | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-58022</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>58022</b>          | RunNo: <b>75192</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/10/2021</b> | Analysis Date: <b>2/10/2021</b> | SeqNo: <b>2654982</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 53                              | 10                                                         | 50.00               | 0           | 106  | 68.9     | 141       |      |          |      |
| Surr: DNOP                  | 4.7                             |                                                            | 5.000               |             | 94.6 | 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 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102441

17-Feb-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>LCS-58010</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>58010</b>          | RunNo: <b>75299</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/9/2021</b>    | Analysis Date: <b>2/15/2021</b> | SeqNo: <b>2661377</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 25                              | 5.0                                               | 25.00               | 0           | 99.2 | 80       | 120       |      |          |      |
| Surr: BFB                     | 990                             |                                                   | 1000                |             | 98.7 | 75.3     | 105       |      |          |      |

| Sample ID: <b>MB-58010</b>    | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>58010</b>          | RunNo: <b>75299</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/9/2021</b>    | Analysis Date: <b>2/15/2021</b> | SeqNo: <b>2661378</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0                                               |                     |             |      |          |           |      |          |      |
| Surr: BFB                     | 890                             |                                                   | 1000                |             | 88.6 | 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 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102441

17-Feb-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>LCS-58010</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>58010</b>          | RunNo: <b>75299</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/9/2021</b>  | Analysis Date: <b>2/15/2021</b> | SeqNo: <b>2661404</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.89                            | 0.025                                        | 1.000               | 0           | 88.5 | 80       | 120       |      |          |      |
| Toluene                     | 0.87                            | 0.050                                        | 1.000               | 0           | 87.4 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.86                            | 0.050                                        | 1.000               | 0           | 86.5 | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.6                             | 0.10                                         | 3.000               | 0           | 86.9 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.86                            |                                              | 1.000               |             | 86.4 | 80       | 120       |      |          |      |

| Sample ID: <b>MB-58010</b> | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>      | Batch ID: <b>58010</b>          | RunNo: <b>75299</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/9/2021</b> | Analysis Date: <b>2/15/2021</b> | SeqNo: <b>2661405</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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 | 0.87                            |                                              | 1.000               |             | 86.8 | 80       | 120       |      |          |      |

**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



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: Devon Energy Work Order Number: 2102441 RcptNo: 1

Received By: Desiree Dominguez 2/9/2021 7:55:00 AM
Completed By: Sean Livingston 2/9/2021 9:49:44 AM
Reviewed By: ENM 2/9/21

Handwritten initials and signature: ID, Sean Livingston

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH: 20 (2/9/21)
(<2 or >12 unless noted)
Adjusted?
Checked by:

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: Date:
By Whom: Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 3.5, Good, [ ], [ ], [ ]



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2102438

17-Feb-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>MB-58022</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>58022</b>          | RunNo: <b>75192</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>2/10/2021</b> | Analysis Date: <b>2/10/2021</b> | SeqNo: <b>2654980</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 9.6                             |                                                            | 10.00              |             | 95.9 | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-58022</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>58022</b>          | RunNo: <b>75192</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>2/10/2021</b> | Analysis Date: <b>2/10/2021</b> | SeqNo: <b>2654982</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 4.7                             |                                                            | 5.000              |             | 94.6 | 70       | 130       |      |          |      |

| Sample ID: <b>MB-58012</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>58012</b>          | RunNo: <b>75192</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/9/2021</b>     | Analysis Date: <b>2/10/2021</b> | SeqNo: <b>2655611</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                        | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND                              | 10                                                         |                     |             |      |          |           |      |          |      |
| Motor Oil Range Organics (MRO) | ND                              | 50                                                         |                     |             |      |          |           |      |          |      |
| Surr: DNOP                     | 13                              |                                                            | 10.00               |             | 131  | 70       | 130       |      |          | S    |

| Sample ID: <b>LCS-58012</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>58012</b>          | RunNo: <b>75192</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/9/2021</b>  | Analysis Date: <b>2/10/2021</b> | SeqNo: <b>2655613</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 68                              | 10                                                         | 50.00               | 0           | 135  | 68.9     | 141       |      |          |      |
| Surr: DNOP                  | 6.8                             |                                                            | 5.000               |             | 135  | 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 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102438

17-Feb-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>LCS-58010</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>58010</b>          | RunNo: <b>75299</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/9/2021</b>    | Analysis Date: <b>2/15/2021</b> | SeqNo: <b>2661377</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 25                              | 5.0                                               | 25.00               | 0           | 99.2 | 80       | 120       |      |          |      |
| Surr: BFB                     | 990                             |                                                   | 1000                |             | 98.7 | 75.3     | 105       |      |          |      |

| Sample ID: <b>MB-58010</b>    | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>58010</b>          | RunNo: <b>75299</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/9/2021</b>    | Analysis Date: <b>2/15/2021</b> | SeqNo: <b>2661378</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0                                               |                     |             |      |          |           |      |          |      |
| Surr: BFB                     | 890                             |                                                   | 1000                |             | 88.6 | 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 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2102438

17-Feb-21

**Client:** Devon Energy  
**Project:** North Pure Gold 8 Fed 6

| Sample ID: <b>LCS-58010</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>58010</b>          | RunNo: <b>75299</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/9/2021</b>  | Analysis Date: <b>2/15/2021</b> | SeqNo: <b>2661404</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.89                            | 0.025                                        | 1.000               | 0           | 88.5 | 80       | 120       |      |          |      |
| Toluene                     | 0.87                            | 0.050                                        | 1.000               | 0           | 87.4 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.86                            | 0.050                                        | 1.000               | 0           | 86.5 | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.6                             | 0.10                                         | 3.000               | 0           | 86.9 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.86                            |                                              | 1.000               |             | 86.4 | 80       | 120       |      |          |      |

| Sample ID: <b>MB-58010</b> | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>      | Batch ID: <b>58010</b>          | RunNo: <b>75299</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/9/2021</b> | Analysis Date: <b>2/15/2021</b> | SeqNo: <b>2661405</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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 | 0.87                            |                                              | 1.000               |             | 86.8 | 80       | 120       |      |          |      |

**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
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- 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



Hall Environmental Analysis Laboratory  
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Website: clients.hallenvironmental.com

# Sample Log-In Check List

Client Name: Devon Energy      Work Order Number: 2102438      RcptNo: 1

Received By: Desiree Dominguez      2/9/2021 7:55:00 AM

Completed By: Sean Livingston      2/9/2021 9:15:48 AM

Reviewed By: ENH      2/9/21

*DD*  
*Sean Livingston*

### Chain of Custody

1. Is Chain of Custody complete?      Yes       No       Not Present

2. How was the sample delivered?      Courier

### Log In

3. Was an attempt made to cool the samples?      Yes       No       NA

4. Were all samples received at a temperature of >0° C to 6.0°C      Yes       No       NA

5. Sample(s) in proper container(s)?      Yes       No

6. Sufficient sample volume for indicated test(s)?      Yes       No

7. Are samples (except VOA and ONG) properly preserved?      Yes       No

8. Was preservative added to bottles?      Yes       No       NA

9. Received at least 1 vial with headspace <1/4" for AQ VOA?      Yes       No       NA

10. Were any sample containers received broken?      Yes       No

11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody)      Yes       No

12. Are matrices correctly identified on Chain of Custody?      Yes       No

13. Is it clear what analyses were requested?      Yes       No

14. Were all holding times able to be met?  
(If no, notify customer for authorization.)      Yes       No

*IO*  
*2/9/21*  
# of preserved bottles checked for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

### Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 3.5     | Good      |             |         |           |           |

### Chain-of-Custody Record

Client: Denver  
 Turn-Around Time: 5-day  
 Standard  Rush  
 Project Name: North Pine Cold & Fed 6

Mailing Address: On file  
 Project #: JOE-00141-017

Phone #: \_\_\_\_\_  
 email or Fax#: \_\_\_\_\_  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Az Compliance  
 NELAC  Other  
 EDD (Type) \_\_\_\_\_  
 Project Manager: Monica Peppin  
 Sampler: J.B.  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 3, 3 to 2 = 3, 5 (°C)

Analysis Request

|                                                                                 |                                     |
|---------------------------------------------------------------------------------|-------------------------------------|
| BTX / MTBE / TMBs (8021)                                                        | <input checked="" type="checkbox"/> |
| TPH: 8015D (GRO / DRO / MRO)                                                    | <input checked="" type="checkbox"/> |
| 8081 Pesticides/8082 PCB's                                                      |                                     |
| EDB (Method 504.1)                                                              |                                     |
| PAHs by 8310 or 8270SIMS                                                        |                                     |
| RCRA 8 Metals                                                                   |                                     |
| C, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> | <input checked="" type="checkbox"/> |
| 8260 (VOA)                                                                      |                                     |
| 8270 (Semi-VOA)                                                                 |                                     |
| Total Coliform (Present/Absent)                                                 |                                     |

| Date | Time  | Matrix | Sample Name   | Container Type and # | Preservative Type | HEAL No.    |
|------|-------|--------|---------------|----------------------|-------------------|-------------|
| 2-5  | 11:00 | soil   | BS21-01 4.5'  | 402                  | ice               | 2102438 001 |
|      | 11:05 |        | BS21-04 2'    |                      |                   | 002         |
|      | 11:10 |        | BS21-05 2.5'  |                      |                   | 003         |
|      | 11:15 |        | BS21-06 3'    |                      |                   | 004         |
|      | 11:20 |        | BS21-07 2.5'  |                      |                   | 005         |
|      | 11:40 |        | WS21-01 0.45' |                      |                   | 006         |
|      | 11:45 |        | WS21-02 0.3'  |                      |                   | 007         |
|      | 11:50 |        | WS21-03 0.3'  |                      |                   | 008         |
|      | 11:55 |        | WS21-05 0.2'  |                      |                   | 009         |
|      | 12:00 |        | WS21-06 0.25' |                      |                   | 010         |
|      | 12:05 |        | WS21-07 0.3'  |                      |                   | 011         |
|      | 12:10 |        | WS21-08 0.3'  |                      |                   | 012         |

Received by: Mumma Date: 2/21/11 Time: 11:0  
 Relinquished by: \_\_\_\_\_  
 Received by: FD Date: 2/19/21 Time: 7:55  
 Relinquished by: Mumma

Remarks: CC: Monica Peppin  
NO# 20835914



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

February 01, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: North Pure Gold 8 Federal 006 West

OrderNo.: 2301867

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 12 sample(s) on 1/24/2023 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2301867**

Date Reported: **2/1/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS21-04 0-3'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/20/2023 9:00:00 AM

**Lab ID:** 2301867-001

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 1/26/2023 2:28:33 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 1/26/2023 2:28:33 PM |
| Surr: DNOP                                       | 104    | 69-147   |      | %Rec  | 1  | 1/26/2023 2:28:33 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/31/2023 5:46:47 AM |
| Surr: BFB                                        | 99.2   | 37.7-212 |      | %Rec  | 1  | 1/31/2023 5:46:47 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/31/2023 5:46:47 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/31/2023 5:46:47 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/31/2023 5:46:47 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 1/31/2023 5:46:47 AM |
| Surr: 4-Bromofluorobenzene                       | 91.0   | 70-130   |      | %Rec  | 1  | 1/31/2023 5:46:47 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 99     | 60       |      | mg/Kg | 20 | 1/30/2023 2:14:32 PM |

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

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

**Analytical Report**

Lab Order **2301867**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-09 0-8'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/20/2023 9:30:00 AM

**Lab ID:** 2301867-002

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 1/26/2023 10:45:34 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 1/26/2023 10:45:34 PM |
| Surr: DNOP                                       | 134    | 69-147   |      | %Rec  | 1  | 1/26/2023 10:45:34 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/31/2023 6:56:14 AM  |
| Surr: BFB                                        | 100    | 37.7-212 |      | %Rec  | 1  | 1/31/2023 6:56:14 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/31/2023 6:56:14 AM  |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/31/2023 6:56:14 AM  |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/31/2023 6:56:14 AM  |
| Xylenes, Total                                   | ND     | 0.092    |      | mg/Kg | 1  | 1/31/2023 6:56:14 AM  |
| Surr: 4-Bromofluorobenzene                       | 90.3   | 70-130   |      | %Rec  | 1  | 1/31/2023 6:56:14 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 100    | 61       |      | mg/Kg | 20 | 1/29/2023 12:33:59 AM |

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

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

**Analytical Report**

Lab Order **2301867**

Date Reported: **2/1/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-10 0-4'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/20/2023 10:00:00 AM

**Lab ID:** 2301867-003

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 1/26/2023 10:56:16 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/26/2023 10:56:16 PM |
| Surr: DNOP                                       | 109    | 69-147   |      | %Rec  | 1  | 1/26/2023 10:56:16 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/31/2023 7:19:23 AM  |
| Surr: BFB                                        | 99.9   | 37.7-212 |      | %Rec  | 1  | 1/31/2023 7:19:23 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/31/2023 7:19:23 AM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 1/31/2023 7:19:23 AM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 1/31/2023 7:19:23 AM  |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/31/2023 7:19:23 AM  |
| Surr: 4-Bromofluorobenzene                       | 90.4   | 70-130   |      | %Rec  | 1  | 1/31/2023 7:19:23 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/29/2023 12:46:19 AM |

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

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

**Analytical Report**

Lab Order **2301867**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-11 3-4'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/20/2023 10:30:00 AM

**Lab ID:** 2301867-004

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 1/26/2023 11:07:00 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/26/2023 11:07:00 PM |
| Surr: DNOP                                       | 107    | 69-147   |      | %Rec  | 1  | 1/26/2023 11:07:00 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 1/31/2023 7:42:34 AM  |
| Surr: BFB                                        | 99.0   | 37.7-212 |      | %Rec  | 1  | 1/31/2023 7:42:34 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/31/2023 7:42:34 AM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 1/31/2023 7:42:34 AM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 1/31/2023 7:42:34 AM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 1/31/2023 7:42:34 AM  |
| Surr: 4-Bromofluorobenzene                       | 91.0   | 70-130   |      | %Rec  | 1  | 1/31/2023 7:42:34 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 110    | 60       |      | mg/Kg | 20 | 1/29/2023 12:58:41 AM |

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

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

**Analytical Report**

Lab Order **2301867**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** WS23-12 3-8'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/20/2023 11:00:00 AM

**Lab ID:** 2301867-005

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 1/26/2023 11:17:42 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 1/26/2023 11:17:42 PM |
| Surr: DNOP                                       | 121    | 69-147   |      | %Rec  | 1  | 1/26/2023 11:17:42 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/31/2023 8:05:41 AM  |
| Surr: BFB                                        | 97.8   | 37.7-212 |      | %Rec  | 1  | 1/31/2023 8:05:41 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/31/2023 8:05:41 AM  |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/31/2023 8:05:41 AM  |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/31/2023 8:05:41 AM  |
| Xylenes, Total                                   | ND     | 0.092    |      | mg/Kg | 1  | 1/31/2023 8:05:41 AM  |
| Surr: 4-Bromofluorobenzene                       | 89.0   | 70-130   |      | %Rec  | 1  | 1/31/2023 8:05:41 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 59       |      | mg/Kg | 20 | 1/29/2023 1:11:01 AM  |

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

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

**Analytical Report**

Lab Order **2301867**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-09 5'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/20/2023 11:30:00 AM

**Lab ID:** 2301867-006

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 1/26/2023 11:28:22 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 1/26/2023 11:28:22 PM |
| Surr: DNOP                                       | 102    | 69-147   |      | %Rec  | 1  | 1/26/2023 11:28:22 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/31/2023 8:28:52 AM  |
| Surr: BFB                                        | 99.5   | 37.7-212 |      | %Rec  | 1  | 1/31/2023 8:28:52 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/31/2023 8:28:52 AM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 1/31/2023 8:28:52 AM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 1/31/2023 8:28:52 AM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 1/31/2023 8:28:52 AM  |
| Surr: 4-Bromofluorobenzene                       | 91.3   | 70-130   |      | %Rec  | 1  | 1/31/2023 8:28:52 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 360    | 59       |      | mg/Kg | 20 | 1/29/2023 1:23:23 AM  |

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

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

**Analytical Report**

Lab Order **2301867**

Date Reported: **2/1/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-10 4.5'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/20/2023 12:00:00 PM

**Lab ID:** 2301867-007

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 1/26/2023 11:39:02 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 1/26/2023 11:39:02 PM |
| Surr: DNOP                                       | 117    | 69-147   |      | %Rec  | 1  | 1/26/2023 11:39:02 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/31/2023 8:51:58 AM  |
| Surr: BFB                                        | 99.0   | 37.7-212 |      | %Rec  | 1  | 1/31/2023 8:51:58 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/31/2023 8:51:58 AM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/31/2023 8:51:58 AM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/31/2023 8:51:58 AM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 1/31/2023 8:51:58 AM  |
| Surr: 4-Bromofluorobenzene                       | 90.2   | 70-130   |      | %Rec  | 1  | 1/31/2023 8:51:58 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 200    | 61       |      | mg/Kg | 20 | 1/29/2023 2:00:25 AM  |

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

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

**Analytical Report**

Lab Order **2301867**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-11 4.5'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/20/2023 12:30:00 AM

**Lab ID:** 2301867-008

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 1/26/2023 11:49:39 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 1/26/2023 11:49:39 PM |
| Surr: DNOP                                       | 120    | 69-147   |      | %Rec  | 1  | 1/26/2023 11:49:39 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 1/31/2023 9:15:14 AM  |
| Surr: BFB                                        | 99.2   | 37.7-212 |      | %Rec  | 1  | 1/31/2023 9:15:14 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/31/2023 9:15:14 AM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 1/31/2023 9:15:14 AM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 1/31/2023 9:15:14 AM  |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 1/31/2023 9:15:14 AM  |
| Surr: 4-Bromofluorobenzene                       | 89.9   | 70-130   |      | %Rec  | 1  | 1/31/2023 9:15:14 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 150    | 60       |      | mg/Kg | 20 | 1/29/2023 2:12:45 AM  |

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

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

**Analytical Report**

Lab Order **2301867**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-12 4'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/20/2023 1:00:00 PM

**Lab ID:** 2301867-009

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.8      |      | mg/Kg | 1  | 1/27/2023 12:00:18 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 44       |      | mg/Kg | 1  | 1/27/2023 12:00:18 AM |
| Surr: DNOP                                       | 122    | 69-147   |      | %Rec  | 1  | 1/27/2023 12:00:18 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 1/31/2023 9:38:32 AM  |
| Surr: BFB                                        | 99.1   | 37.7-212 |      | %Rec  | 1  | 1/31/2023 9:38:32 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 1/31/2023 9:38:32 AM  |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 1/31/2023 9:38:32 AM  |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 1/31/2023 9:38:32 AM  |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 1/31/2023 9:38:32 AM  |
| Surr: 4-Bromofluorobenzene                       | 89.1   | 70-130   |      | %Rec  | 1  | 1/31/2023 9:38:32 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 95     | 59       |      | mg/Kg | 20 | 1/29/2023 2:25:05 AM  |

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

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

**Analytical Report**

Lab Order **2301867**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-13 3'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/20/2023 1:30:00 PM

**Lab ID:** 2301867-010

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 1/27/2023 12:10:55 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 1/27/2023 12:10:55 AM |
| Surr: DNOP                                       | 104    | 69-147   |      | %Rec  | 1  | 1/27/2023 12:10:55 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 1/31/2023 10:48:40 AM |
| Surr: BFB                                        | 100    | 37.7-212 |      | %Rec  | 1  | 1/31/2023 10:48:40 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 1/31/2023 10:48:40 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 1/31/2023 10:48:40 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 1/31/2023 10:48:40 AM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 1/31/2023 10:48:40 AM |
| Surr: 4-Bromofluorobenzene                       | 90.1   | 70-130   |      | %Rec  | 1  | 1/31/2023 10:48:40 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/29/2023 2:37:26 AM  |

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

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

**Analytical Report**

Lab Order **2301867**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-14 3'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/20/2023 2:00:00 PM

**Lab ID:** 2301867-011

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.8      |      | mg/Kg | 1  | 1/27/2023 12:21:30 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 44       |      | mg/Kg | 1  | 1/27/2023 12:21:30 AM |
| Surr: DNOP                                       | 110    | 69-147   |      | %Rec  | 1  | 1/27/2023 12:21:30 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 1/31/2023 11:12:10 AM |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 1/31/2023 11:12:10 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/31/2023 11:12:10 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 1/31/2023 11:12:10 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 1/31/2023 11:12:10 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 1/31/2023 11:12:10 AM |
| Surr: 4-Bromofluorobenzene                       | 91.8   | 70-130   |      | %Rec  | 1  | 1/31/2023 11:12:10 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/29/2023 2:49:47 AM  |

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

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

**Analytical Report**

Lab Order **2301867**

Date Reported: 2/1/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-15 3'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/20/2023 2:30:00 PM

**Lab ID:** 2301867-012

**Matrix:** SOIL

**Received Date:** 1/24/2023 1:40:00 PM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.4      |      | mg/Kg | 1  | 1/27/2023 12:42:24 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 42       |      | mg/Kg | 1  | 1/27/2023 12:42:24 AM |
| Surr: DNOP                                       | 105    | 69-147   |      | %Rec  | 1  | 1/27/2023 12:42:24 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 1/31/2023 11:35:39 AM |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 1/31/2023 11:35:39 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 1/31/2023 11:35:39 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 1/31/2023 11:35:39 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 1/31/2023 11:35:39 AM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 1/31/2023 11:35:39 AM |
| Surr: 4-Bromofluorobenzene                       | 90.0   | 70-130   |      | %Rec  | 1  | 1/31/2023 11:35:39 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 1/29/2023 3:02:07 AM  |

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301867

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>MB-72880</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72880</b>          | RunNo: <b>94262</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/28/2023</b> | Analysis Date: <b>1/28/2023</b> | SeqNo: <b>3404697</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-72880</b> | SampType: <b>ics</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72880</b>          | RunNo: <b>94262</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/28/2023</b> | Analysis Date: <b>1/28/2023</b> | SeqNo: <b>3404698</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 96.4 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-72897</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72897</b>          | RunNo: <b>94284</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/30/2023</b> | Analysis Date: <b>1/30/2023</b> | SeqNo: <b>3406221</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-72897</b> | SampType: <b>ics</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72897</b>          | RunNo: <b>94284</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/30/2023</b> | Analysis Date: <b>1/30/2023</b> | SeqNo: <b>3406222</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 94.9 | 90       | 110       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301867

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>MB-72814</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>72814</b>          | RunNo: <b>94191</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>    | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3401999</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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                     | 9.8                             |                                                            | 10.00               |             | 97.6 | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-72814</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72814</b>          | RunNo: <b>94191</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3402000</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 59                              | 10                                                         | 50.00               | 0           | 118  | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 4.7                             |                                                            | 5.000               |             | 94.0 | 69       | 147       |      |          |      |

| Sample ID: <b>MB-72830</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72830</b>          | RunNo: <b>94191</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3402654</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 10                              |                                                            | 10.00              |             | 100  | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-72830</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72830</b>          | RunNo: <b>94191</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3402655</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 4.5                             |                                                            | 5.000              |             | 90.4 | 69       | 147       |      |          |      |

| Sample ID: <b>2301867-002AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>WS23-09 0-8'</b>   | Batch ID: <b>72824</b>          | RunNo: <b>94207</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>      | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403418</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 43                              | 9.5                                                        | 47.39               | 0           | 90.6 | 54.2     | 135       |      |          |      |
| Surr: DNOP                       | 4.7                             |                                                            | 4.739               |             | 98.6 | 69       | 147       |      |          |      |

| Sample ID: <b>2301867-002AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>WS23-09 0-8'</b>    | Batch ID: <b>72824</b>          | RunNo: <b>94207</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>       | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403419</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 48                              | 9.2                                                        | 45.96               | 0           | 105  | 54.2     | 135       | 11.9 | 29.2     |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301867

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>2301867-002AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>WS23-09 0-8'</b>    | Batch ID: <b>72824</b>          | RunNo: <b>94207</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>       | Analysis Date: <b>1/27/2023</b> | SeqNo: <b>3403419</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                        | 5.2                             |                                                            | 4.596               |             | 114  | 69       | 147       | 0    | 0        |      |

| Sample ID: <b>LCS-72824</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72824</b>          | RunNo: <b>94207</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b> | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3403443</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 48                              | 10                                                         | 50.00               | 0           | 96.6 | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 6.5                             |                                                            | 5.000               |             | 130  | 69       | 147       |      |          |      |

| Sample ID: <b>MB-72824</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>72824</b>          | RunNo: <b>94207</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>    | Analysis Date: <b>1/26/2023</b> | SeqNo: <b>3403447</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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               |             | 114  | 69       | 147       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301867

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>ics-72809</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>72809</b>          | RunNo: <b>94272</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>   | Analysis Date: <b>1/31/2023</b> | SeqNo: <b>3405391</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 28                              | 5.0                                               | 25.00               | 0           | 113  | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 1100                            |                                                   | 1000                |             | 111  | 37.7     | 212       |      |          |      |

| Sample ID: <b>mb-72809</b>    | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>72809</b>          | RunNo: <b>94272</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>   | Analysis Date: <b>1/31/2023</b> | SeqNo: <b>3405393</b>                             | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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  | 37.7     | 212       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301867

01-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>LCS-72809</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72809</b>          | RunNo: <b>94272</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b> | Analysis Date: <b>1/31/2023</b> | SeqNo: <b>3405429</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.91                            | 0.025                                        | 1.000               | 0           | 90.6 | 80       | 120       |      |          |      |
| Toluene                     | 0.91                            | 0.050                                        | 1.000               | 0           | 91.4 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.89                            | 0.050                                        | 1.000               | 0           | 89.2 | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.7                             | 0.10                                         | 3.000               | 0           | 89.0 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.91                            |                                              | 1.000               |             | 91.1 | 70       | 130       |      |          |      |

| Sample ID: <b>mb-72809</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72809</b>          | RunNo: <b>94272</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b> | Analysis Date: <b>1/31/2023</b> | SeqNo: <b>3405431</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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  | 0.91                            |                                              | 1.000               |             | 91.0 | 70       | 130       |      |          |      |

| Sample ID: <b>2301867-001ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>WS21-04 0-3'</b>   | Batch ID: <b>72809</b>          | RunNo: <b>94272</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/25/2023</b>      | Analysis Date: <b>1/31/2023</b> | SeqNo: <b>3405456</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.90                            | 0.025                                        | 0.9940              | 0           | 90.3 | 68.8     | 120       |      |          |      |
| Toluene                          | 0.90                            | 0.050                                        | 0.9940              | 0.01724     | 89.2 | 73.6     | 124       |      |          |      |
| Ethylbenzene                     | 0.88                            | 0.050                                        | 0.9940              | 0           | 88.5 | 72.7     | 129       |      |          |      |
| Xylenes, Total                   | 2.6                             | 0.099                                        | 2.982               | 0.02818     | 87.7 | 75.7     | 126       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.92                            |                                              | 0.9940              |             | 92.1 | 70       | 130       |      |          |      |

| Sample ID: <b>2301867-001amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |       |          |      |
|-----------------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: <b>WS21-04 0-3'</b>    | Batch ID: <b>72809</b>          | RunNo: <b>94272</b>                          |                     |             |      |          |           |       |          |      |
| Prep Date: <b>1/25/2023</b>       | Analysis Date: <b>1/31/2023</b> | SeqNo: <b>3405457</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |       |          |      |
| Analyte                           | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Benzene                           | 0.89                            | 0.025                                        | 0.9814              | 0           | 91.1 | 68.8     | 120       | 0.424 | 20       |      |
| Toluene                           | 0.91                            | 0.049                                        | 0.9814              | 0.01724     | 90.5 | 73.6     | 124       | 0.124 | 20       |      |
| Ethylbenzene                      | 0.89                            | 0.049                                        | 0.9814              | 0           | 90.9 | 72.7     | 129       | 1.30  | 20       |      |
| Xylenes, Total                    | 2.7                             | 0.098                                        | 2.944               | 0.02818     | 89.6 | 75.7     | 126       | 0.841 | 20       |      |
| Surr: 4-Bromofluorobenzene        | 0.90                            |                                              | 0.9814              |             | 91.8 | 70       | 130       | 0     | 0        |      |

**Qualifiers:**

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2301867 RcptNo: 1

Received By: Joseph Alderette 1/24/2023 1:40:00 PM
Completed By: Desiree Dominguez 1/24/2023 2:16:49 PM
Reviewed By: [Signature] 1/24/23

Chain of Custody

- 1. Is Chain of Custody complete? Yes [ ] No [x] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: [Signature] 1-24-23

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [x]

Person Notified: [ ] Date: [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:
COC missing client info (on file) - DAD 1/24/23

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.6, Good, Not Present, Yogi, ,





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

February 09, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: North Pure Gold 8 Federal 006 West

OrderNo.: 2301A35

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 7 sample(s) on 1/27/2023 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2301A35**

Date Reported: **2/9/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-16 2.5'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/25/2023 8:40:00 AM

**Lab ID:** 2301A35-001

**Matrix:** SOIL

**Received Date:** 1/27/2023 7:25:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b> |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 2/2/2023 2:58:53 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/2/2023 2:58:53 AM |
| Surr: DNOP                                       | 90.8   | 69-147   |      | %Rec  | 1  | 2/2/2023 2:58:53 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b> |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/1/2023 8:07:55 PM |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 2/1/2023 8:07:55 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b> |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/1/2023 8:07:55 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/1/2023 8:07:55 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/1/2023 8:07:55 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/1/2023 8:07:55 PM |
| Surr: 4-Bromofluorobenzene                       | 90.7   | 70-130   |      | %Rec  | 1  | 2/1/2023 8:07:55 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b> |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/2/2023 5:59:26 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 Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.

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

**Analytical Report**

Lab Order **2301A35**

Date Reported: **2/9/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-17 2.5'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/25/2023 10:15:00 AM

**Lab ID:** 2301A35-002

**Matrix:** SOIL

**Received Date:** 1/27/2023 7:25:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b> |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 2/2/2023 5:37:25 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 2/2/2023 5:37:25 PM |
| Surr: DNOP                                       | 111    | 69-147   |      | %Rec  | 1  | 2/2/2023 5:37:25 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b> |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 2/1/2023 5:58:00 PM |
| Surr: BFB                                        | 98.9   | 37.7-212 |      | %Rec  | 1  | 2/1/2023 5:58:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b> |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/1/2023 5:58:00 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 2/1/2023 5:58:00 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 2/1/2023 5:58:00 PM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 2/1/2023 5:58:00 PM |
| Surr: 4-Bromofluorobenzene                       | 101    | 70-130   |      | %Rec  | 1  | 2/1/2023 5:58:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b> |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/2/2023 6:11:47 AM |

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

**Qualifiers:**

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

**Analytical Report**

Lab Order **2301A35**

Date Reported: **2/9/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-18 2'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/25/2023 11:00:00 AM

**Lab ID:** 2301A35-003

**Matrix:** SOIL

**Received Date:** 1/27/2023 7:25:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b> |
| Diesel Range Organics (DRO)                      | ND     | 9.7      |      | mg/Kg | 1  | 2/2/2023 6:09:13 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 2/2/2023 6:09:13 PM |
| Surr: DNOP                                       | 104    | 69-147   |      | %Rec  | 1  | 2/2/2023 6:09:13 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b> |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/1/2023 6:58:00 PM |
| Surr: BFB                                        | 97.9   | 37.7-212 |      | %Rec  | 1  | 2/1/2023 6:58:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b> |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/1/2023 6:58:00 PM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/1/2023 6:58:00 PM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/1/2023 6:58:00 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/1/2023 6:58:00 PM |
| Surr: 4-Bromofluorobenzene                       | 101    | 70-130   |      | %Rec  | 1  | 2/1/2023 6:58:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b> |
| Chloride                                         | ND     | 59       |      | mg/Kg | 20 | 2/2/2023 6:24:06 AM |

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

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

**Analytical Report**

Lab Order **2301A35**

Date Reported: **2/9/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-19 2.5'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/25/2023 11:45:00 AM

**Lab ID:** 2301A35-004

**Matrix:** SOIL

**Received Date:** 1/27/2023 7:25:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b> |
| Diesel Range Organics (DRO)                      | ND     | 9.1      |      | mg/Kg | 1  | 2/2/2023 6:19:54 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/2/2023 6:19:54 PM |
| Surr: DNOP                                       | 105    | 69-147   |      | %Rec  | 1  | 2/2/2023 6:19:54 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b> |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/1/2023 7:57:00 PM |
| Surr: BFB                                        | 98.4   | 37.7-212 |      | %Rec  | 1  | 2/1/2023 7:57:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b> |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/1/2023 7:57:00 PM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/1/2023 7:57:00 PM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/1/2023 7:57:00 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/1/2023 7:57:00 PM |
| Surr: 4-Bromofluorobenzene                       | 102    | 70-130   |      | %Rec  | 1  | 2/1/2023 7:57:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b> |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/2/2023 6:46:46 AM |

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

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

**Analytical Report**

Lab Order **2301A35**

Date Reported: **2/9/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-20 2.5'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/25/2023 12:55:00 PM

**Lab ID:** 2301A35-005

**Matrix:** SOIL

**Received Date:** 1/27/2023 7:25:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b> |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 2/2/2023 6:30:33 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 2/2/2023 6:30:33 PM |
| Surr: DNOP                                       | 124    | 69-147   |      | %Rec  | 1  | 2/2/2023 6:30:33 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b> |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/1/2023 8:16:00 PM |
| Surr: BFB                                        | 98.3   | 37.7-212 |      | %Rec  | 1  | 2/1/2023 8:16:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b> |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/1/2023 8:16:00 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/1/2023 8:16:00 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/1/2023 8:16:00 PM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 2/1/2023 8:16:00 PM |
| Surr: 4-Bromofluorobenzene                       | 99.5   | 70-130   |      | %Rec  | 1  | 2/1/2023 8:16:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b> |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/2/2023 6:59:06 AM |

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

**Qualifiers:**

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

**Analytical Report**

Lab Order **2301A35**

Date Reported: **2/9/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-21 2.5'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/25/2023 1:30:00 PM

**Lab ID:** 2301A35-006

**Matrix:** SOIL

**Received Date:** 1/27/2023 7:25:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b> |
| Diesel Range Organics (DRO)                      | ND     | 10       |      | mg/Kg | 1  | 2/2/2023 6:41:10 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 2/2/2023 6:41:10 PM |
| Surr: DNOP                                       | 110    | 69-147   |      | %Rec  | 1  | 2/2/2023 6:41:10 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b> |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/1/2023 8:36:00 PM |
| Surr: BFB                                        | 98.8   | 37.7-212 |      | %Rec  | 1  | 2/1/2023 8:36:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b> |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/1/2023 8:36:00 PM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/1/2023 8:36:00 PM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/1/2023 8:36:00 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/1/2023 8:36:00 PM |
| Surr: 4-Bromofluorobenzene                       | 101    | 70-130   |      | %Rec  | 1  | 2/1/2023 8:36:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b> |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/2/2023 7:11:26 AM |

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

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

**Analytical Report**

Lab Order **2301A35**

Date Reported: **2/9/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-22 3'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 1/25/2023 2:15:00 PM

**Lab ID:** 2301A35-007

**Matrix:** SOIL

**Received Date:** 1/27/2023 7:25:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b> |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 2/2/2023 6:51:46 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/2/2023 6:51:46 PM |
| Surr: DNOP                                       | 113    | 69-147   |      | %Rec  | 1  | 2/2/2023 6:51:46 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b> |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/1/2023 8:56:00 PM |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 2/1/2023 8:56:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b> |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/1/2023 8:56:00 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/1/2023 8:56:00 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/1/2023 8:56:00 PM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 2/1/2023 8:56:00 PM |
| Surr: 4-Bromofluorobenzene                       | 100    | 70-130   |      | %Rec  | 1  | 2/1/2023 8:56:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b> |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/2/2023 7:23:47 AM |

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A35

09-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>MB-72957</b> | SampType: <b>mblk</b>          | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|----------------------------|--------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>      | Batch ID: <b>72957</b>         | RunNo: <b>94349</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/1/2023</b> | Analysis Date: <b>2/2/2023</b> | SeqNo: <b>3408334</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                    | Result                         | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                   | ND                             | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-72957</b> | SampType: <b>lcs</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72957</b>         | RunNo: <b>94349</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/1/2023</b>  | Analysis Date: <b>2/2/2023</b> | SeqNo: <b>3408335</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                         | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 15                             | 1.5                                       | 15.00               | 0           | 97.7 | 90       | 110       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A35

09-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>LCS-72922</b> | SampType: <b>LCS</b>           |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|-----|------------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72922</b>         |     | RunNo: <b>94350</b>                                        |             |                     |          |           |      |          |      |
| Prep Date: <b>1/31/2023</b> | Analysis Date: <b>2/1/2023</b> |     | SeqNo: <b>3408369</b>                                      |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                         | PQL | SPK value                                                  | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 43                             | 10  | 50.00                                                      | 0           | 85.5                | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 5.4                            |     | 5.000                                                      |             | 108                 | 69       | 147       |      |          |      |

| Sample ID: <b>MB-72922</b>     | SampType: <b>MBLK</b>          |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
|--------------------------------|--------------------------------|-----|------------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>72922</b>         |     | RunNo: <b>94350</b>                                        |             |                     |          |           |      |          |      |
| Prep Date: <b>1/31/2023</b>    | Analysis Date: <b>2/1/2023</b> |     | SeqNo: <b>3408373</b>                                      |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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                                                      |             | 96.2                | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-72933</b> | SampType: <b>LCS</b>           |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|-----|------------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72933</b>         |     | RunNo: <b>94358</b>                                        |             |                     |          |           |      |          |      |
| Prep Date: <b>2/1/2023</b>  | Analysis Date: <b>2/2/2023</b> |     | SeqNo: <b>3408806</b>                                      |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                         | PQL | SPK value                                                  | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 45                             | 10  | 50.00                                                      | 0           | 90.4                | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 5.3                            |     | 5.000                                                      |             | 106                 | 69       | 147       |      |          |      |

| Sample ID: <b>MB-72933</b>     | SampType: <b>MBLK</b>          |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
|--------------------------------|--------------------------------|-----|------------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>72933</b>         |     | RunNo: <b>94358</b>                                        |             |                     |          |           |      |          |      |
| Prep Date: <b>2/1/2023</b>     | Analysis Date: <b>2/2/2023</b> |     | SeqNo: <b>3408811</b>                                      |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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                     | 10                             |     | 10.00                                                      |             | 103                 | 69       | 147       |      |          |      |

| Sample ID: <b>2301A35-002AMS</b> | SampType: <b>MS</b>            |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
|----------------------------------|--------------------------------|-----|------------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-17 2.5'</b>   | Batch ID: <b>72933</b>         |     | RunNo: <b>94358</b>                                        |             |                     |          |           |      |          |      |
| Prep Date: <b>2/1/2023</b>       | Analysis Date: <b>2/2/2023</b> |     | SeqNo: <b>3409636</b>                                      |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                          | Result                         | PQL | SPK value                                                  | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 38                             | 8.9 | 44.56                                                      | 0           | 84.2                | 54.2     | 135       |      |          |      |
| Surr: DNOP                       | 5.2                            |     | 4.456                                                      |             | 117                 | 69       | 147       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A35

09-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>2301A35-002AMSD</b> | SampType: <b>MSD</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |                     |          |           |      |          |      |
|-----------------------------------|--------------------------------|------------------------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-17 2.5'</b>    | Batch ID: <b>72933</b>         | RunNo: <b>94358</b>                                        |           |             |                     |          |           |      |          |      |
| Prep Date: <b>2/1/2023</b>        | Analysis Date: <b>2/2/2023</b> | SeqNo: <b>3409637</b>                                      |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                           | Result                         | PQL                                                        | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 42                             | 9.3                                                        | 46.55     | 0           | 90.3                | 54.2     | 135       | 11.3 | 29.2     |      |
| Surr: DNOP                        | 5.4                            |                                                            | 4.655     |             | 115                 | 69       | 147       | 0    | 0        |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A35

09-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>LCS-72920</b>   | SampType: <b>LCS</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|--------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>72920</b>         |     | RunNo: <b>94333</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/31/2023</b>   | Analysis Date: <b>2/1/2023</b> |     | SeqNo: <b>3407444</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                         | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 28                             | 5.0 | 25.00                                             | 0           | 110                 | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 1100                           |     | 1000                                              |             | 113                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>mb-72920</b>    | SampType: <b>MBLK</b>          |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|--------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>72920</b>         |     | RunNo: <b>94333</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/31/2023</b>   | Analysis Date: <b>2/1/2023</b> |     | SeqNo: <b>3407445</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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                                              |             | 102                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>lcs-72924</b>   | SampType: <b>LCS</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|--------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>72924</b>         |     | RunNo: <b>94327</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/31/2023</b>   | Analysis Date: <b>2/1/2023</b> |     | SeqNo: <b>3407946</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                         | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 27                             | 5.0 | 25.00                                             | 0           | 109                 | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 1200                           |     | 1000                                              |             | 116                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>mb-72924</b>    | SampType: <b>MBLK</b>          |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|--------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>72924</b>         |     | RunNo: <b>94327</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/31/2023</b>   | Analysis Date: <b>2/1/2023</b> |     | SeqNo: <b>3407948</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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                                              |             | 105                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>2301A35-002ams</b> | SampType: <b>MS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|----------------------------------|--------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-17 2.5'</b>   | Batch ID: <b>72924</b>         |     | RunNo: <b>94327</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/31/2023</b>      | Analysis Date: <b>2/1/2023</b> |     | SeqNo: <b>3407950</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                          | Result                         | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 27                             | 4.8 | 23.99                                             | 0           | 112                 | 70       | 130       |      |          |      |
| Surr: BFB                        | 1100                           |     | 959.7                                             |             | 113                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>2301A35-002amsd</b> | SampType: <b>MSD</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-----------------------------------|--------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-17 2.5'</b>    | Batch ID: <b>72924</b>         |     | RunNo: <b>94327</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/31/2023</b>       | Analysis Date: <b>2/1/2023</b> |     | SeqNo: <b>3407951</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                           | Result                         | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A35

09-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>2301A35-002amsd</b> | SampType: <b>MSD</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |      |          |      |
|-----------------------------------|--------------------------------|---------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-17 2.5'</b>    | Batch ID: <b>72924</b>         | RunNo: <b>94327</b>                               |           |             |      |          |           |      |          |      |
| Prep Date: <b>1/31/2023</b>       | Analysis Date: <b>2/1/2023</b> | SeqNo: <b>3407951</b> Units: <b>mg/Kg</b>         |           |             |      |          |           |      |          |      |
| Analyte                           | Result                         | PQL                                               | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 27                             | 4.8                                               | 23.76     | 0           | 115  | 70       | 130       | 2.01 | 20       |      |
| Surr: BFB                         | 1200                           |                                                   | 950.6     |             | 122  | 37.7     | 212       | 0    | 0        |      |

**Qualifiers:**

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A35

09-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>ics-72920</b> | SampType: <b>LCS</b>           |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72920</b>         |       | RunNo: <b>94333</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>1/31/2023</b> | Analysis Date: <b>2/1/2023</b> |       | SeqNo: <b>3407456</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                         | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.92                           | 0.025 | 1.000                                        | 0           | 91.6                | 80       | 120       |      |          |      |
| Toluene                     | 0.94                           | 0.050 | 1.000                                        | 0           | 93.6                | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.92                           | 0.050 | 1.000                                        | 0           | 92.0                | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.8                            | 0.10  | 3.000                                        | 0           | 92.5                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.94                           |       | 1.000                                        |             | 94.1                | 70       | 130       |      |          |      |

| Sample ID: <b>mb-72920</b>  | SampType: <b>MBLK</b>          |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72920</b>         |       | RunNo: <b>94333</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>1/31/2023</b> | Analysis Date: <b>2/1/2023</b> |       | SeqNo: <b>3407457</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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  | 0.93                           |       | 1.000                                        |             | 93.4                | 70       | 130       |      |          |      |

| Sample ID: <b>ics-72924</b> | SampType: <b>LCS</b>           |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>72924</b>         |       | RunNo: <b>94327</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>1/31/2023</b> | Analysis Date: <b>2/1/2023</b> |       | SeqNo: <b>3408002</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                         | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.96                           | 0.025 | 1.000                                        | 0           | 95.6                | 80       | 120       |      |          |      |
| Toluene                     | 0.97                           | 0.050 | 1.000                                        | 0           | 97.1                | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.97                           | 0.050 | 1.000                                        | 0           | 97.5                | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.9                            | 0.10  | 3.000                                        | 0           | 97.9                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.0                            |       | 1.000                                        |             | 103                 | 70       | 130       |      |          |      |

| Sample ID: <b>mb-72924</b>  | SampType: <b>MBLK</b>          |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>72924</b>         |       | RunNo: <b>94327</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>1/31/2023</b> | Analysis Date: <b>2/1/2023</b> |       | SeqNo: <b>3408003</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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                                        |             | 104                 | 70       | 130       |      |          |      |

**Qualifiers:**

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A35

09-Feb-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>2301A35-003ams</b> | SampType: <b>MS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|--------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-18 2'</b>     | Batch ID: <b>72924</b>         | RunNo: <b>94327</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>1/31/2023</b>      | Analysis Date: <b>2/1/2023</b> | SeqNo: <b>3408006</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                         | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.93                           | 0.025                                        | 0.9872              | 0           | 94.0 | 68.8     | 120       |      |          |      |
| Toluene                          | 0.96                           | 0.049                                        | 0.9872              | 0           | 97.2 | 73.6     | 124       |      |          |      |
| Ethylbenzene                     | 0.97                           | 0.049                                        | 0.9872              | 0           | 98.0 | 72.7     | 129       |      |          |      |
| Xylenes, Total                   | 2.9                            | 0.099                                        | 2.962               | 0           | 98.5 | 75.7     | 126       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 1.0                            |                                              | 0.9872              |             | 102  | 70       | 130       |      |          |      |

| Sample ID: <b>2301A35-003amsd</b> | SampType: <b>MSD</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |       |          |      |
|-----------------------------------|--------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: <b>BS23-18 2'</b>      | Batch ID: <b>72924</b>         | RunNo: <b>94327</b>                          |                     |             |      |          |           |       |          |      |
| Prep Date: <b>1/31/2023</b>       | Analysis Date: <b>2/1/2023</b> | SeqNo: <b>3408007</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |       |          |      |
| Analyte                           | Result                         | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Benzene                           | 0.95                           | 0.025                                        | 0.9823              | 0           | 96.3 | 68.8     | 120       | 1.91  | 20       |      |
| Toluene                           | 0.97                           | 0.049                                        | 0.9823              | 0           | 98.7 | 73.6     | 124       | 1.07  | 20       |      |
| Ethylbenzene                      | 0.98                           | 0.049                                        | 0.9823              | 0           | 99.5 | 72.7     | 129       | 1.08  | 20       |      |
| Xylenes, Total                    | 2.9                            | 0.098                                        | 2.947               | 0           | 99.9 | 75.7     | 126       | 0.978 | 20       |      |
| Surr: 4-Bromofluorobenzene        | 1.0                            |                                              | 0.9823              |             | 103  | 70       | 130       | 0     | 0        |      |

**Qualifiers:**

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- P Sample pH Not In Range
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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.

Work Order Number: 2301A35

RcptNo: 1

Received By: Juan Rojas 1/27/2023 7:25:00 AM

[Signature]

Completed By: Tracy Casarrubias 1/27/2023 8:11:44 AM

Reviewed By: KPC 1-27-23

Chain of Custody

- 1. Is Chain of Custody complete? Yes [ ] No [x] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: [Signature] 1-27-23

Special Handling (if applicable)

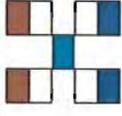
- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [x]

Person Notified: [ ] Date: [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time:  
 Standard  Rush 5 Day  
 Project Name:

**North Pure Gold 8 Federal #006, West**

Project #:

**22E-02816-07**

Project Manager:

Kent Stallings

kstallings@vertex.ca

Sampler:  Yes  No

On Ice:  Yes  No

# of Coolers: 2 Yog.

Cooler Temp (including CP): 0.8-0.3 = 0.5

Container Type and #

Preservative Type

HEAL No.

1, 4oz jar

Client: **Vertex**  
 (direct bill to Devon)

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance

NELAC  Other

EDD (Type)

| Date     | Time  | Matrix | Sample Name  |
|----------|-------|--------|--------------|
| 01/25/23 | 8:40  | Soil   | BS23-16 2.5' |
| 01/25/23 | 10:15 | Soil   | BS23-17 2.5' |
| 01/25/23 | 11:00 | Soil   | BS23-18 2'   |
| 01/25/23 | 11:45 | Soil   | BS23-19 2.5' |
| 01/25/23 | 12:55 | Soil   | BS23-20 2.5' |
| 01/25/23 | 13:30 | Soil   | BS23-21 2.5' |
| 01/25/23 | 14:15 | Soil   | BS23-22 3'   |

**Analysis Request**

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

Remarks:  
 Direct bill to Devon, Dale Woodall  
 cc. kstallings@vertex.ca for Final Report

Received by: Christina Date: 1/25/23 7:00  
 Received by: Christina Date: 1/27/23 7:25

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: [www.hallenvironmental.com](http://www.hallenvironmental.com)

March 07, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: North Pure Gold 8 Federal 006 West

OrderNo.: 2302999

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 50 sample(s) on 2/23/2023 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-23 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 9:30:00 AM

**Lab ID:** 2302999-001

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.9    |      | mg/Kg | 1  | 2/27/2023 7:24:41 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 44     |      | mg/Kg | 1  | 2/27/2023 7:24:41 PM |
| Surr: DNOP                                       | 91.8   | 69-147 |      | %Rec  | 1  | 2/27/2023 7:24:41 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 2:05:56 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 3/2/2023 12:52:20 AM |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 12:52:20 AM |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 12:52:20 AM |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 3/2/2023 12:52:20 AM |
| Surr: 1,2-Dichloroethane-d4                      | 97.8   | 70-130 |      | %Rec  | 1  | 3/2/2023 12:52:20 AM |
| Surr: 4-Bromofluorobenzene                       | 94.7   | 70-130 |      | %Rec  | 1  | 3/2/2023 12:52:20 AM |
| Surr: Dibromofluoromethane                       | 99.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 12:52:20 AM |
| Surr: Toluene-d8                                 | 94.5   | 70-130 |      | %Rec  | 1  | 3/2/2023 12:52:20 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 3/2/2023 12:52:20 AM |
| Surr: BFB                                        | 99.3   | 70-130 |      | %Rec  | 1  | 3/2/2023 12:52:20 AM |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-24 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 9:30:00 AM

**Lab ID:** 2302999-002

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.9    |      | mg/Kg | 1  | 2/27/2023 8:04:13 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 50     |      | mg/Kg | 1  | 2/27/2023 8:04:13 PM |
| Surr: DNOP                                       | 98.4   | 69-147 |      | %Rec  | 1  | 2/27/2023 8:04:13 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 65     | 60     |      | mg/Kg | 20 | 3/1/2023 2:31:39 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 3/2/2023 2:13:49 AM  |
| Toluene                                          | ND     | 0.050  |      | mg/Kg | 1  | 3/2/2023 2:13:49 AM  |
| Ethylbenzene                                     | ND     | 0.050  |      | mg/Kg | 1  | 3/2/2023 2:13:49 AM  |
| Xylenes, Total                                   | ND     | 0.10   |      | mg/Kg | 1  | 3/2/2023 2:13:49 AM  |
| Surr: 1,2-Dichloroethane-d4                      | 99.3   | 70-130 |      | %Rec  | 1  | 3/2/2023 2:13:49 AM  |
| Surr: 4-Bromofluorobenzene                       | 99.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 2:13:49 AM  |
| Surr: Dibromofluoromethane                       | 98.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 2:13:49 AM  |
| Surr: Toluene-d8                                 | 95.9   | 70-130 |      | %Rec  | 1  | 3/2/2023 2:13:49 AM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0    |      | mg/Kg | 1  | 3/2/2023 2:13:49 AM  |
| Surr: BFB                                        | 104    | 70-130 |      | %Rec  | 1  | 3/2/2023 2:13:49 AM  |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-25 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 9:35:00 AM

**Lab ID:** 2302999-003

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.2    |      | mg/Kg | 1  | 2/27/2023 8:17:56 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46     |      | mg/Kg | 1  | 2/27/2023 8:17:56 PM |
| Surr: DNOP                                       | 95.5   | 69-147 |      | %Rec  | 1  | 2/27/2023 8:17:56 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 92     | 60     |      | mg/Kg | 20 | 3/1/2023 2:43:59 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 3/2/2023 3:35:15 AM  |
| Toluene                                          | ND     | 0.050  |      | mg/Kg | 1  | 3/2/2023 3:35:15 AM  |
| Ethylbenzene                                     | ND     | 0.050  |      | mg/Kg | 1  | 3/2/2023 3:35:15 AM  |
| Xylenes, Total                                   | ND     | 0.099  |      | mg/Kg | 1  | 3/2/2023 3:35:15 AM  |
| Surr: 1,2-Dichloroethane-d4                      | 95.7   | 70-130 |      | %Rec  | 1  | 3/2/2023 3:35:15 AM  |
| Surr: 4-Bromofluorobenzene                       | 102    | 70-130 |      | %Rec  | 1  | 3/2/2023 3:35:15 AM  |
| Surr: Dibromofluoromethane                       | 96.5   | 70-130 |      | %Rec  | 1  | 3/2/2023 3:35:15 AM  |
| Surr: Toluene-d8                                 | 94.4   | 70-130 |      | %Rec  | 1  | 3/2/2023 3:35:15 AM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0    |      | mg/Kg | 1  | 3/2/2023 3:35:15 AM  |
| Surr: BFB                                        | 106    | 70-130 |      | %Rec  | 1  | 3/2/2023 3:35:15 AM  |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-26 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 9:35:00 AM

**Lab ID:** 2302999-004

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.3    |      | mg/Kg | 1  | 2/27/2023 8:31:56 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46     |      | mg/Kg | 1  | 2/27/2023 8:31:56 PM |
| Surr: DNOP                                       | 102    | 69-147 |      | %Rec  | 1  | 2/27/2023 8:31:56 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | ND     | 59     |      | mg/Kg | 20 | 2/25/2023 3:07:59 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 3/2/2023 4:02:25 AM  |
| Toluene                                          | ND     | 0.050  |      | mg/Kg | 1  | 3/2/2023 4:02:25 AM  |
| Ethylbenzene                                     | ND     | 0.050  |      | mg/Kg | 1  | 3/2/2023 4:02:25 AM  |
| Xylenes, Total                                   | ND     | 0.10   |      | mg/Kg | 1  | 3/2/2023 4:02:25 AM  |
| Surr: 1,2-Dichloroethane-d4                      | 94.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 4:02:25 AM  |
| Surr: 4-Bromofluorobenzene                       | 96.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 4:02:25 AM  |
| Surr: Dibromofluoromethane                       | 100    | 70-130 |      | %Rec  | 1  | 3/2/2023 4:02:25 AM  |
| Surr: Toluene-d8                                 | 98.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 4:02:25 AM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0    |      | mg/Kg | 1  | 3/2/2023 4:02:25 AM  |
| Surr: BFB                                        | 102    | 70-130 |      | %Rec  | 1  | 3/2/2023 4:02:25 AM  |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-27 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 9:40:00 AM

**Lab ID:** 2302999-005

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.8    |      | mg/Kg | 1  | 2/27/2023 8:45:51 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49     |      | mg/Kg | 1  | 2/27/2023 8:45:51 PM |
| Surr: DNOP                                       | 97.8   | 69-147 |      | %Rec  | 1  | 2/27/2023 8:45:51 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 3:20:23 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/2/2023 4:29:35 AM  |
| Toluene                                          | ND     | 0.047  |      | mg/Kg | 1  | 3/2/2023 4:29:35 AM  |
| Ethylbenzene                                     | ND     | 0.047  |      | mg/Kg | 1  | 3/2/2023 4:29:35 AM  |
| Xylenes, Total                                   | ND     | 0.094  |      | mg/Kg | 1  | 3/2/2023 4:29:35 AM  |
| Surr: 1,2-Dichloroethane-d4                      | 89.8   | 70-130 |      | %Rec  | 1  | 3/2/2023 4:29:35 AM  |
| Surr: 4-Bromofluorobenzene                       | 98.7   | 70-130 |      | %Rec  | 1  | 3/2/2023 4:29:35 AM  |
| Surr: Dibromofluoromethane                       | 96.4   | 70-130 |      | %Rec  | 1  | 3/2/2023 4:29:35 AM  |
| Surr: Toluene-d8                                 | 94.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 4:29:35 AM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7    |      | mg/Kg | 1  | 3/2/2023 4:29:35 AM  |
| Surr: BFB                                        | 101    | 70-130 |      | %Rec  | 1  | 3/2/2023 4:29:35 AM  |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-28 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 9:40:00 AM

**Lab ID:** 2302999-006

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.4    |      | mg/Kg | 1  | 2/27/2023 9:00:09 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47     |      | mg/Kg | 1  | 2/27/2023 9:00:09 PM |
| Surr: DNOP                                       | 97.3   | 69-147 |      | %Rec  | 1  | 2/27/2023 9:00:09 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | ND     | 59     |      | mg/Kg | 20 | 2/25/2023 3:57:36 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.023  |      | mg/Kg | 1  | 3/2/2023 4:56:42 AM  |
| Toluene                                          | ND     | 0.046  |      | mg/Kg | 1  | 3/2/2023 4:56:42 AM  |
| Ethylbenzene                                     | ND     | 0.046  |      | mg/Kg | 1  | 3/2/2023 4:56:42 AM  |
| Xylenes, Total                                   | ND     | 0.092  |      | mg/Kg | 1  | 3/2/2023 4:56:42 AM  |
| Surr: 1,2-Dichloroethane-d4                      | 88.8   | 70-130 |      | %Rec  | 1  | 3/2/2023 4:56:42 AM  |
| Surr: 4-Bromofluorobenzene                       | 97.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 4:56:42 AM  |
| Surr: Dibromofluoromethane                       | 99.2   | 70-130 |      | %Rec  | 1  | 3/2/2023 4:56:42 AM  |
| Surr: Toluene-d8                                 | 94.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 4:56:42 AM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6    |      | mg/Kg | 1  | 3/2/2023 4:56:42 AM  |
| Surr: BFB                                        | 101    | 70-130 |      | %Rec  | 1  | 3/2/2023 4:56:42 AM  |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-29 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 9:45:00 AM

**Lab ID:** 2302999-007

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.4    |      | mg/Kg | 1  | 2/27/2023 9:13:58 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47     |      | mg/Kg | 1  | 2/27/2023 9:13:58 PM |
| Surr: DNOP                                       | 103    | 69-147 |      | %Rec  | 1  | 2/27/2023 9:13:58 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 4:10:01 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.023  |      | mg/Kg | 1  | 3/2/2023 5:23:48 AM  |
| Toluene                                          | ND     | 0.046  |      | mg/Kg | 1  | 3/2/2023 5:23:48 AM  |
| Ethylbenzene                                     | ND     | 0.046  |      | mg/Kg | 1  | 3/2/2023 5:23:48 AM  |
| Xylenes, Total                                   | ND     | 0.093  |      | mg/Kg | 1  | 3/2/2023 5:23:48 AM  |
| Surr: 1,2-Dichloroethane-d4                      | 91.8   | 70-130 |      | %Rec  | 1  | 3/2/2023 5:23:48 AM  |
| Surr: 4-Bromofluorobenzene                       | 97.5   | 70-130 |      | %Rec  | 1  | 3/2/2023 5:23:48 AM  |
| Surr: Dibromofluoromethane                       | 96.9   | 70-130 |      | %Rec  | 1  | 3/2/2023 5:23:48 AM  |
| Surr: Toluene-d8                                 | 93.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 5:23:48 AM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6    |      | mg/Kg | 1  | 3/2/2023 5:23:48 AM  |
| Surr: BFB                                        | 101    | 70-130 |      | %Rec  | 1  | 3/2/2023 5:23:48 AM  |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-30 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 9:45:00 AM

**Lab ID:** 2302999-008

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.8    |      | mg/Kg | 1  | 2/27/2023 9:27:46 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 44     |      | mg/Kg | 1  | 2/27/2023 9:27:46 PM |
| Surr: DNOP                                       | 97.1   | 69-147 |      | %Rec  | 1  | 2/27/2023 9:27:46 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 4:22:26 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/2/2023 5:50:55 AM  |
| Toluene                                          | ND     | 0.048  |      | mg/Kg | 1  | 3/2/2023 5:50:55 AM  |
| Ethylbenzene                                     | ND     | 0.048  |      | mg/Kg | 1  | 3/2/2023 5:50:55 AM  |
| Xylenes, Total                                   | ND     | 0.097  |      | mg/Kg | 1  | 3/2/2023 5:50:55 AM  |
| Surr: 1,2-Dichloroethane-d4                      | 101    | 70-130 |      | %Rec  | 1  | 3/2/2023 5:50:55 AM  |
| Surr: 4-Bromofluorobenzene                       | 95.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 5:50:55 AM  |
| Surr: Dibromofluoromethane                       | 99.8   | 70-130 |      | %Rec  | 1  | 3/2/2023 5:50:55 AM  |
| Surr: Toluene-d8                                 | 94.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 5:50:55 AM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8    |      | mg/Kg | 1  | 3/2/2023 5:50:55 AM  |
| Surr: BFB                                        | 102    | 70-130 |      | %Rec  | 1  | 3/2/2023 5:50:55 AM  |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-31 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 9:50:00 AM

**Lab ID:** 2302999-009

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.0    |      | mg/Kg | 1  | 2/27/2023 9:41:37 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 45     |      | mg/Kg | 1  | 2/27/2023 9:41:37 PM |
| Surr: DNOP                                       | 98.1   | 69-147 |      | %Rec  | 1  | 2/27/2023 9:41:37 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 4:34:51 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/2/2023 6:18:03 AM  |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 6:18:03 AM  |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 6:18:03 AM  |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 3/2/2023 6:18:03 AM  |
| Surr: 1,2-Dichloroethane-d4                      | 98.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 6:18:03 AM  |
| Surr: 4-Bromofluorobenzene                       | 99.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 6:18:03 AM  |
| Surr: Dibromofluoromethane                       | 103    | 70-130 |      | %Rec  | 1  | 3/2/2023 6:18:03 AM  |
| Surr: Toluene-d8                                 | 95.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 6:18:03 AM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 3/2/2023 6:18:03 AM  |
| Surr: BFB                                        | 104    | 70-130 |      | %Rec  | 1  | 3/2/2023 6:18:03 AM  |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: **3/7/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-32 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 9:50:00 AM

**Lab ID:** 2302999-010

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.4    |      | mg/Kg | 1  | 2/27/2023 9:55:45 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47     |      | mg/Kg | 1  | 2/27/2023 9:55:45 PM |
| Surr: DNOP                                       | 102    | 69-147 |      | %Rec  | 1  | 2/27/2023 9:55:45 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 300    | 60     |      | mg/Kg | 20 | 3/1/2023 3:21:02 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.023  |      | mg/Kg | 1  | 3/2/2023 6:45:11 AM  |
| Toluene                                          | ND     | 0.047  |      | mg/Kg | 1  | 3/2/2023 6:45:11 AM  |
| Ethylbenzene                                     | ND     | 0.047  |      | mg/Kg | 1  | 3/2/2023 6:45:11 AM  |
| Xylenes, Total                                   | ND     | 0.093  |      | mg/Kg | 1  | 3/2/2023 6:45:11 AM  |
| Surr: 1,2-Dichloroethane-d4                      | 94.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 6:45:11 AM  |
| Surr: 4-Bromofluorobenzene                       | 94.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 6:45:11 AM  |
| Surr: Dibromofluoromethane                       | 98.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 6:45:11 AM  |
| Surr: Toluene-d8                                 | 92.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 6:45:11 AM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7    |      | mg/Kg | 1  | 3/2/2023 6:45:11 AM  |
| Surr: BFB                                        | 97.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 6:45:11 AM  |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-33 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 9:55:00 AM

**Lab ID:** 2302999-011

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 8.9    |      | mg/Kg | 1  | 2/27/2023 10:09:43 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 45     |      | mg/Kg | 1  | 2/27/2023 10:09:43 PM |
| Surr: DNOP                                       | 99.7   | 69-147 |      | %Rec  | 1  | 2/27/2023 10:09:43 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 4:59:40 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/2/2023 7:12:16 AM   |
| Toluene                                          | ND     | 0.048  |      | mg/Kg | 1  | 3/2/2023 7:12:16 AM   |
| Ethylbenzene                                     | ND     | 0.048  |      | mg/Kg | 1  | 3/2/2023 7:12:16 AM   |
| Xylenes, Total                                   | ND     | 0.095  |      | mg/Kg | 1  | 3/2/2023 7:12:16 AM   |
| Surr: 1,2-Dichloroethane-d4                      | 94.5   | 70-130 |      | %Rec  | 1  | 3/2/2023 7:12:16 AM   |
| Surr: 4-Bromofluorobenzene                       | 95.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 7:12:16 AM   |
| Surr: Dibromofluoromethane                       | 94.7   | 70-130 |      | %Rec  | 1  | 3/2/2023 7:12:16 AM   |
| Surr: Toluene-d8                                 | 95.9   | 70-130 |      | %Rec  | 1  | 3/2/2023 7:12:16 AM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.8    |      | mg/Kg | 1  | 3/2/2023 7:12:16 AM   |
| Surr: BFB                                        | 101    | 70-130 |      | %Rec  | 1  | 3/2/2023 7:12:16 AM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-34 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 9:55:00 AM

**Lab ID:** 2302999-012

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.3    |      | mg/Kg | 1  | 2/27/2023 10:23:37 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47     |      | mg/Kg | 1  | 2/27/2023 10:23:37 PM |
| Surr: DNOP                                       | 101    | 69-147 |      | %Rec  | 1  | 2/27/2023 10:23:37 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 5:12:04 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/2/2023 7:39:22 AM   |
| Toluene                                          | ND     | 0.048  |      | mg/Kg | 1  | 3/2/2023 7:39:22 AM   |
| Ethylbenzene                                     | ND     | 0.048  |      | mg/Kg | 1  | 3/2/2023 7:39:22 AM   |
| Xylenes, Total                                   | ND     | 0.096  |      | mg/Kg | 1  | 3/2/2023 7:39:22 AM   |
| Surr: 1,2-Dichloroethane-d4                      | 93.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 7:39:22 AM   |
| Surr: 4-Bromofluorobenzene                       | 98.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 7:39:22 AM   |
| Surr: Dibromofluoromethane                       | 99.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 7:39:22 AM   |
| Surr: Toluene-d8                                 | 95.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 7:39:22 AM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.8    |      | mg/Kg | 1  | 3/2/2023 7:39:22 AM   |
| Surr: BFB                                        | 103    | 70-130 |      | %Rec  | 1  | 3/2/2023 7:39:22 AM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: **3/7/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-35 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:00:00 AM

**Lab ID:** 2302999-013

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.3    |      | mg/Kg | 1  | 2/27/2023 10:37:37 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47     |      | mg/Kg | 1  | 2/27/2023 10:37:37 PM |
| Surr: DNOP                                       | 102    | 69-147 |      | %Rec  | 1  | 2/27/2023 10:37:37 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 5:24:29 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 3/2/2023 8:06:27 AM   |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 8:06:27 AM   |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 8:06:27 AM   |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 3/2/2023 8:06:27 AM   |
| Surr: 1,2-Dichloroethane-d4                      | 96.9   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:06:27 AM   |
| Surr: 4-Bromofluorobenzene                       | 100    | 70-130 |      | %Rec  | 1  | 3/2/2023 8:06:27 AM   |
| Surr: Dibromofluoromethane                       | 100    | 70-130 |      | %Rec  | 1  | 3/2/2023 8:06:27 AM   |
| Surr: Toluene-d8                                 | 95.9   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:06:27 AM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 3/2/2023 8:06:27 AM   |
| Surr: BFB                                        | 106    | 70-130 |      | %Rec  | 1  | 3/2/2023 8:06:27 AM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: **3/7/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-36 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:00:00 AM

**Lab ID:** 2302999-014

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 8.8    |      | mg/Kg | 1  | 2/27/2023 10:51:30 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 44     |      | mg/Kg | 1  | 2/27/2023 10:51:30 PM |
| Surr: DNOP                                       | 98.0   | 69-147 |      | %Rec  | 1  | 2/27/2023 10:51:30 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 5:36:53 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/2/2023 8:33:33 AM   |
| Toluene                                          | ND     | 0.047  |      | mg/Kg | 1  | 3/2/2023 8:33:33 AM   |
| Ethylbenzene                                     | ND     | 0.047  |      | mg/Kg | 1  | 3/2/2023 8:33:33 AM   |
| Xylenes, Total                                   | ND     | 0.094  |      | mg/Kg | 1  | 3/2/2023 8:33:33 AM   |
| Surr: 1,2-Dichloroethane-d4                      | 98.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:33:33 AM   |
| Surr: 4-Bromofluorobenzene                       | 94.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:33:33 AM   |
| Surr: Dibromofluoromethane                       | 98.4   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:33:33 AM   |
| Surr: Toluene-d8                                 | 95.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:33:33 AM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.7    |      | mg/Kg | 1  | 3/2/2023 8:33:33 AM   |
| Surr: BFB                                        | 99.3   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:33:33 AM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-37 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:05:00 AM

**Lab ID:** 2302999-015

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.5    |      | mg/Kg | 1  | 2/27/2023 11:05:24 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47     |      | mg/Kg | 1  | 2/27/2023 11:05:24 PM |
| Surr: DNOP                                       | 94.1   | 69-147 |      | %Rec  | 1  | 2/27/2023 11:05:24 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 5:49:18 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.023  |      | mg/Kg | 1  | 3/2/2023 9:00:42 AM   |
| Toluene                                          | ND     | 0.046  |      | mg/Kg | 1  | 3/2/2023 9:00:42 AM   |
| Ethylbenzene                                     | ND     | 0.046  |      | mg/Kg | 1  | 3/2/2023 9:00:42 AM   |
| Xylenes, Total                                   | ND     | 0.093  |      | mg/Kg | 1  | 3/2/2023 9:00:42 AM   |
| Surr: 1,2-Dichloroethane-d4                      | 96.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 9:00:42 AM   |
| Surr: 4-Bromofluorobenzene                       | 96.4   | 70-130 |      | %Rec  | 1  | 3/2/2023 9:00:42 AM   |
| Surr: Dibromofluoromethane                       | 97.7   | 70-130 |      | %Rec  | 1  | 3/2/2023 9:00:42 AM   |
| Surr: Toluene-d8                                 | 96.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 9:00:42 AM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.6    |      | mg/Kg | 1  | 3/2/2023 9:00:42 AM   |
| Surr: BFB                                        | 102    | 70-130 |      | %Rec  | 1  | 3/2/2023 9:00:42 AM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-38 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:05:00 AM

**Lab ID:** 2302999-016

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.4    |      | mg/Kg | 1  | 2/27/2023 11:19:23 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47     |      | mg/Kg | 1  | 2/27/2023 11:19:23 PM |
| Surr: DNOP                                       | 96.3   | 69-147 |      | %Rec  | 1  | 2/27/2023 11:19:23 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 61     |      | mg/Kg | 20 | 2/25/2023 6:26:32 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/2/2023 9:27:52 AM   |
| Toluene                                          | ND     | 0.047  |      | mg/Kg | 1  | 3/2/2023 9:27:52 AM   |
| Ethylbenzene                                     | ND     | 0.047  |      | mg/Kg | 1  | 3/2/2023 9:27:52 AM   |
| Xylenes, Total                                   | ND     | 0.095  |      | mg/Kg | 1  | 3/2/2023 9:27:52 AM   |
| Surr: 1,2-Dichloroethane-d4                      | 92.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 9:27:52 AM   |
| Surr: 4-Bromofluorobenzene                       | 98.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 9:27:52 AM   |
| Surr: Dibromofluoromethane                       | 95.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 9:27:52 AM   |
| Surr: Toluene-d8                                 | 93.9   | 70-130 |      | %Rec  | 1  | 3/2/2023 9:27:52 AM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.7    |      | mg/Kg | 1  | 3/2/2023 9:27:52 AM   |
| Surr: BFB                                        | 102    | 70-130 |      | %Rec  | 1  | 3/2/2023 9:27:52 AM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-39 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:10:00 AM

**Lab ID:** 2302999-017

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | 11     | 9.0      |      | mg/Kg | 1  | 2/27/2023 11:33:01 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 2/27/2023 11:33:01 PM |
| Surr: DNOP                                       | 100    | 69-147   |      | %Rec  | 1  | 2/27/2023 11:33:01 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/27/2023 8:16:00 PM  |
| Surr: BFB                                        | 106    | 37.7-212 |      | %Rec  | 1  | 2/27/2023 8:16:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/27/2023 8:16:00 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/27/2023 8:16:00 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/27/2023 8:16:00 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 2/27/2023 8:16:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 96.7   | 70-130   |      | %Rec  | 1  | 2/27/2023 8:16:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/25/2023 6:38:57 PM  |

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

**Qualifiers:**

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-40 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:10:00 AM

**Lab ID:** 2302999-018

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 2/27/2023 11:46:56 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 2/27/2023 11:46:56 PM |
| Surr: DNOP                                       | 97.5   | 69-147   |      | %Rec  | 1  | 2/27/2023 11:46:56 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/27/2023 8:35:00 PM  |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 2/27/2023 8:35:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/27/2023 8:35:00 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/27/2023 8:35:00 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/27/2023 8:35:00 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 2/27/2023 8:35:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 96.2   | 70-130   |      | %Rec  | 1  | 2/27/2023 8:35:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/25/2023 6:51:21 PM  |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-41 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:15:00 AM

**Lab ID:** 2302999-019

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 2/28/2023 12:00:48 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/28/2023 12:00:48 AM |
| Surr: DNOP                                       | 100    | 69-147   |      | %Rec  | 1  | 2/28/2023 12:00:48 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/27/2023 8:55:00 PM  |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 2/27/2023 8:55:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/27/2023 8:55:00 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/27/2023 8:55:00 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/27/2023 8:55:00 PM  |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 2/27/2023 8:55:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 97.3   | 70-130   |      | %Rec  | 1  | 2/27/2023 8:55:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/25/2023 7:03:46 PM  |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-42 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:15:00 AM

**Lab ID:** 2302999-020

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.3    |      | mg/Kg | 1  | 2/28/2023 12:14:32 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46     |      | mg/Kg | 1  | 2/28/2023 12:14:32 AM |
| Surr: DNOP                                       | 97.8   | 69-147 |      | %Rec  | 1  | 2/28/2023 12:14:32 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 7:16:10 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 3/2/2023 3:06:12 PM   |
| Toluene                                          | ND     | 0.050  |      | mg/Kg | 1  | 3/2/2023 3:06:12 PM   |
| Ethylbenzene                                     | ND     | 0.050  |      | mg/Kg | 1  | 3/2/2023 3:06:12 PM   |
| Xylenes, Total                                   | ND     | 0.10   |      | mg/Kg | 1  | 3/2/2023 3:06:12 PM   |
| Surr: 1,2-Dichloroethane-d4                      | 89.9   | 70-130 |      | %Rec  | 1  | 3/2/2023 3:06:12 PM   |
| Surr: 4-Bromofluorobenzene                       | 97.8   | 70-130 |      | %Rec  | 1  | 3/2/2023 3:06:12 PM   |
| Surr: Dibromofluoromethane                       | 94.7   | 70-130 |      | %Rec  | 1  | 3/2/2023 3:06:12 PM   |
| Surr: Toluene-d8                                 | 96.2   | 70-130 |      | %Rec  | 1  | 3/2/2023 3:06:12 PM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 5.0    |      | mg/Kg | 1  | 3/2/2023 3:06:12 PM   |
| Surr: BFB                                        | 102    | 70-130 |      | %Rec  | 1  | 3/2/2023 3:06:12 PM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-43 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:20:00 AM

**Lab ID:** 2302999-021

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.9    |      | mg/Kg | 1  | 2/27/2023 10:57:10 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 45     |      | mg/Kg | 1  | 2/27/2023 10:57:10 PM |
| Surr: DNOP                                       | 90.0   | 69-147 |      | %Rec  | 1  | 2/27/2023 10:57:10 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 7:53:23 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/2/2023 4:27:35 PM   |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 4:27:35 PM   |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 4:27:35 PM   |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 3/2/2023 4:27:35 PM   |
| Surr: 1,2-Dichloroethane-d4                      | 99.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 4:27:35 PM   |
| Surr: 4-Bromofluorobenzene                       | 94.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 4:27:35 PM   |
| Surr: Dibromofluoromethane                       | 97.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 4:27:35 PM   |
| Surr: Toluene-d8                                 | 101    | 70-130 |      | %Rec  | 1  | 3/2/2023 4:27:35 PM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 3/2/2023 4:27:35 PM   |
| Surr: BFB                                        | 103    | 70-130 |      | %Rec  | 1  | 3/2/2023 4:27:35 PM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-44 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:20:00 AM

**Lab ID:** 2302999-022

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.0    |      | mg/Kg | 1  | 2/27/2023 11:29:05 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 45     |      | mg/Kg | 1  | 2/27/2023 11:29:05 PM |
| Surr: DNOP                                       | 88.4   | 69-147 |      | %Rec  | 1  | 2/27/2023 11:29:05 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 8:55:26 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/2/2023 5:49:08 PM   |
| Toluene                                          | ND     | 0.048  |      | mg/Kg | 1  | 3/2/2023 5:49:08 PM   |
| Ethylbenzene                                     | ND     | 0.048  |      | mg/Kg | 1  | 3/2/2023 5:49:08 PM   |
| Xylenes, Total                                   | ND     | 0.095  |      | mg/Kg | 1  | 3/2/2023 5:49:08 PM   |
| Surr: 1,2-Dichloroethane-d4                      | 95.4   | 70-130 |      | %Rec  | 1  | 3/2/2023 5:49:08 PM   |
| Surr: 4-Bromofluorobenzene                       | 93.3   | 70-130 |      | %Rec  | 1  | 3/2/2023 5:49:08 PM   |
| Surr: Dibromofluoromethane                       | 92.9   | 70-130 |      | %Rec  | 1  | 3/2/2023 5:49:08 PM   |
| Surr: Toluene-d8                                 | 97.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 5:49:08 PM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.8    |      | mg/Kg | 1  | 3/2/2023 5:49:08 PM   |
| Surr: BFB                                        | 103    | 70-130 |      | %Rec  | 1  | 3/2/2023 5:49:08 PM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: **3/7/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-45 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:25:00 AM

**Lab ID:** 2302999-023

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.9    |      | mg/Kg | 1  | 2/27/2023 11:39:39 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 44     |      | mg/Kg | 1  | 2/27/2023 11:39:39 PM |
| Surr: DNOP                                       | 85.1   | 69-147 |      | %Rec  | 1  | 2/27/2023 11:39:39 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 9:07:50 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/2/2023 6:16:19 PM   |
| Toluene                                          | ND     | 0.048  |      | mg/Kg | 1  | 3/2/2023 6:16:19 PM   |
| Ethylbenzene                                     | ND     | 0.048  |      | mg/Kg | 1  | 3/2/2023 6:16:19 PM   |
| Xylenes, Total                                   | ND     | 0.096  |      | mg/Kg | 1  | 3/2/2023 6:16:19 PM   |
| Surr: 1,2-Dichloroethane-d4                      | 91.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 6:16:19 PM   |
| Surr: 4-Bromofluorobenzene                       | 95.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 6:16:19 PM   |
| Surr: Dibromofluoromethane                       | 98.7   | 70-130 |      | %Rec  | 1  | 3/2/2023 6:16:19 PM   |
| Surr: Toluene-d8                                 | 101    | 70-130 |      | %Rec  | 1  | 3/2/2023 6:16:19 PM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.8    |      | mg/Kg | 1  | 3/2/2023 6:16:19 PM   |
| Surr: BFB                                        | 104    | 70-130 |      | %Rec  | 1  | 3/2/2023 6:16:19 PM   |

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

**Qualifiers:**

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-46 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:25:00 AM

**Lab ID:** 2302999-024

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.9    |      | mg/Kg | 1  | 2/27/2023 11:50:14 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 44     |      | mg/Kg | 1  | 2/27/2023 11:50:14 PM |
| Surr: DNOP                                       | 87.6   | 69-147 |      | %Rec  | 1  | 2/27/2023 11:50:14 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 59     |      | mg/Kg | 20 | 2/25/2023 9:20:14 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 3/2/2023 6:43:28 PM   |
| Toluene                                          | ND     | 0.050  |      | mg/Kg | 1  | 3/2/2023 6:43:28 PM   |
| Ethylbenzene                                     | ND     | 0.050  |      | mg/Kg | 1  | 3/2/2023 6:43:28 PM   |
| Xylenes, Total                                   | ND     | 0.10   |      | mg/Kg | 1  | 3/2/2023 6:43:28 PM   |
| Surr: 1,2-Dichloroethane-d4                      | 91.8   | 70-130 |      | %Rec  | 1  | 3/2/2023 6:43:28 PM   |
| Surr: 4-Bromofluorobenzene                       | 95.2   | 70-130 |      | %Rec  | 1  | 3/2/2023 6:43:28 PM   |
| Surr: Dibromofluoromethane                       | 95.3   | 70-130 |      | %Rec  | 1  | 3/2/2023 6:43:28 PM   |
| Surr: Toluene-d8                                 | 99.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 6:43:28 PM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 5.0    |      | mg/Kg | 1  | 3/2/2023 6:43:28 PM   |
| Surr: BFB                                        | 106    | 70-130 |      | %Rec  | 1  | 3/2/2023 6:43:28 PM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-47 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:30:00 AM

**Lab ID:** 2302999-025

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed       |
|--------------------------------------------------|--------|--------|------|-------|----|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>JME</b> |
| Diesel Range Organics (DRO)                      | 250    | 50     |      | mg/Kg | 5  | 3/2/2023 3:08:12 PM |
| Motor Oil Range Organics (MRO)                   | 420    | 250    |      | mg/Kg | 5  | 3/2/2023 3:08:12 PM |
| Surr: DNOP                                       | 99.7   | 69-147 |      | %Rec  | 5  | 3/2/2023 3:08:12 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>CAS</b> |
| Chloride                                         | 270    | 60     |      | mg/Kg | 20 | 3/1/2023 3:33:24 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>  |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 3/2/2023 7:10:34 PM |
| Toluene                                          | ND     | 0.050  |      | mg/Kg | 1  | 3/2/2023 7:10:34 PM |
| Ethylbenzene                                     | ND     | 0.050  |      | mg/Kg | 1  | 3/2/2023 7:10:34 PM |
| Xylenes, Total                                   | ND     | 0.10   |      | mg/Kg | 1  | 3/2/2023 7:10:34 PM |
| Surr: 1,2-Dichloroethane-d4                      | 92.5   | 70-130 |      | %Rec  | 1  | 3/2/2023 7:10:34 PM |
| Surr: 4-Bromofluorobenzene                       | 96.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 7:10:34 PM |
| Surr: Dibromofluoromethane                       | 95.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 7:10:34 PM |
| Surr: Toluene-d8                                 | 99.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 7:10:34 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 5.0    |      | mg/Kg | 1  | 3/2/2023 7:10:34 PM |
| Surr: BFB                                        | 103    | 70-130 |      | %Rec  | 1  | 3/2/2023 7:10:34 PM |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-48 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:30:00 AM

**Lab ID:** 2302999-026

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.5    |      | mg/Kg | 1  | 2/28/2023 12:00:48 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 42     |      | mg/Kg | 1  | 2/28/2023 12:00:48 AM |
| Surr: DNOP                                       | 90.7   | 69-147 |      | %Rec  | 1  | 2/28/2023 12:00:48 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 9:45:03 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/2/2023 7:37:43 PM   |
| Toluene                                          | ND     | 0.047  |      | mg/Kg | 1  | 3/2/2023 7:37:43 PM   |
| Ethylbenzene                                     | ND     | 0.047  |      | mg/Kg | 1  | 3/2/2023 7:37:43 PM   |
| Xylenes, Total                                   | ND     | 0.095  |      | mg/Kg | 1  | 3/2/2023 7:37:43 PM   |
| Surr: 1,2-Dichloroethane-d4                      | 90.3   | 70-130 |      | %Rec  | 1  | 3/2/2023 7:37:43 PM   |
| Surr: 4-Bromofluorobenzene                       | 96.5   | 70-130 |      | %Rec  | 1  | 3/2/2023 7:37:43 PM   |
| Surr: Dibromofluoromethane                       | 92.9   | 70-130 |      | %Rec  | 1  | 3/2/2023 7:37:43 PM   |
| Surr: Toluene-d8                                 | 96.7   | 70-130 |      | %Rec  | 1  | 3/2/2023 7:37:43 PM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.7    |      | mg/Kg | 1  | 3/2/2023 7:37:43 PM   |
| Surr: BFB                                        | 103    | 70-130 |      | %Rec  | 1  | 3/2/2023 7:37:43 PM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-49 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:35:00 AM

**Lab ID:** 2302999-027

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.5    |      | mg/Kg | 1  | 2/28/2023 12:11:22 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 43     |      | mg/Kg | 1  | 2/28/2023 12:11:22 AM |
| Surr: DNOP                                       | 115    | 69-147 |      | %Rec  | 1  | 2/28/2023 12:11:22 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 9:57:27 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/2/2023 8:04:56 PM   |
| Toluene                                          | ND     | 0.047  |      | mg/Kg | 1  | 3/2/2023 8:04:56 PM   |
| Ethylbenzene                                     | ND     | 0.047  |      | mg/Kg | 1  | 3/2/2023 8:04:56 PM   |
| Xylenes, Total                                   | ND     | 0.095  |      | mg/Kg | 1  | 3/2/2023 8:04:56 PM   |
| Surr: 1,2-Dichloroethane-d4                      | 95.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:04:56 PM   |
| Surr: 4-Bromofluorobenzene                       | 96.5   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:04:56 PM   |
| Surr: Dibromofluoromethane                       | 96.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:04:56 PM   |
| Surr: Toluene-d8                                 | 97.5   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:04:56 PM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.7    |      | mg/Kg | 1  | 3/2/2023 8:04:56 PM   |
| Surr: BFB                                        | 101    | 70-130 |      | %Rec  | 1  | 3/2/2023 8:04:56 PM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-50 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:35:00 AM

**Lab ID:** 2302999-028

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | 25     | 9.0    |      | mg/Kg | 1  | 2/28/2023 12:21:59 AM |
| Motor Oil Range Organics (MRO)                   | 74     | 45     |      | mg/Kg | 1  | 2/28/2023 12:21:59 AM |
| Surr: DNOP                                       | 99.6   | 69-147 |      | %Rec  | 1  | 2/28/2023 12:21:59 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 10:09:51 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/2/2023 8:32:07 PM   |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 8:32:07 PM   |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 8:32:07 PM   |
| Xylenes, Total                                   | ND     | 0.097  |      | mg/Kg | 1  | 3/2/2023 8:32:07 PM   |
| Surr: 1,2-Dichloroethane-d4                      | 91.7   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:32:07 PM   |
| Surr: 4-Bromofluorobenzene                       | 95.9   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:32:07 PM   |
| Surr: Dibromofluoromethane                       | 95.4   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:32:07 PM   |
| Surr: Toluene-d8                                 | 96.4   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:32:07 PM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 3/2/2023 8:32:07 PM   |
| Surr: BFB                                        | 103    | 70-130 |      | %Rec  | 1  | 3/2/2023 8:32:07 PM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: **3/7/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-51 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:40:00 AM

**Lab ID:** 2302999-029

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.4    |      | mg/Kg | 1  | 2/28/2023 12:53:34 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 47     |      | mg/Kg | 1  | 2/28/2023 12:53:34 AM |
| Surr: DNOP                                       | 90.4   | 69-147 |      | %Rec  | 1  | 2/28/2023 12:53:34 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 10:22:15 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 3/2/2023 8:59:17 PM   |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 8:59:17 PM   |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 8:59:17 PM   |
| Xylenes, Total                                   | ND     | 0.099  |      | mg/Kg | 1  | 3/2/2023 8:59:17 PM   |
| Surr: 1,2-Dichloroethane-d4                      | 100    | 70-130 |      | %Rec  | 1  | 3/2/2023 8:59:17 PM   |
| Surr: 4-Bromofluorobenzene                       | 94.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:59:17 PM   |
| Surr: Dibromofluoromethane                       | 99.9   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:59:17 PM   |
| Surr: Toluene-d8                                 | 97.3   | 70-130 |      | %Rec  | 1  | 3/2/2023 8:59:17 PM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 3/2/2023 8:59:17 PM   |
| Surr: BFB                                        | 103    | 70-130 |      | %Rec  | 1  | 3/2/2023 8:59:17 PM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-52 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:40:00 AM

**Lab ID:** 2302999-030

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>  |
| Diesel Range Organics (DRO)                      | 39     | 9.3    |      | mg/Kg | 1  | 2/28/2023 1:14:32 AM |
| Motor Oil Range Organics (MRO)                   | 120    | 47     |      | mg/Kg | 1  | 2/28/2023 1:14:32 AM |
| Surr: DNOP                                       | 99.0   | 69-147 |      | %Rec  | 1  | 2/28/2023 1:14:32 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 220    | 60     |      | mg/Kg | 20 | 3/1/2023 3:45:43 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>   |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/2/2023 9:26:27 PM  |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 9:26:27 PM  |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 9:26:27 PM  |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 3/2/2023 9:26:27 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 96.4   | 70-130 |      | %Rec  | 1  | 3/2/2023 9:26:27 PM  |
| Surr: 4-Bromofluorobenzene                       | 96.8   | 70-130 |      | %Rec  | 1  | 3/2/2023 9:26:27 PM  |
| Surr: Dibromofluoromethane                       | 96.5   | 70-130 |      | %Rec  | 1  | 3/2/2023 9:26:27 PM  |
| Surr: Toluene-d8                                 | 99.7   | 70-130 |      | %Rec  | 1  | 3/2/2023 9:26:27 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 3/2/2023 9:26:27 PM  |
| Surr: BFB                                        | 109    | 70-130 |      | %Rec  | 1  | 3/2/2023 9:26:27 PM  |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-53 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:45:00 AM

**Lab ID:** 2302999-031

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.1    |      | mg/Kg | 1  | 2/28/2023 1:45:41 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46     |      | mg/Kg | 1  | 2/28/2023 1:45:41 AM  |
| Surr: DNOP                                       | 93.8   | 69-147 |      | %Rec  | 1  | 2/28/2023 1:45:41 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 10:47:04 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 3/2/2023 9:53:37 PM   |
| Toluene                                          | ND     | 0.050  |      | mg/Kg | 1  | 3/2/2023 9:53:37 PM   |
| Ethylbenzene                                     | ND     | 0.050  |      | mg/Kg | 1  | 3/2/2023 9:53:37 PM   |
| Xylenes, Total                                   | ND     | 0.099  |      | mg/Kg | 1  | 3/2/2023 9:53:37 PM   |
| Surr: 1,2-Dichloroethane-d4                      | 93.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 9:53:37 PM   |
| Surr: 4-Bromofluorobenzene                       | 94.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 9:53:37 PM   |
| Surr: Dibromofluoromethane                       | 95.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 9:53:37 PM   |
| Surr: Toluene-d8                                 | 97.2   | 70-130 |      | %Rec  | 1  | 3/2/2023 9:53:37 PM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 5.0    |      | mg/Kg | 1  | 3/2/2023 9:53:37 PM   |
| Surr: BFB                                        | 102    | 70-130 |      | %Rec  | 1  | 3/2/2023 9:53:37 PM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-54 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:45:00 AM

**Lab ID:** 2302999-032

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.8    |      | mg/Kg | 1  | 2/28/2023 1:56:03 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 44     |      | mg/Kg | 1  | 2/28/2023 1:56:03 AM  |
| Surr: DNOP                                       | 95.9   | 69-147 |      | %Rec  | 1  | 2/28/2023 1:56:03 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 11:24:18 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/2/2023 10:20:46 PM  |
| Toluene                                          | ND     | 0.048  |      | mg/Kg | 1  | 3/2/2023 10:20:46 PM  |
| Ethylbenzene                                     | ND     | 0.048  |      | mg/Kg | 1  | 3/2/2023 10:20:46 PM  |
| Xylenes, Total                                   | ND     | 0.096  |      | mg/Kg | 1  | 3/2/2023 10:20:46 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 87.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 10:20:46 PM  |
| Surr: 4-Bromofluorobenzene                       | 95.4   | 70-130 |      | %Rec  | 1  | 3/2/2023 10:20:46 PM  |
| Surr: Dibromofluoromethane                       | 92.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 10:20:46 PM  |
| Surr: Toluene-d8                                 | 95.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 10:20:46 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.8    |      | mg/Kg | 1  | 3/2/2023 10:20:46 PM  |
| Surr: BFB                                        | 104    | 70-130 |      | %Rec  | 1  | 3/2/2023 10:20:46 PM  |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: **3/7/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-55 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:50:00 AM

**Lab ID:** 2302999-033

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.8    |      | mg/Kg | 1  | 2/28/2023 2:06:22 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49     |      | mg/Kg | 1  | 2/28/2023 2:06:22 AM  |
| Surr: DNOP                                       | 95.1   | 69-147 |      | %Rec  | 1  | 2/28/2023 2:06:22 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 11:36:43 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 3/2/2023 10:47:54 PM  |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 10:47:54 PM  |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 10:47:54 PM  |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 3/2/2023 10:47:54 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 92.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 10:47:54 PM  |
| Surr: 4-Bromofluorobenzene                       | 93.7   | 70-130 |      | %Rec  | 1  | 3/2/2023 10:47:54 PM  |
| Surr: Dibromofluoromethane                       | 93.4   | 70-130 |      | %Rec  | 1  | 3/2/2023 10:47:54 PM  |
| Surr: Toluene-d8                                 | 97.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 10:47:54 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 3/2/2023 10:47:54 PM  |
| Surr: BFB                                        | 103    | 70-130 |      | %Rec  | 1  | 3/2/2023 10:47:54 PM  |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-56 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:50:00 AM

**Lab ID:** 2302999-034

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.6    |      | mg/Kg | 1  | 2/28/2023 2:16:41 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48     |      | mg/Kg | 1  | 2/28/2023 2:16:41 AM  |
| Surr: DNOP                                       | 94.5   | 69-147 |      | %Rec  | 1  | 2/28/2023 2:16:41 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/25/2023 11:49:07 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 3/2/2023 11:15:03 PM  |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 11:15:03 PM  |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 3/2/2023 11:15:03 PM  |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 3/2/2023 11:15:03 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 97.4   | 70-130 |      | %Rec  | 1  | 3/2/2023 11:15:03 PM  |
| Surr: 4-Bromofluorobenzene                       | 98.6   | 70-130 |      | %Rec  | 1  | 3/2/2023 11:15:03 PM  |
| Surr: Dibromofluoromethane                       | 94.1   | 70-130 |      | %Rec  | 1  | 3/2/2023 11:15:03 PM  |
| Surr: Toluene-d8                                 | 96.0   | 70-130 |      | %Rec  | 1  | 3/2/2023 11:15:03 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 3/2/2023 11:15:03 PM  |
| Surr: BFB                                        | 102    | 70-130 |      | %Rec  | 1  | 3/2/2023 11:15:03 PM  |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-57 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:55:00 AM

**Lab ID:** 2302999-035

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.7    |      | mg/Kg | 1  | 2/28/2023 2:27:00 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48     |      | mg/Kg | 1  | 2/28/2023 2:27:00 AM  |
| Surr: DNOP                                       | 96.0   | 69-147 |      | %Rec  | 1  | 2/28/2023 2:27:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/26/2023 12:01:32 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.023  |      | mg/Kg | 1  | 3/3/2023 1:57:31 AM   |
| Toluene                                          | ND     | 0.047  |      | mg/Kg | 1  | 3/3/2023 1:57:31 AM   |
| Ethylbenzene                                     | ND     | 0.047  |      | mg/Kg | 1  | 3/3/2023 1:57:31 AM   |
| Xylenes, Total                                   | ND     | 0.094  |      | mg/Kg | 1  | 3/3/2023 1:57:31 AM   |
| Surr: 1,2-Dichloroethane-d4                      | 95.9   | 70-130 |      | %Rec  | 1  | 3/3/2023 1:57:31 AM   |
| Surr: 4-Bromofluorobenzene                       | 94.7   | 70-130 |      | %Rec  | 1  | 3/3/2023 1:57:31 AM   |
| Surr: Dibromofluoromethane                       | 93.3   | 70-130 |      | %Rec  | 1  | 3/3/2023 1:57:31 AM   |
| Surr: Toluene-d8                                 | 96.0   | 70-130 |      | %Rec  | 1  | 3/3/2023 1:57:31 AM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.7    |      | mg/Kg | 1  | 3/3/2023 1:57:31 AM   |
| Surr: BFB                                        | 104    | 70-130 |      | %Rec  | 1  | 3/3/2023 1:57:31 AM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-58 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 10:55:00 AM

**Lab ID:** 2302999-036

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.2    |      | mg/Kg | 1  | 2/28/2023 2:37:20 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46     |      | mg/Kg | 1  | 2/28/2023 2:37:20 AM  |
| Surr: DNOP                                       | 99.4   | 69-147 |      | %Rec  | 1  | 2/28/2023 2:37:20 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/26/2023 12:13:56 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/3/2023 2:24:35 AM   |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 3/3/2023 2:24:35 AM   |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 3/3/2023 2:24:35 AM   |
| Xylenes, Total                                   | ND     | 0.098  |      | mg/Kg | 1  | 3/3/2023 2:24:35 AM   |
| Surr: 1,2-Dichloroethane-d4                      | 93.4   | 70-130 |      | %Rec  | 1  | 3/3/2023 2:24:35 AM   |
| Surr: 4-Bromofluorobenzene                       | 98.2   | 70-130 |      | %Rec  | 1  | 3/3/2023 2:24:35 AM   |
| Surr: Dibromofluoromethane                       | 96.0   | 70-130 |      | %Rec  | 1  | 3/3/2023 2:24:35 AM   |
| Surr: Toluene-d8                                 | 98.4   | 70-130 |      | %Rec  | 1  | 3/3/2023 2:24:35 AM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 3/3/2023 2:24:35 AM   |
| Surr: BFB                                        | 105    | 70-130 |      | %Rec  | 1  | 3/3/2023 2:24:35 AM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-59 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 11:00:00 AM

**Lab ID:** 2302999-037

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.2    |      | mg/Kg | 1  | 2/28/2023 2:47:40 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46     |      | mg/Kg | 1  | 2/28/2023 2:47:40 AM  |
| Surr: DNOP                                       | 102    | 69-147 |      | %Rec  | 1  | 2/28/2023 2:47:40 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/26/2023 12:26:21 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/3/2023 2:51:36 AM   |
| Toluene                                          | ND     | 0.047  |      | mg/Kg | 1  | 3/3/2023 2:51:36 AM   |
| Ethylbenzene                                     | ND     | 0.047  |      | mg/Kg | 1  | 3/3/2023 2:51:36 AM   |
| Xylenes, Total                                   | ND     | 0.095  |      | mg/Kg | 1  | 3/3/2023 2:51:36 AM   |
| Surr: 1,2-Dichloroethane-d4                      | 98.2   | 70-130 |      | %Rec  | 1  | 3/3/2023 2:51:36 AM   |
| Surr: 4-Bromofluorobenzene                       | 99.4   | 70-130 |      | %Rec  | 1  | 3/3/2023 2:51:36 AM   |
| Surr: Dibromofluoromethane                       | 95.2   | 70-130 |      | %Rec  | 1  | 3/3/2023 2:51:36 AM   |
| Surr: Toluene-d8                                 | 96.7   | 70-130 |      | %Rec  | 1  | 3/3/2023 2:51:36 AM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.7    |      | mg/Kg | 1  | 3/3/2023 2:51:36 AM   |
| Surr: BFB                                        | 106    | 70-130 |      | %Rec  | 1  | 3/3/2023 2:51:36 AM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-60 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 11:00:00 AM

**Lab ID:** 2302999-038

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.4    |      | mg/Kg | 1  | 2/28/2023 2:58:01 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47     |      | mg/Kg | 1  | 2/28/2023 2:58:01 AM  |
| Surr: DNOP                                       | 101    | 69-147 |      | %Rec  | 1  | 2/28/2023 2:58:01 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/26/2023 12:38:46 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/3/2023 3:18:37 AM   |
| Toluene                                          | ND     | 0.048  |      | mg/Kg | 1  | 3/3/2023 3:18:37 AM   |
| Ethylbenzene                                     | ND     | 0.048  |      | mg/Kg | 1  | 3/3/2023 3:18:37 AM   |
| Xylenes, Total                                   | ND     | 0.095  |      | mg/Kg | 1  | 3/3/2023 3:18:37 AM   |
| Surr: 1,2-Dichloroethane-d4                      | 97.6   | 70-130 |      | %Rec  | 1  | 3/3/2023 3:18:37 AM   |
| Surr: 4-Bromofluorobenzene                       | 94.5   | 70-130 |      | %Rec  | 1  | 3/3/2023 3:18:37 AM   |
| Surr: Dibromofluoromethane                       | 93.4   | 70-130 |      | %Rec  | 1  | 3/3/2023 3:18:37 AM   |
| Surr: Toluene-d8                                 | 98.0   | 70-130 |      | %Rec  | 1  | 3/3/2023 3:18:37 AM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.8    |      | mg/Kg | 1  | 3/3/2023 3:18:37 AM   |
| Surr: BFB                                        | 100    | 70-130 |      | %Rec  | 1  | 3/3/2023 3:18:37 AM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-61 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 11:05:00 AM

**Lab ID:** 2302999-039

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.3    |      | mg/Kg | 1  | 2/28/2023 3:08:24 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47     |      | mg/Kg | 1  | 2/28/2023 3:08:24 AM  |
| Surr: DNOP                                       | 91.6   | 69-147 |      | %Rec  | 1  | 2/28/2023 3:08:24 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 2/26/2023 12:51:11 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: <b>JR</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 3/3/2023 3:45:37 AM   |
| Toluene                                          | ND     | 0.048  |      | mg/Kg | 1  | 3/3/2023 3:45:37 AM   |
| Ethylbenzene                                     | ND     | 0.048  |      | mg/Kg | 1  | 3/3/2023 3:45:37 AM   |
| Xylenes, Total                                   | ND     | 0.095  |      | mg/Kg | 1  | 3/3/2023 3:45:37 AM   |
| Surr: 1,2-Dichloroethane-d4                      | 101    | 70-130 |      | %Rec  | 1  | 3/3/2023 3:45:37 AM   |
| Surr: 4-Bromofluorobenzene                       | 95.3   | 70-130 |      | %Rec  | 1  | 3/3/2023 3:45:37 AM   |
| Surr: Dibromofluoromethane                       | 94.7   | 70-130 |      | %Rec  | 1  | 3/3/2023 3:45:37 AM   |
| Surr: Toluene-d8                                 | 95.4   | 70-130 |      | %Rec  | 1  | 3/3/2023 3:45:37 AM   |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: <b>JR</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.8    |      | mg/Kg | 1  | 3/3/2023 3:45:37 AM   |
| Surr: BFB                                        | 102    | 70-130 |      | %Rec  | 1  | 3/3/2023 3:45:37 AM   |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-62 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 11:05:00 AM

**Lab ID:** 2302999-040

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 2/28/2023 3:18:48 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 2/28/2023 3:18:48 AM  |
| Surr: DNOP                                       | 96.7   | 69-147   |      | %Rec  | 1  | 2/28/2023 3:18:48 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/28/2023 7:16:26 PM  |
| Surr: BFB                                        | 97.6   | 37.7-212 |      | %Rec  | 1  | 2/28/2023 7:16:26 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/28/2023 7:16:26 PM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/28/2023 7:16:26 PM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/28/2023 7:16:26 PM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/28/2023 7:16:26 PM  |
| Surr: 4-Bromofluorobenzene                       | 89.0   | 70-130   |      | %Rec  | 1  | 2/28/2023 7:16:26 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/27/2023 10:06:11 PM |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-63 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 11:10:00 AM

**Lab ID:** 2302999-041

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 2/28/2023 5:04:44 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 2/28/2023 5:04:44 AM  |
| Surr: DNOP                                       | 91.2   | 69-147   |      | %Rec  | 1  | 2/28/2023 5:04:44 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/28/2023 8:26:51 PM  |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 8:26:51 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 8:26:51 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 8:26:51 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 8:26:51 PM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 2/28/2023 8:26:51 PM  |
| Surr: 4-Bromofluorobenzene                       | 94.7   | 70-130   |      | %Rec  | 1  | 2/28/2023 8:26:51 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/27/2023 10:18:35 PM |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-64 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 11:10:00 AM

**Lab ID:** 2302999-042

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.4      |      | mg/Kg | 1  | 2/28/2023 5:15:21 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/28/2023 5:15:21 AM  |
| Surr: DNOP                                       | 87.6   | 69-147   |      | %Rec  | 1  | 2/28/2023 5:15:21 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/28/2023 9:37:28 PM  |
| Surr: BFB                                        | 100    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 9:37:28 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 9:37:28 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 9:37:28 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 9:37:28 PM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 2/28/2023 9:37:28 PM  |
| Surr: 4-Bromofluorobenzene                       | 92.7   | 70-130   |      | %Rec  | 1  | 2/28/2023 9:37:28 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/27/2023 10:31:00 PM |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-65 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 11:15:00 AM

**Lab ID:** 2302999-043

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 2/28/2023 5:26:02 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/28/2023 5:26:02 AM  |
| Surr: DNOP                                       | 89.2   | 69-147   |      | %Rec  | 1  | 2/28/2023 5:26:02 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/28/2023 10:00:51 PM |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 10:00:51 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/28/2023 10:00:51 PM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/28/2023 10:00:51 PM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/28/2023 10:00:51 PM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 2/28/2023 10:00:51 PM |
| Surr: 4-Bromofluorobenzene                       | 95.1   | 70-130   |      | %Rec  | 1  | 2/28/2023 10:00:51 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 61       |      | mg/Kg | 20 | 2/27/2023 10:43:25 PM |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-66 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 11:15:00 AM

**Lab ID:** 2302999-044

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 3/1/2023 7:47:06 PM   |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 3/1/2023 7:47:06 PM   |
| Surr: DNOP                                       | 89.0   | 69-147   |      | %Rec  | 1  | 3/1/2023 7:47:06 PM   |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/28/2023 10:24:21 PM |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 10:24:21 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/28/2023 10:24:21 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 10:24:21 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 10:24:21 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/28/2023 10:24:21 PM |
| Surr: 4-Bromofluorobenzene                       | 94.0   | 70-130   |      | %Rec  | 1  | 2/28/2023 10:24:21 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/27/2023 10:55:49 PM |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-67 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 11:20:00 AM

**Lab ID:** 2302999-045

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.0      |      | mg/Kg | 1  | 3/1/2023 8:26:55 PM   |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 3/1/2023 8:26:55 PM   |
| Surr: DNOP                                       | 107    | 69-147   |      | %Rec  | 1  | 3/1/2023 8:26:55 PM   |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/28/2023 10:47:53 PM |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 10:47:53 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 10:47:53 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 10:47:53 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 10:47:53 PM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 2/28/2023 10:47:53 PM |
| Surr: 4-Bromofluorobenzene                       | 92.5   | 70-130   |      | %Rec  | 1  | 2/28/2023 10:47:53 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/28/2023 10:23:01 AM |

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

**Qualifiers:**

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-68 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 11:20:00 AM

**Lab ID:** 2302999-046

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.1      |      | mg/Kg | 1  | 3/1/2023 8:41:09 PM   |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 3/1/2023 8:41:09 PM   |
| Surr: DNOP                                       | 97.2   | 69-147   |      | %Rec  | 1  | 3/1/2023 8:41:09 PM   |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/28/2023 11:11:28 PM |
| Surr: BFB                                        | 99.6   | 37.7-212 |      | %Rec  | 1  | 2/28/2023 11:11:28 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 11:11:28 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 11:11:28 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 11:11:28 PM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 2/28/2023 11:11:28 PM |
| Surr: 4-Bromofluorobenzene                       | 90.5   | 70-130   |      | %Rec  | 1  | 2/28/2023 11:11:28 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/28/2023 11:00:13 AM |

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

**Qualifiers:**

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-69 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 11:25:00 AM

**Lab ID:** 2302999-047

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.8      |      | mg/Kg | 1  | 3/1/2023 8:55:24 PM   |
| Motor Oil Range Organics (MRO)                   | ND     | 44       |      | mg/Kg | 1  | 3/1/2023 8:55:24 PM   |
| Surr: DNOP                                       | 96.5   | 69-147   |      | %Rec  | 1  | 3/1/2023 8:55:24 PM   |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/28/2023 11:35:06 PM |
| Surr: BFB                                        | 100    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 11:35:06 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/28/2023 11:35:06 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 11:35:06 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 11:35:06 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/28/2023 11:35:06 PM |
| Surr: 4-Bromofluorobenzene                       | 91.3   | 70-130   |      | %Rec  | 1  | 2/28/2023 11:35:06 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/28/2023 12:02:15 PM |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-70 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 11:25:00 AM

**Lab ID:** 2302999-048

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 3/3/2023 11:26:14 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 3/3/2023 11:26:14 AM  |
| Surr: DNOP                                       | 94.0   | 69-147   |      | %Rec  | 1  | 3/3/2023 11:26:14 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/28/2023 11:58:40 PM |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 11:58:40 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 11:58:40 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 11:58:40 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 11:58:40 PM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 2/28/2023 11:58:40 PM |
| Surr: 4-Bromofluorobenzene                       | 92.2   | 70-130   |      | %Rec  | 1  | 2/28/2023 11:58:40 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/28/2023 12:14:40 PM |

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

**Qualifiers:**

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-71 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 11:30:00 AM

**Lab ID:** 2302999-049

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.3      |      | mg/Kg | 1  | 3/1/2023 9:23:15 PM   |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 3/1/2023 9:23:15 PM   |
| Surr: DNOP                                       | 92.5   | 69-147   |      | %Rec  | 1  | 3/1/2023 9:23:15 PM   |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 3/1/2023 12:22:16 AM  |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 3/1/2023 12:22:16 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/1/2023 12:22:16 AM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 3/1/2023 12:22:16 AM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 3/1/2023 12:22:16 AM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 3/1/2023 12:22:16 AM  |
| Surr: 4-Bromofluorobenzene                       | 93.3   | 70-130   |      | %Rec  | 1  | 3/1/2023 12:22:16 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/28/2023 12:27:04 PM |

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

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

**Analytical Report**

Lab Order **2302999**

Date Reported: 3/7/2023

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-72 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 2/20/2023 11:30:00 AM

**Lab ID:** 2302999-050

**Matrix:** SOIL

**Received Date:** 2/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>DGH</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.3      |      | mg/Kg | 1  | 3/1/2023 9:37:09 PM   |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 3/1/2023 9:37:09 PM   |
| Surr: DNOP                                       | 101    | 69-147   |      | %Rec  | 1  | 3/1/2023 9:37:09 PM   |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 3/1/2023 1:09:23 AM   |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 3/1/2023 1:09:23 AM   |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/1/2023 1:09:23 AM   |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 3/1/2023 1:09:23 AM   |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 3/1/2023 1:09:23 AM   |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 3/1/2023 1:09:23 AM   |
| Surr: 4-Bromofluorobenzene                       | 93.1   | 70-130   |      | %Rec  | 1  | 3/1/2023 1:09:23 AM   |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/28/2023 12:39:29 PM |

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302999

07-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>MB-73384</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>73384</b>          | RunNo: <b>94885</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/25/2023</b> | Analysis Date: <b>2/25/2023</b> | SeqNo: <b>3429588</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-73384</b> | SampType: <b>ics</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73384</b>          | RunNo: <b>94885</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/25/2023</b> | Analysis Date: <b>2/25/2023</b> | SeqNo: <b>3429589</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 94.8 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-73385</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>73385</b>          | RunNo: <b>94885</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/25/2023</b> | Analysis Date: <b>2/25/2023</b> | SeqNo: <b>3429590</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-73385</b> | SampType: <b>ics</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73385</b>          | RunNo: <b>94885</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/25/2023</b> | Analysis Date: <b>2/25/2023</b> | SeqNo: <b>3429591</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 93.5 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-73405</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>73405</b>          | RunNo: <b>94908</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/27/2023</b> | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3431077</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-73405</b> | SampType: <b>ics</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73405</b>          | RunNo: <b>94908</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/27/2023</b> | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3431078</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 92.7 | 90       | 110       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302999

07-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>LCS-73413</b> | SampType: <b>lcs</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73413</b>          | RunNo: <b>94937</b>                       |           |             |                     |          |           |      |          |      |
| Prep Date: <b>2/28/2023</b> | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3432174</b>                     |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00     | 0           | 93.0                | 90       | 110       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302999

07-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>LCS-73356</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73356</b>          | RunNo: <b>94894</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b> | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3430271</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 42                              | 10                                                         | 50.00               | 0           | 85.0 | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 4.2                             |                                                            | 5.000               |             | 83.2 | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-73375</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73375</b>          | RunNo: <b>94894</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3430272</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 46                              | 10                                                         | 50.00               | 0           | 92.3 | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 4.8                             |                                                            | 5.000               |             | 96.2 | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-73381</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73381</b>          | RunNo: <b>94894</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3430275</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 42                              | 10                                                         | 50.00               | 0           | 84.7 | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 4.7                             |                                                            | 5.000               |             | 93.1 | 69       | 147       |      |          |      |

| Sample ID: <b>MB-73356</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>73356</b>          | RunNo: <b>94894</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b>    | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3430277</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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                     | 8.1                             |                                                            | 10.00               |             | 81.4 | 69       | 147       |      |          |      |

| Sample ID: <b>MB-73375</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>73375</b>          | RunNo: <b>94894</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>    | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3430278</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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                     | 10                              |                                                            | 10.00               |             | 103  | 69       | 147       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302999

07-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>MB-73381</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>73381</b>          | RunNo: <b>94894</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>    | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3430281</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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                     | 9.2                             |                                                            | 10.00               |             | 91.7 | 69       | 147       |      |          |      |

| Sample ID: <b>2302999-021AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-43 0'</b>     | Batch ID: <b>73375</b>          | RunNo: <b>94894</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>      | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3431142</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 37                              | 9.0                                                        | 44.96               | 0           | 82.8 | 54.2     | 135       |      |          |      |
| Surr: DNOP                       | 3.7                             |                                                            | 4.496               |             | 83.2 | 69       | 147       |      |          |      |

| Sample ID: <b>2302999-021AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-43 0'</b>      | Batch ID: <b>73375</b>          | RunNo: <b>94894</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>       | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3431143</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 38                              | 8.9                                                        | 44.56               | 0           | 84.9 | 54.2     | 135       | 1.58 | 29.2     |      |
| Surr: DNOP                        | 3.8                             |                                                            | 4.456               |             | 85.2 | 69       | 147       | 0    | 0        |      |

| Sample ID: <b>LCS-73400</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73400</b>          | RunNo: <b>94924</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/27/2023</b> | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3431562</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 45                              | 10                                                         | 50.00               | 0           | 89.5 | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 4.3                             |                                                            | 5.000               |             | 86.1 | 69       | 147       |      |          |      |

| Sample ID: <b>MB-73400</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>73400</b>          | RunNo: <b>94924</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/27/2023</b>    | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3431563</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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                     | 8.3                             |                                                            | 10.00               |             | 83.2 | 69       | 147       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302999

07-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>2302999-001AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-23 0'</b>     | Batch ID: <b>73356</b>          | RunNo: <b>94957</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b>      | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3433149</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 41                              | 9.4                                                        | 46.82               | 0           | 87.0 | 54.2     | 135       |      |          |      |
| Surr: DNOP                       | 4.6                             |                                                            | 4.682               |             | 99.3 | 69       | 147       |      |          |      |

| Sample ID: <b>2302999-001AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-23 0'</b>      | Batch ID: <b>73356</b>          | RunNo: <b>94957</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b>       | Analysis Date: <b>2/27/2023</b> | SeqNo: <b>3433150</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 42                              | 9.4                                                        | 47.21               | 0           | 89.2 | 54.2     | 135       | 3.36 | 29.2     |      |
| Surr: DNOP                        | 4.9                             |                                                            | 4.721               |             | 104  | 69       | 147       | 0    | 0        |      |

| Sample ID: <b>2302999-044AMS</b> | SampType: <b>MS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|--------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-66 0'</b>     | Batch ID: <b>73400</b>         | RunNo: <b>94954</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/27/2023</b>      | Analysis Date: <b>3/1/2023</b> | SeqNo: <b>3433974</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                         | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 44                             | 9.9                                                        | 49.50               | 0           | 88.8 | 54.2     | 135       |      |          |      |
| Surr: DNOP                       | 4.0                            |                                                            | 4.950               |             | 81.5 | 69       | 147       |      |          |      |

| Sample ID: <b>2302999-044AMSD</b> | SampType: <b>MSD</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|--------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-66 0'</b>      | Batch ID: <b>73400</b>         | RunNo: <b>94954</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/27/2023</b>       | Analysis Date: <b>3/1/2023</b> | SeqNo: <b>3433975</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                         | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 48                             | 9.8                                                        | 48.92               | 0           | 99.1 | 54.2     | 135       | 9.74 | 29.2     |      |
| Surr: DNOP                        | 4.5                            |                                                            | 4.892               |             | 92.8 | 69       | 147       | 0    | 0        |      |

| Sample ID: <b>MB-73474</b> | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|----------------------------|--------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>      | Batch ID: <b>73474</b>         | RunNo: <b>94965</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>3/2/2023</b> | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3434009</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                    | Result                         | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                 | 8.4                            |                                                            | 10.00              |             | 84.0 | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-73474</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73474</b>         | RunNo: <b>94965</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>3/2/2023</b>  | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3434010</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                         | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 4.5                            |                                                            | 5.000              |             | 90.1 | 69       | 147       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302999

07-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>MB-73456</b> | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|----------------------------|--------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>      | Batch ID: <b>73456</b>         | RunNo: <b>94965</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>3/1/2023</b> | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3434451</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                    | Result                         | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                 | 11                             |                                                            | 10.00              |             | 113  | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-73456</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73456</b>         | RunNo: <b>94965</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>3/1/2023</b>  | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3434452</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                         | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 5.0                            |                                                            | 5.000              |             | 100  | 69       | 147       |      |          |      |

**Qualifiers:**

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- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302999

07-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>Ics-73354</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>73354</b>          |     | RunNo: <b>94903</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b>   | Analysis Date: <b>2/27/2023</b> |     | SeqNo: <b>3430672</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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                 | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 2200                            |     | 1000                                              |             | 222                 | 37.7     | 212       |      |          | S    |

| Sample ID: <b>mb-73354</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>73354</b>          |     | RunNo: <b>94903</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b>   | Analysis Date: <b>2/27/2023</b> |     | SeqNo: <b>3430673</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0 |                                                   |             |                     |          |           |      |          |      |
| Surr: BFB                     | 1100                            |     | 1000                                              |             | 106                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>Ics-73369</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>73369</b>          |     | RunNo: <b>94910</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>   | Analysis Date: <b>2/28/2023</b> |     | SeqNo: <b>3431995</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24                              | 5.0 | 25.00                                             | 0           | 94.1                | 72.3     | 137       |      |          |      |
| Surr: BFB                     | 2000                            |     | 1000                                              |             | 198                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>mb-73369</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>73369</b>          |     | RunNo: <b>94910</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>   | Analysis Date: <b>2/28/2023</b> |     | SeqNo: <b>3431996</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>2302999-040ams</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|----------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-62 0'</b>     | Batch ID: <b>73369</b>          |     | RunNo: <b>94910</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>      | Analysis Date: <b>2/28/2023</b> |     | SeqNo: <b>3431998</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 23                              | 4.9 | 24.70                                             | 0           | 92.5                | 70       | 130       |      |          |      |
| Surr: BFB                        | 1900                            |     | 988.1                                             |             | 196                 | 37.7     | 212       |      |          |      |

| Sample ID: <b>2302999-040amsd</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-----------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-62 0'</b>      | Batch ID: <b>73369</b>          |     | RunNo: <b>94910</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>       | Analysis Date: <b>2/28/2023</b> |     | SeqNo: <b>3431999</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302999

07-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>2302999-040amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |                     |          |           |        |          |      |
|-----------------------------------|---------------------------------|---------------------------------------------------|-----------|-------------|---------------------|----------|-----------|--------|----------|------|
| Client ID: <b>BS23-62 0'</b>      | Batch ID: <b>73369</b>          | RunNo: <b>94910</b>                               |           |             |                     |          |           |        |          |      |
| Prep Date: <b>2/24/2023</b>       | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3431999</b>                             |           |             | Units: <b>mg/Kg</b> |          |           |        |          |      |
| Analyte                           | Result                          | PQL                                               | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD   | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 23                              | 5.0                                               | 24.78     | 0           | 92.3                | 70       | 130       | 0.0371 | 20       |      |
| Surr: BFB                         | 2000                            |                                                   | 991.1     |             | 198                 | 37.7     | 212       | 0      | 0        |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302999

07-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>ics-73354</b> | SampType: <b>LCS</b>            |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73354</b>          |       | RunNo: <b>94903</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b> | Analysis Date: <b>2/27/2023</b> |       | SeqNo: <b>3430697</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.96                            | 0.025 | 1.000                                        | 0           | 95.8                | 80       | 120       |      |          |      |
| Toluene                     | 0.96                            | 0.050 | 1.000                                        | 0           | 95.8                | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.97                            | 0.050 | 1.000                                        | 0           | 96.9                | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.9                             | 0.10  | 3.000                                        | 0           | 96.5                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.97                            |       | 1.000                                        |             | 96.8                | 70       | 130       |      |          |      |

| Sample ID: <b>mb-73354</b>  | SampType: <b>MBLK</b>           |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>73354</b>          |       | RunNo: <b>94903</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b> | Analysis Date: <b>2/27/2023</b> |       | SeqNo: <b>3430698</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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                                        |             | 100                 | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-73369</b> | SampType: <b>LCS</b>            |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73369</b>          |       | RunNo: <b>94910</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>2/28/2023</b> |       | SeqNo: <b>3432010</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.82                            | 0.025 | 1.000                                        | 0           | 81.9                | 80       | 120       |      |          |      |
| Toluene                     | 0.84                            | 0.050 | 1.000                                        | 0           | 83.9                | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.83                            | 0.050 | 1.000                                        | 0           | 83.2                | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.5                             | 0.10  | 3.000                                        | 0           | 83.0                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.93                            |       | 1.000                                        |             | 93.3                | 70       | 130       |      |          |      |

| Sample ID: <b>mb-73369</b>  | SampType: <b>MBLK</b>           |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>73369</b>          |       | RunNo: <b>94910</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>2/28/2023</b> |       | SeqNo: <b>3432011</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                              | 0.025 |                                              |             |                     |          |           |      |          |      |
| Toluene                     | ND                              | 0.050 |                                              |             |                     |          |           |      |          |      |
| Ethylbenzene                | ND                              | 0.050 |                                              |             |                     |          |           |      |          |      |
| Xylenes, Total              | ND                              | 0.10  |                                              |             |                     |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.92                            |       | 1.000                                        |             | 91.7                | 70       | 130       |      |          |      |

**Qualifiers:**

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- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302999

07-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>2302999-041ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-63 0'</b>     | Batch ID: <b>73369</b>          | RunNo: <b>94910</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>      | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3432014</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.83                            | 0.024                                        | 0.9515              | 0           | 86.8 | 68.8     | 120       |      |          |      |
| Toluene                          | 0.85                            | 0.048                                        | 0.9515              | 0.01703     | 87.6 | 73.6     | 124       |      |          |      |
| Ethylbenzene                     | 0.84                            | 0.048                                        | 0.9515              | 0           | 88.2 | 72.7     | 129       |      |          |      |
| Xylenes, Total                   | 2.5                             | 0.095                                        | 2.854               | 0           | 88.7 | 75.7     | 126       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.89                            |                                              | 0.9515              |             | 93.4 | 70       | 130       |      |          |      |

| Sample ID: <b>2302999-041amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-63 0'</b>      | Batch ID: <b>73369</b>          | RunNo: <b>94910</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>       | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3432015</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                           | 0.77                            | 0.024                                        | 0.9506              | 0           | 81.2 | 68.8     | 120       | 6.77 | 20       |      |
| Toluene                           | 0.80                            | 0.048                                        | 0.9506              | 0.01703     | 82.1 | 73.6     | 124       | 6.47 | 20       |      |
| Ethylbenzene                      | 0.79                            | 0.048                                        | 0.9506              | 0           | 83.3 | 72.7     | 129       | 5.80 | 20       |      |
| Xylenes, Total                    | 2.4                             | 0.095                                        | 2.852               | 0           | 83.3 | 75.7     | 126       | 6.38 | 20       |      |
| Surr: 4-Bromofluorobenzene        | 0.94                            |                                              | 0.9506              |             | 98.4 | 70       | 130       | 0    | 0        |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302999

07-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>2302999-002ams</b> | SampType: <b>MS4</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|--------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-24 0'</b>     | Batch ID: <b>73352</b>         | RunNo: <b>94969</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b>      | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3433629</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                         | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.90                           | 0.025                                                   | 0.9960              | 0           | 90.6 | 75.8     | 123       |      |          |      |
| Toluene                          | 0.98                           | 0.050                                                   | 0.9960              | 0           | 97.9 | 68.3     | 130       |      |          |      |
| Ethylbenzene                     | 1.0                            | 0.050                                                   | 0.9960              | 0           | 102  | 76.6     | 132       |      |          |      |
| Xylenes, Total                   | 3.0                            | 0.10                                                    | 2.988               | 0           | 100  | 74.7     | 132       |      |          |      |
| Surr: 1,2-Dichloroethane-d4      | 0.46                           |                                                         | 0.4980              |             | 92.7 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.48                           |                                                         | 0.4980              |             | 95.7 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane       | 0.47                           |                                                         | 0.4980              |             | 95.3 | 70       | 130       |      |          |      |
| Surr: Toluene-d8                 | 0.48                           |                                                         | 0.4980              |             | 96.7 | 70       | 130       |      |          |      |

| Sample ID: <b>2302999-002amsd</b> | SampType: <b>MSD4</b>          | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |       |          |      |
|-----------------------------------|--------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: <b>BS23-24 0'</b>      | Batch ID: <b>73352</b>         | RunNo: <b>94969</b>                                     |                     |             |      |          |           |       |          |      |
| Prep Date: <b>2/23/2023</b>       | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3433630</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |       |          |      |
| Analyte                           | Result                         | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Benzene                           | 1.0                            | 0.025                                                   | 0.9960              | 0           | 100  | 75.8     | 123       | 9.99  | 20       |      |
| Toluene                           | 1.0                            | 0.050                                                   | 0.9960              | 0           | 103  | 68.3     | 130       | 4.63  | 20       |      |
| Ethylbenzene                      | 1.0                            | 0.050                                                   | 0.9960              | 0           | 102  | 76.6     | 132       | 0.400 | 20       |      |
| Xylenes, Total                    | 3.1                            | 0.10                                                    | 2.988               | 0           | 105  | 74.7     | 132       | 4.49  | 20       |      |
| Surr: 1,2-Dichloroethane-d4       | 0.50                           |                                                         | 0.4980              |             | 99.9 | 70       | 130       | 0     | 0        |      |
| Surr: 4-Bromofluorobenzene        | 0.48                           |                                                         | 0.4980              |             | 95.5 | 70       | 130       | 0     | 0        |      |
| Surr: Dibromofluoromethane        | 0.50                           |                                                         | 0.4980              |             | 101  | 70       | 130       | 0     | 0        |      |
| Surr: Toluene-d8                  | 0.48                           |                                                         | 0.4980              |             | 97.1 | 70       | 130       | 0     | 0        |      |

| Sample ID: <b>Ics-73352</b> | SampType: <b>LCS4</b>          | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>   | Batch ID: <b>73352</b>         | RunNo: <b>94969</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b> | Analysis Date: <b>3/1/2023</b> | SeqNo: <b>3433645</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                         | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.93                           | 0.025                                                   | 1.000               | 0           | 92.9 | 80       | 120       |      |          |      |
| Toluene                     | 1.0                            | 0.050                                                   | 1.000               | 0           | 101  | 80       | 120       |      |          |      |
| Ethylbenzene                | 1.0                            | 0.050                                                   | 1.000               | 0           | 104  | 80       | 120       |      |          |      |
| Xylenes, Total              | 3.1                            | 0.10                                                    | 3.000               | 0           | 102  | 80       | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 0.48                           |                                                         | 0.5000              |             | 96.4 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.48                           |                                                         | 0.5000              |             | 96.3 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.47                           |                                                         | 0.5000              |             | 94.0 | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.48                           |                                                         | 0.5000              |             | 95.4 | 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 Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302999

07-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>mb-73352</b>  | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>73352</b>         | RunNo: <b>94969</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b> | Analysis Date: <b>3/1/2023</b> | SeqNo: <b>3433646</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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              |             | 98.1 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.49                           |                                                         | 0.5000              |             | 98.5 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.49                           |                                                         | 0.5000              |             | 98.1 | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.48                           |                                                         | 0.5000              |             | 96.2 | 70       | 130       |      |          |      |

| Sample ID: <b>2302999-021ams</b> | SampType: <b>MS4</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|--------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-43 0'</b>     | Batch ID: <b>73366</b>         | RunNo: <b>94998</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>      | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3435174</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                         | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.91                           | 0.024                                                   | 0.9785              | 0           | 93.1 | 75.8     | 123       |      |          |      |
| Toluene                          | 0.95                           | 0.049                                                   | 0.9785              | 0           | 97.1 | 68.3     | 130       |      |          |      |
| Ethylbenzene                     | 0.98                           | 0.049                                                   | 0.9785              | 0           | 100  | 76.6     | 132       |      |          |      |
| Xylenes, Total                   | 2.9                            | 0.098                                                   | 2.935               | 0           | 97.3 | 74.7     | 132       |      |          |      |
| Surr: 1,2-Dichloroethane-d4      | 0.48                           |                                                         | 0.4892              |             | 98.2 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.46                           |                                                         | 0.4892              |             | 93.3 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane       | 0.48                           |                                                         | 0.4892              |             | 98.6 | 70       | 130       |      |          |      |
| Surr: Toluene-d8                 | 0.48                           |                                                         | 0.4892              |             | 99.1 | 70       | 130       |      |          |      |

| Sample ID: <b>2302999-021amsd</b> | SampType: <b>MSD4</b>          | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|--------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-43 0'</b>      | Batch ID: <b>73366</b>         | RunNo: <b>94998</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>       | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3435175</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                         | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                           | 0.94                           | 0.024                                                   | 0.9775              | 0           | 96.6 | 75.8     | 123       | 3.56 | 20       |      |
| Toluene                           | 0.99                           | 0.049                                                   | 0.9775              | 0           | 102  | 68.3     | 130       | 4.57 | 20       |      |
| Ethylbenzene                      | 1.0                            | 0.049                                                   | 0.9775              | 0           | 103  | 76.6     | 132       | 2.61 | 20       |      |
| Xylenes, Total                    | 3.0                            | 0.098                                                   | 2.933               | 0           | 101  | 74.7     | 132       | 3.52 | 20       |      |
| Surr: 1,2-Dichloroethane-d4       | 0.47                           |                                                         | 0.4888              |             | 95.6 | 70       | 130       | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene        | 0.46                           |                                                         | 0.4888              |             | 94.1 | 70       | 130       | 0    | 0        |      |
| Surr: Dibromofluoromethane        | 0.49                           |                                                         | 0.4888              |             | 100  | 70       | 130       | 0    | 0        |      |
| Surr: Toluene-d8                  | 0.48                           |                                                         | 0.4888              |             | 98.9 | 70       | 130       | 0    | 0        |      |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302999

07-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>ics-73366</b> | SampType: <b>LCS4</b>          | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>   | Batch ID: <b>73366</b>         | RunNo: <b>94998</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3435194</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                         | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.84                           | 0.025                                                   | 1.000               | 0           | 84.4 | 80       | 120       |      |          |      |
| Toluene                     | 0.93                           | 0.050                                                   | 1.000               | 0           | 93.0 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.94                           | 0.050                                                   | 1.000               | 0           | 93.7 | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.8                            | 0.10                                                    | 3.000               | 0           | 92.7 | 80       | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 0.51                           |                                                         | 0.5000              |             | 102  | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.46                           |                                                         | 0.5000              |             | 92.1 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.48                           |                                                         | 0.5000              |             | 96.2 | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.50                           |                                                         | 0.5000              |             | 100  | 70       | 130       |      |          |      |

| Sample ID: <b>mb-73366</b>  | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>73366</b>         | RunNo: <b>94998</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3435195</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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 | 0.48                           |                                                         | 0.5000              |             | 96.0 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.48                           |                                                         | 0.5000              |             | 95.4 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.49                           |                                                         | 0.5000              |             | 98.4 | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.49                           |                                                         | 0.5000              |             | 97.8 | 70       | 130       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302999

07-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>2302999-001ams</b> | SampType: <b>MS</b>            | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|--------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-23 0'</b>     | Batch ID: <b>73352</b>         | RunNo: <b>94969</b>                                   |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b>      | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3433726</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                         | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 21                             | 4.9                                                   | 24.27               | 0           | 87.8 | 65.9     | 123       |      |          |      |
| Surr: BFB                        | 490                            |                                                       | 485.4               |             | 101  | 70       | 130       |      |          |      |

| Sample ID: <b>2302999-001amsd</b> | SampType: <b>MSD</b>           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |       |          |      |
|-----------------------------------|--------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: <b>BS23-23 0'</b>      | Batch ID: <b>73352</b>         | RunNo: <b>94969</b>                                   |                     |             |      |          |           |       |          |      |
| Prep Date: <b>2/23/2023</b>       | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3433727</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |       |          |      |
| Analyte                           | Result                         | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 21                             | 4.9                                                   | 24.37               | 0           | 88.1 | 65.9     | 123       | 0.753 | 20       |      |
| Surr: BFB                         | 490                            |                                                       | 487.3               |             | 101  | 70       | 130       | 0     | 0        |      |

| Sample ID: <b>Ics-73352</b>   | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|--------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>73352</b>         | RunNo: <b>94969</b>                                   |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b>   | Analysis Date: <b>3/1/2023</b> | SeqNo: <b>3433743</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                         | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 23                             | 5.0                                                   | 25.00               | 0           | 92.2 | 70       | 130       |      |          |      |
| Surr: BFB                     | 490                            |                                                       | 500.0               |             | 98.5 | 70       | 130       |      |          |      |

| Sample ID: <b>mb-73352</b>    | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|--------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>73352</b>         | RunNo: <b>94969</b>                                   |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/23/2023</b>   | Analysis Date: <b>3/1/2023</b> | SeqNo: <b>3433744</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                         | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                             | 5.0                                                   |                     |             |      |          |           |      |          |      |
| Surr: BFB                     | 510                            |                                                       | 500.0               |             | 102  | 70       | 130       |      |          |      |

| Sample ID: <b>2302999-020ams</b> | SampType: <b>MS</b>            | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|--------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-42 0'</b>     | Batch ID: <b>73366</b>         | RunNo: <b>94998</b>                                   |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>      | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3435219</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                         | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 22                             | 5.0                                                   | 24.93               | 0           | 86.8 | 65.9     | 123       |      |          |      |
| Surr: BFB                        | 510                            |                                                       | 498.5               |             | 101  | 70       | 130       |      |          |      |

| Sample ID: <b>2302999-020amsd</b> | SampType: <b>MSD</b>           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|--------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-42 0'</b>      | Batch ID: <b>73366</b>         | RunNo: <b>94998</b>                                   |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>       | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3435220</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                         | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302999

07-Mar-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>2302999-020amsd</b> | SampType: <b>MSD</b>           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|--------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-42 0'</b>      | Batch ID: <b>73366</b>         | RunNo: <b>94998</b>                                   |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>       | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3435220</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                         | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 22                             | 5.0                                                   | 24.90               | 0           | 89.3 | 65.9     | 123       | 2.76 | 20       |      |
| Surr: BFB                         | 500                            |                                                       | 498.0               |             | 101  | 70       | 130       | 0    | 0        |      |

| Sample ID: <b>ics-73366</b>   | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|--------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>73366</b>         | RunNo: <b>94998</b>                                   |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>   | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3435240</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                         | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22                             | 5.0                                                   | 25.00               | 0           | 89.6 | 70       | 130       |      |          |      |
| Surr: BFB                     | 510                            |                                                       | 500.0               |             | 102  | 70       | 130       |      |          |      |

| Sample ID: <b>mb-73366</b>    | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|--------------------------------|-------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>73366</b>         | RunNo: <b>94998</b>                                   |                     |             |      |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b>   | Analysis Date: <b>3/2/2023</b> | SeqNo: <b>3435241</b>                                 | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                         | PQL                                                   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                             | 5.0                                                   |                     |             |      |          |           |      |          |      |
| Surr: BFB                     | 520                            |                                                       | 500.0               |             | 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 Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2302999 RcptNo: 1

Received By: Tracy Casarrubias 2/23/2023 7:30:00 AM

Completed By: Tracy Casarrubias 2/23/2023 8:50:24 AM

Reviewed By: KPC 2.23.23

Chain of Custody

- 1. Is Chain of Custody complete? Yes [ ] No [x] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH:
(-2 or >12 unless noted)
Adjusted?
Checked by: TME 2/23/23

Special Handling (if applicable)

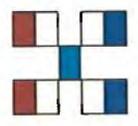
- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [x]

Person Notified: [ ] Date: [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 0.9, Good, Yes, Morty, ,



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time: \_\_\_\_\_  
 Standard  Rush 5:00 PM  
 Project Name: **North Pure Gold 8 Federal #006, West**  
 Project #: \_\_\_\_\_

**22E-02816-07**  
 Project Manager: **Kent Stallings**  
 Kent Stallings [kstallings@vertex.ca](mailto:kstallings@vertex.ca)  
 Sampler: **L. Pullman, H.K.**  
 On Ice:  Yes  No **morty**  
 # of Coolers: **1**  
 Cooler Temp (including CP): **1.0 - 0.1 - 0.9**

| Date     | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. |
|----------|------|--------|-------------|----------------------|-------------------|----------|
| 02/20/23 | 9:30 | Soil   | BS23-23 0'  | 1, 4oz jar           |                   | 001      |
| 02/20/23 | 9:30 | Soil   | BS23-24 0'  | 1, 4oz jar           |                   | 002      |
| 02/20/23 | 9:35 | Soil   | BS23-25 0'  | 1, 4oz jar           |                   | 003      |
| 02/20/23 | 9:35 | Soil   | BS23-26 0'  | 1, 4oz jar           |                   | 004      |
| 02/20/23 | 9:40 | Soil   | BS23-27 0'  | 1, 4oz jar           |                   | 005      |
| 02/20/23 | 9:40 | Soil   | BS23-28 0'  | 1, 4oz jar           |                   | 006      |
| 02/20/23 | 9:45 | Soil   | BS23-29 0'  | 1, 4oz jar           |                   | 007      |
| 02/20/23 | 9:45 | Soil   | BS23-30 0'  | 1, 4oz jar           |                   | 008      |
| 02/20/23 | 9:50 | Soil   | BS23-31 0'  | 1, 4oz jar           |                   | 009      |
| 02/20/23 | 9:50 | Soil   | BS23-32 0'  | 1, 4oz jar           |                   | 010      |
| 02/20/23 | 9:55 | Soil   | BS23-33 0'  | 1, 4oz jar           |                   | 011      |
| 02/20/23 | 9:55 | Soil   | BS23-34 0'  | 1, 4oz jar           |                   | 012      |

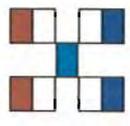
Relinquished by: [Signature] Date: 2/22/23 7:00  
 Relinquished by: [Signature] Date: 2/23/23 7:30  
 Received by: [Signature] Date: 2/23/23 7:30  
 Received by: [Signature] Date: 2/23/23 7:30

**Analysis Request**

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

Remarks: **Direct bill to Devon, Dale Woodall**  
**cc. kstallings@vertex.ca for Final Report**

1/5



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time: Standard  Rush 5 Day

Project Name: North Pure Gold 8 Federal #006, West

Project #: 22E-02816-07

Project Manager: Kent Stallings  
 Email or Fax#: kstallings@vertex.ca

Sampler: L. Pullman, UK

On Ice:  Yes  No marty

# of Coolers: 1

Cooler Temp (including CF): 10 - 0.1 = 0.9 °C

Matrix:  Level 4 (Full Validation)

Accreditation:  Az Compliance  NELAC  Other

EDD (Type): \_\_\_\_\_

| Date     | Time  | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. |
|----------|-------|--------|-------------|----------------------|-------------------|----------|
| 02/20/23 | 10:00 | Soil   | BS23-35 0'  | 1, 4oz jar           |                   | 013      |
| 02/20/23 | 10:00 | Soil   | BS23-36 0'  | 1, 4oz jar           |                   | 014      |
| 02/20/23 | 10:05 | Soil   | BS23-37 0'  | 1, 4oz jar           |                   | 015      |
| 02/20/23 | 10:05 | Soil   | BS23-38 0'  | 1, 4oz jar           |                   | 014      |
| 02/20/23 | 10:10 | Soil   | BS23-39 0'  | 1, 4oz jar           |                   | 017      |
| 02/20/23 | 10:10 | Soil   | BS23-40 0'  | 1, 4oz jar           |                   | 018      |
| 02/20/23 | 10:15 | Soil   | BS23-41 0'  | 1, 4oz jar           |                   | 014      |
| 02/20/23 | 10:15 | Soil   | BS23-42 0'  | 1, 4oz jar           |                   | 020      |
| 02/20/23 | 10:20 | Soil   | BS23-43 0'  | 1, 4oz jar           |                   | 021      |
| 02/20/23 | 10:20 | Soil   | BS23-44 0'  | 1, 4oz jar           |                   | 022      |
| 02/20/23 | 10:25 | Soil   | BS23-45 0'  | 1, 4oz jar           |                   | 023      |
| 02/20/23 | 10:25 | Soil   | BS23-46 0'  | 1, 4oz jar           |                   | 024      |

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

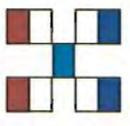
Received by: [Signature] Date: 2/20/23 Time: 07:00

Relinquished by: [Signature] Date: 2/23/23 Time: 7:30

Remarks: Direct bill to Devon, Dale Woodall  
cc. kstallings@vertex.ca for Final Report

2/5

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**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time: Standard  Rush 5 Day  
 Project Name: North Pure Gold 8 Federal #006, West

Project #: 22E-02816-07  
 Project Manager: Kent Stallings  
 Email or Fax #: kstallings@vertex.ca

Sampler: L. Pullman, H.K.  
 On Ice:  Yes  No mark  
 # of Coolers: 1  
 Cooler Temp (including CF): 1.0-0.1-0.4

| Date     | Time  | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. |
|----------|-------|--------|-------------|----------------------|-------------------|----------|
| 02/20/23 | 10:30 | Soil   | BS23-47 0'  | 1, 4oz jar           |                   | 025      |
| 02/20/23 | 10:30 | Soil   | BS23-48 0'  | 1, 4oz jar           |                   | 026      |
| 02/20/23 | 10:35 | Soil   | BS23-49 0'  | 1, 4oz jar           |                   | 027      |
| 02/20/23 | 10:35 | Soil   | BS23-50 0'  | 1, 4oz jar           |                   | 028      |
| 02/20/23 | 10:40 | Soil   | BS23-51 0'  | 1, 4oz jar           |                   | 029      |
| 02/20/23 | 10:40 | Soil   | BS23-52 0'  | 1, 4oz jar           |                   | 030      |
| 02/20/23 | 10:45 | Soil   | BS23-53 0'  | 1, 4oz jar           |                   | 031      |
| 02/20/23 | 10:45 | Soil   | BS23-54 0'  | 1, 4oz jar           |                   | 032      |
| 02/20/23 | 10:50 | Soil   | BS23-55 0'  | 1, 4oz jar           |                   | 033      |
| 02/20/23 | 10:50 | Soil   | BS23-56 0'  | 1, 4oz jar           |                   | 034      |
| 02/20/23 | 10:55 | Soil   | BS23-57 0'  | 1, 4oz jar           |                   | 035      |
| 02/20/23 | 10:55 | Soil   | BS23-58 0'  | 1, 4oz jar           |                   | 036      |

**Analysis Request**

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

Remarks: **Direct bill to Devon, Dale Woodall**  
 cc. kstallings@vertex.ca for Final Report

3/5

Client: Vertex  
 (direct bill to Devon)

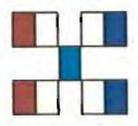
Phone #: 22E-02816-07

QA/QC Package:  Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  NELAC  Other  
 EDD (Type)

Relinquished by: [Signature]  
 Date: 2-22-2023 07:00  
 Relinquished by: [Signature]  
 Date: 2/20/23 19:02

Received by: [Signature] Date: 2/20/23 9:00  
 Received by: [Signature] Date: 2/23/23 7:30

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.



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www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time: 5 Day  
 Standard  Rush

Project Name: North Pure Gold 8 Federal #006, West

Project #: 22E-02816-07

Project Manager: Kent Stallings

QA/QC Package:  Level 4 (Full Validation)  Az Compliance  Other

Accreditation:  NELAC  Other

EDD (Type): \_\_\_\_\_

Sampler: L. Pullman, H.K.

On Ice:  Yes  No Mertry

# of Coolers: 1

Cooler Temp (including CF): 10 - 0.1 = 0.9 °C

| Date     | Time  | Matrix | Sample Name |
|----------|-------|--------|-------------|
| 02/20/23 | 11:00 | Soil   | BS23-59 0'  |
| 02/20/23 | 11:00 | Soil   | BS23-60 0'  |
| 02/20/23 | 11:05 | Soil   | BS23-61 0'  |
| 02/20/23 | 11:05 | Soil   | BS23-62 0'  |
| 02/20/23 | 11:10 | Soil   | BS23-63 0'  |
| 02/20/23 | 11:10 | Soil   | BS23-64 0'  |
| 02/20/23 | 11:15 | Soil   | BS23-65 0'  |
| 02/20/23 | 11:15 | Soil   | BS23-66 0'  |
| 02/20/23 | 11:20 | Soil   | BS23-67 0'  |
| 02/20/23 | 11:20 | Soil   | BS23-68 0'  |
| 02/20/23 | 11:25 | Soil   | BS23-69 0'  |
| 02/20/23 | 11:25 | Soil   | BS23-70 0'  |

| Container Type and # | Preservative Type | HEAL No. |
|----------------------|-------------------|----------|
| 1, 4oz jar           |                   | 2302999  |
| 1, 4oz jar           |                   | 037      |
| 1, 4oz jar           |                   | 030      |
| 1, 4oz jar           |                   | 035      |
| 1, 4oz jar           |                   | 010      |
| 1, 4oz jar           |                   | 041      |
| 1, 4oz jar           |                   | 042      |
| 1, 4oz jar           |                   | 043      |
| 1, 4oz jar           |                   | 044      |
| 1, 4oz jar           |                   | 045      |
| 1, 4oz jar           |                   | 046      |
| 1, 4oz jar           |                   | 047      |
| 1, 4oz jar           |                   | 040      |

| Date      | Time  | Relinquished by:   | Date    | Time | Relinquished by:   |
|-----------|-------|--------------------|---------|------|--------------------|
| 2-22-2023 | 07:00 | <i>[Signature]</i> | 2/22/23 | 7:00 | <i>[Signature]</i> |
| 3/19/24   | 1:40  | <i>[Signature]</i> | 2/23/23 | 7:30 | <i>[Signature]</i> |

Client: Vertex  
 (direct bill to Devon)

Mailing Address: \_\_\_\_\_

Phone #: \_\_\_\_\_

email or Fax#: \_\_\_\_\_

**Analysis Request**

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

Remarks: Direct bill to Devon, Dale Woodall  
cc. kstallings@vertex.ca for Final Report

5/4

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 noted on the analytical report.





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

May 26, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: North Pure Gold 8 Federal 006 West

OrderNo.: 2305B55

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/23/2023 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2305B55**

Date Reported: **5/26/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-47 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 5/19/2023 7:35:00 AM

**Lab ID:** 2305B55-001

**Matrix:** SOIL

**Received Date:** 5/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>PRD</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.3      |      | mg/Kg | 1  | 5/24/2023 9:16:36 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 5/24/2023 9:16:36 PM  |
| Surr: DNOP                                       | 114    | 69-147   |      | %Rec  | 1  | 5/24/2023 9:16:36 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 5/24/2023 10:42:16 PM |
| Surr: BFB                                        | 85.6   | 15-244   |      | %Rec  | 1  | 5/24/2023 10:42:16 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>KMN</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 5/25/2023 12:49:00 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 5/25/2023 12:49:00 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 5/25/2023 12:49:00 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 5/25/2023 12:49:00 PM |
| Surr: 4-Bromofluorobenzene                       | 87.9   | 39.1-146 |      | %Rec  | 1  | 5/25/2023 12:49:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 5/24/2023 7:36:46 PM  |

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

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

**Analytical Report**

Lab Order **2305B55**

Date Reported: **5/26/2023**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Vertex Resources Services, Inc.

**Client Sample ID:** BS23-52 0'

**Project:** North Pure Gold 8 Federal 006 West

**Collection Date:** 5/19/2023 7:40:00 AM

**Lab ID:** 2305B55-002

**Matrix:** SOIL

**Received Date:** 5/23/2023 7:30:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>PRD</b>   |
| Diesel Range Organics (DRO)                      | ND     | 8.7      |      | mg/Kg | 1  | 5/24/2023 9:27:33 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 43       |      | mg/Kg | 1  | 5/24/2023 9:27:33 PM  |
| Surr: DNOP                                       | 118    | 69-147   |      | %Rec  | 1  | 5/24/2023 9:27:33 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 5/24/2023 11:05:40 PM |
| Surr: BFB                                        | 87.2   | 15-244   |      | %Rec  | 1  | 5/24/2023 11:05:40 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>KMN</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 5/25/2023 1:10:00 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 5/25/2023 1:10:00 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 5/25/2023 1:10:00 PM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 5/25/2023 1:10:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 86.5   | 39.1-146 |      | %Rec  | 1  | 5/25/2023 1:10:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 5/24/2023 9:53:17 PM  |

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2305B55

26-May-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>MB-75144</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>75144</b>          | RunNo: <b>96996</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/24/2023</b> | Analysis Date: <b>5/24/2023</b> | SeqNo: <b>3520026</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-75144</b> | SampType: <b>ics</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>75144</b>          | RunNo: <b>96996</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/24/2023</b> | Analysis Date: <b>5/24/2023</b> | SeqNo: <b>3520028</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 92.3 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-75159</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>75159</b>          | RunNo: <b>96996</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/24/2023</b> | Analysis Date: <b>5/24/2023</b> | SeqNo: <b>3520080</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-75159</b> | SampType: <b>ics</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>75159</b>          | RunNo: <b>96996</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/24/2023</b> | Analysis Date: <b>5/24/2023</b> | SeqNo: <b>3520082</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00               | 0           | 94.8 | 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 Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2305B55

26-May-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>2305B55-002AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-52 0'</b>     | Batch ID: <b>75133</b>          | RunNo: <b>97001</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/23/2023</b>      | Analysis Date: <b>5/25/2023</b> | SeqNo: <b>3519502</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 39                              | 9.8                                                        | 48.97               | 0           | 78.6 | 54.2     | 135       |      |          |      |
| Surr: DNOP                       | 3.9                             |                                                            | 4.897               |             | 78.6 | 69       | 147       |      |          |      |

| Sample ID: <b>2305B55-002AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS23-52 0'</b>      | Batch ID: <b>75133</b>          | RunNo: <b>97001</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/23/2023</b>       | Analysis Date: <b>5/25/2023</b> | SeqNo: <b>3519505</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 40                              | 8.9                                                        | 44.64               | 0           | 88.5 | 54.2     | 135       | 2.54 | 29.2     |      |
| Surr: DNOP                        | 4.3                             |                                                            | 4.464               |             | 96.0 | 69       | 147       | 0    | 0        |      |

| Sample ID: <b>LCS-75133</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>75133</b>          | RunNo: <b>97001</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/23/2023</b> | Analysis Date: <b>5/24/2023</b> | SeqNo: <b>3519507</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 57                              | 10                                                         | 50.00               | 0           | 114  | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 6.2                             |                                                            | 5.000               |             | 124  | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-75146</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>75146</b>          | RunNo: <b>97001</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>5/24/2023</b> | Analysis Date: <b>5/24/2023</b> | SeqNo: <b>3519508</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 5.0                             |                                                            | 5.000              |             | 100  | 69       | 147       |      |          |      |

| Sample ID: <b>MB-75133</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>75133</b>          | RunNo: <b>97001</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/23/2023</b>    | Analysis Date: <b>5/24/2023</b> | SeqNo: <b>3519510</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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               |             | 94.9 | 69       | 147       |      |          |      |

| Sample ID: <b>MB-75146</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>75146</b>          | RunNo: <b>97001</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>5/24/2023</b> | Analysis Date: <b>5/24/2023</b> | SeqNo: <b>3519511</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2305B55

26-May-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>MB-75146</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>75146</b>          | RunNo: <b>97001</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>5/24/2023</b> | Analysis Date: <b>5/24/2023</b> | SeqNo: <b>3519511</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 11                              |                                                            | 10.00              |             | 106  | 69       | 147       |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2305B55

26-May-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>ics-75127</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>75127</b>          |     | RunNo: <b>96974</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>5/23/2023</b>   | Analysis Date: <b>5/24/2023</b> |     | SeqNo: <b>3519391</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 23                              | 5.0 | 25.00                                             | 0           | 92.3                | 70       | 130       |      |          |      |
| Surr: BFB                     | 5000                            |     | 1000                                              |             | 496                 | 15       | 244       |      |          | S    |

| Sample ID: <b>mb-75127</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>75127</b>          |     | RunNo: <b>96974</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>5/23/2023</b>   | Analysis Date: <b>5/24/2023</b> |     | SeqNo: <b>3519392</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0 |                                                   |             |                     |          |           |      |          |      |
| Surr: BFB                     | 910                             |     | 1000                                              |             | 90.8                | 15       | 244       |      |          |      |

| Sample ID: <b>mb-75132</b>  | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|---------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>75132</b>          |     | RunNo: <b>97020</b>                               |             |                    |          |           |      |          |      |
| Prep Date: <b>5/23/2023</b> | Analysis Date: <b>5/25/2023</b> |     | SeqNo: <b>3521524</b>                             |             | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                   | 900                             |     | 1000                                              |             | 90.2               | 15       | 244       |      |          |      |

| Sample ID: <b>ics-75132</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|---------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>75132</b>          |     | RunNo: <b>97020</b>                               |             |                    |          |           |      |          |      |
| Prep Date: <b>5/23/2023</b> | Analysis Date: <b>5/25/2023</b> |     | SeqNo: <b>3521525</b>                             |             | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                   | 1900                            |     | 1000                                              |             | 190                | 15       | 244       |      |          |      |

**Qualifiers:**

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- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2305B55

26-May-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>LCS-75127</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>75127</b>          | RunNo: <b>96974</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/23/2023</b> | Analysis Date: <b>5/24/2023</b> | SeqNo: <b>3519397</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.85                            | 0.025                                        | 1.000               | 0           | 85.2 | 70       | 130       |      |          |      |
| Toluene                     | 0.88                            | 0.050                                        | 1.000               | 0           | 87.9 | 70       | 130       |      |          |      |
| Ethylbenzene                | 0.89                            | 0.050                                        | 1.000               | 0           | 89.0 | 70       | 130       |      |          |      |
| Xylenes, Total              | 2.7                             | 0.10                                         | 3.000               | 0           | 89.2 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.99                            |                                              | 1.000               |             | 99.1 | 39.1     | 146       |      |          |      |

| Sample ID: <b>mb-75127</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>75127</b>          | RunNo: <b>96974</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/23/2023</b> | Analysis Date: <b>5/24/2023</b> | SeqNo: <b>3519398</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                              | 0.025                                        |                     |             |      |          |           |      |          |      |
| Toluene                     | ND                              | 0.050                                        |                     |             |      |          |           |      |          |      |
| Ethylbenzene                | ND                              | 0.050                                        |                     |             |      |          |           |      |          |      |
| Xylenes, Total              | ND                              | 0.10                                         |                     |             |      |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.96                            |                                              | 1.000               |             | 95.9 | 39.1     | 146       |      |          |      |

| Sample ID: <b>mb-75127</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>75127</b>          | RunNo: <b>97020</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/23/2023</b> | Analysis Date: <b>5/25/2023</b> | SeqNo: <b>3520527</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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               |             | 86.1 | 39.1     | 146       |      |          |      |

| Sample ID: <b>lcs-75127</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>75127</b>          | RunNo: <b>97020</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/23/2023</b> | Analysis Date: <b>5/25/2023</b> | SeqNo: <b>3520528</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.87                            | 0.025                                        | 1.000               | 0           | 86.7 | 70       | 130       |      |          |      |
| Toluene                     | 0.87                            | 0.050                                        | 1.000               | 0           | 86.5 | 70       | 130       |      |          |      |
| Ethylbenzene                | 0.84                            | 0.050                                        | 1.000               | 0           | 84.5 | 70       | 130       |      |          |      |
| Xylenes, Total              | 2.5                             | 0.10                                         | 3.000               | 0           | 83.9 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.87                            |                                              | 1.000               |             | 86.5 | 39.1     | 146       |      |          |      |

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2305B55

26-May-23

**Client:** Vertex Resources Services, Inc.  
**Project:** North Pure Gold 8 Federal 006 West

| Sample ID: <b>mb-75132</b>  | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>75132</b>          |     | RunNo: <b>97020</b>                          |             |                    |          |           |      |          |      |
| Prep Date: <b>5/23/2023</b> | Analysis Date: <b>5/25/2023</b> |     | SeqNo: <b>3521548</b>                        |             | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene  | 0.86                            |     | 1.000                                        |             | 86.2               | 39.1     | 146       |      |          |      |

| Sample ID: <b>ics-75132</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|----------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>75132</b>          |     | RunNo: <b>97020</b>                          |             |                    |          |           |      |          |      |
| Prep Date: <b>5/23/2023</b> | Analysis Date: <b>5/25/2023</b> |     | SeqNo: <b>3521549</b>                        |             | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene  | 0.87                            |     | 1.000                                        |             | 86.8               | 39.1     | 146       |      |          |      |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.      Work Order Number: 2305B55      RcptNo: 1

Received By: Tracy Casarrubias      5/23/2023 7:30:00 AM

Completed By: Tracy Casarrubias      5/23/2023 8:11:58 AM

Reviewed By: *JL 5-23-23*

### Chain of Custody

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

### Log In

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

# of preserved bottles checked for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: *WJ 5/23/23*

### 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: Mailing address, phone number and Email are missing on Coc- TMC 5/23/23

16. Additional remarks:

### 17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 5.4     | Good      | Yes         | Morty   |           |           |



## APPENDIX F – Depth to Groundwater Drilling

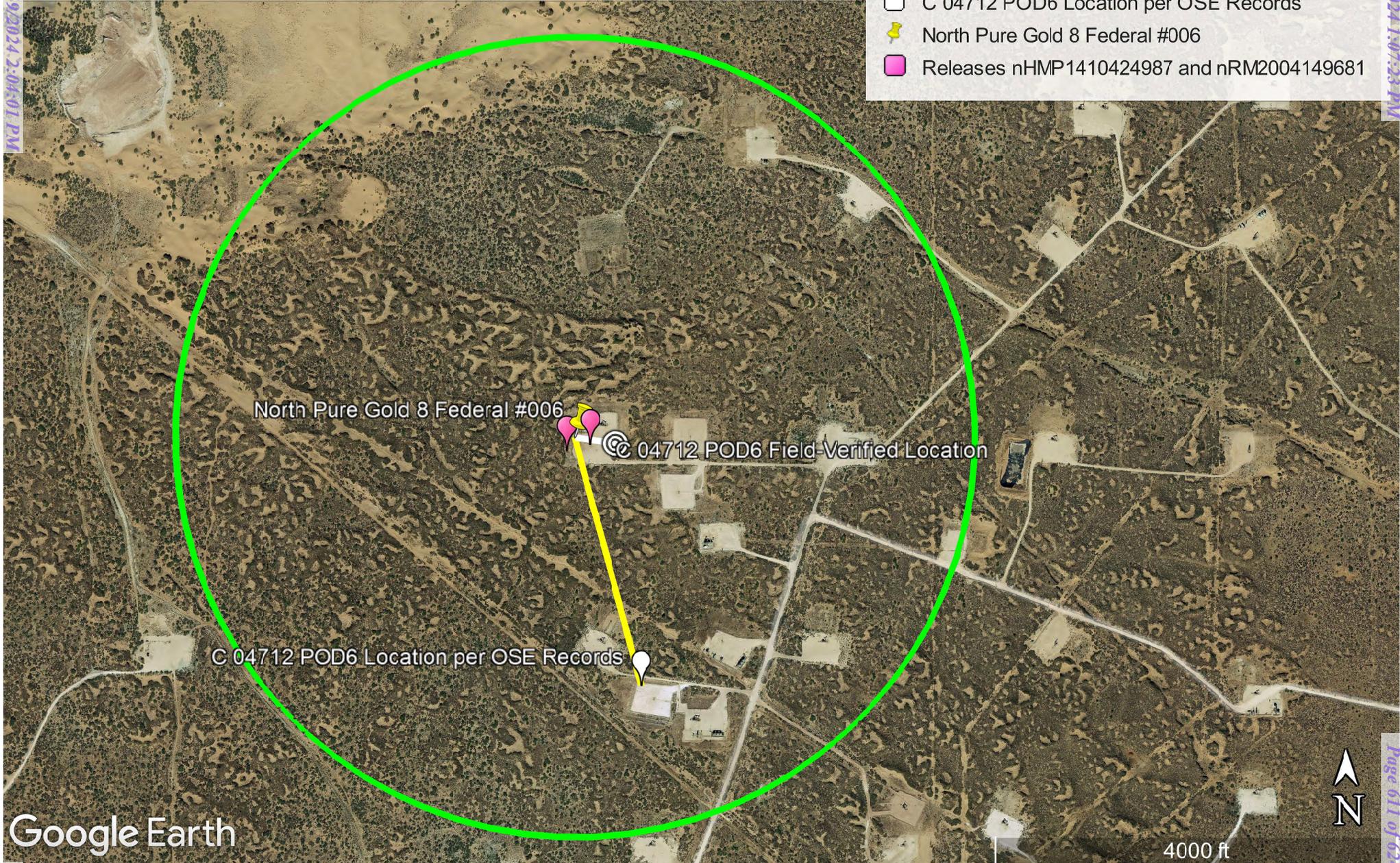
# North Pure Gold 8 Federal #006 DTGW Reference

C 04712 POD6 Drilled to 59 feet bgs on March 7, 2023 by Vision Resources, Inc.  
Borehole was dry at time of drilling

Interface probe was used 72 hours after drilling to confirm that borehole remained completely dry to 59 feet bgs.

## Legend

-  0.5 mile radius
-  1,680 feet to C 04712 POD6 per OSE Records
-  273 feet to C 04712 Verified Location
-  C 04712 POD6 Field-Verified Location
-  C 04712 POD6 Location per OSE Records
-  North Pure Gold 8 Federal #006
-  Releases nHMP1410424987 and nRM2004149681





# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

|                 |                   |            |            |           |            |            |            |          |          |
|-----------------|-------------------|------------|------------|-----------|------------|------------|------------|----------|----------|
| <b>Well Tag</b> | <b>POD Number</b> | <b>Q64</b> | <b>Q16</b> | <b>Q4</b> | <b>Sec</b> | <b>Tws</b> | <b>Rng</b> | <b>X</b> | <b>Y</b> |
| NA              | C 04712 POD6      | 3          | 3          | 4         | 08         | 23S        | 31E        | 613147   | 3575740  |

x

|                                     |                                               |                              |
|-------------------------------------|-----------------------------------------------|------------------------------|
| <b>Driller License:</b> 1833        | <b>Driller Company:</b> VISION RESOURCES, INC |                              |
| <b>Driller Name:</b> JASON MALEY    |                                               |                              |
| <b>Drill Start Date:</b> 03/09/2023 | <b>Drill Finish Date:</b> 03/09/2023          | <b>Plug Date:</b> 03/14/2023 |
| <b>Log File Date:</b> 04/04/2023    | <b>PCW Rev Date:</b>                          | <b>Source:</b>               |
| <b>Pump Type:</b>                   | <b>Pipe Discharge Size:</b>                   | <b>Estimated Yield:</b>      |
| <b>Casing Size:</b>                 | <b>Depth Well:</b> 55 feet                    | <b>Depth Water:</b>          |

x

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

5/17/23 11:52 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Water Right Summary



[get image list](#)

**WR File Number:** C 04712      **Subbasin:** CUB      **Cross Reference:** -  
**Primary Purpose:** MON MONITORING WELL  
**Primary Status:** PMT PERMIT  
**Total Acres:**      **Subfile:** -      **Header:** -  
**Total Diversion:** 0      **Cause/Case:** -  
**Owner:** VERTEX RESOURCES  
**User:** HARVARD PETROLEUM COMPANY LLC  
**Contact:** JUSTIN WARREN

### Documents on File

| Trn #                  | Doc  | File/Act                   | Status |     | Transaction Desc. | From/ |  | Acres | Diversion | Consumptive |
|------------------------|------|----------------------------|--------|-----|-------------------|-------|--|-------|-----------|-------------|
|                        |      |                            | 1      | 2   |                   | To    |  |       |           |             |
| <a href="#">743189</a> | EXPL | <a href="#">2023-02-21</a> | PMT    | APR | C 04712 POD1-6    | T     |  | 0     | 0         |             |

### Current Points of Diversion

(NAD83 UTM in meters)

| POD Number                   | Well Tag | Source | Q  |     |    |             | X   | Y   | Other Location Desc |         |          |
|------------------------------|----------|--------|----|-----|----|-------------|-----|-----|---------------------|---------|----------|
|                              |          |        | 64 | Q16 | Q4 | Sec Tws Rng |     |     |                     |         |          |
| <a href="#">C 04712 POD1</a> | NA       |        | 1  | 4   | 1  | 31          | 23S | 32E | 620917              | 3570289 | SDE      |
| <a href="#">C 04712 POD2</a> | NA       |        | 4  | 4   | 4  | 17          | 23S | 32E | 623332              | 3574331 | TOMCAT17 |
| <a href="#">C 04712 POD3</a> | NA       |        | 4  | 1   | 2  | 24          | 23S | 31E | 619651              | 3573877 | TODD24   |
| <a href="#">C 04712 POD4</a> | NA       |        | 1  | 4   | 3  | 14          | 23S | 31E | 617535              | 3574316 | TODD14   |
| <a href="#">C 04712 POD5</a> | NA       |        | 4  | 4   | 3  | 09          | 23S | 31E | 614393              | 3575754 | NPG9     |
| <a href="#">C 04712 POD6</a> | NA       |        | 3  | 3   | 4  | 08          | 23S | 31E | 613147              | 3575740 | NPG8     |

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5/17/23 12:05 PM

WATER RIGHT SUMMARY



# New Mexico Office of the State Engineer

## Transaction Summary

### EXPL Permit To Explore

**Transaction Number:** 743189      **Transaction Desc:** C 04712 POD1-6      **File Date:** 12/14/2022

**Primary Status:** PMT Permit  
**Secondary Status:** APR Approved  
**Person Assigned:** \*\*\*\*\*  
**Applicant:** VERTEX RESOURCES  
**User:** HARVARD PETROLEUM COMPANY LLC  
**Contact:** JUSTIN WARREN

#### Events

|                                                                                                              | Date       | Type | Description                   | Comment          | Processed By |
|--------------------------------------------------------------------------------------------------------------|------------|------|-------------------------------|------------------|--------------|
|  <a href="#">get images</a> | 12/14/2022 | APP  | Application Received          | *                | *****        |
|  <a href="#">get images</a> | 02/07/2023 | TEC  | Technical Report              | *PLG PLN OPS C   | *****        |
|                                                                                                              | 02/21/2023 | FTN  | Finalize non-published Trans. |                  | *****        |
|                                                                                                              | 03/09/2023 | QAT  | Quality Assurance Completed   | DATA             | *****        |
|                                                                                                              | 03/14/2023 | QAT  | Quality Assurance Completed   | IMAGE            | *****        |
|                                                                                                              | 04/04/2023 | LOG  | Well Log Received             | *C-4712-POD1 DRY | *****        |
|                                                                                                              | 04/04/2023 | DRY  | Dry well log received         | C-4712 POD1 DRY  | *****        |
|                                                                                                              | 04/04/2023 | LOG  | Well Log Received             | *C-4712-POD2 DRY | *****        |
|                                                                                                              | 04/04/2023 | DRY  | Dry well log received         | C-4712-POD2 DRY  | *****        |
|                                                                                                              | 04/04/2023 | LOG  | Well Log Received             | *C-4712-POD3 DRY | *****        |
|                                                                                                              | 04/04/2023 | DRY  | Dry well log received         | C-4712-POD3 DRY  | *****        |
|                                                                                                              | 04/04/2023 | LOG  | Well Log Received             | *C-4712-POD4 DRY | *****        |
|                                                                                                              | 04/04/2023 | DRY  | Dry well log received         | C-4712-POD4 DRY  | *****        |
|                                                                                                              | 04/04/2023 | LOG  | Well Log Received             | *C-4712-POD5 DRY | *****        |
|                                                                                                              | 04/04/2023 | DRY  | Dry well log received         | C-4712-POD5 DRY  | *****        |
|                                                                                                              | 04/04/2023 | LOG  | Well Log Received             | *C-4712-POD6 DRY | *****        |

|            |     |                       |                 |       |
|------------|-----|-----------------------|-----------------|-------|
| 04/04/2023 | DRY | Dry well log received | C-4712-POD6 DRY | ***** |
| 04/04/2023 | LGI | Well Log Image        | *PLG RECORD C-  | ***** |
| 04/04/2023 | LGI | Well Log Image        | *PLG RECORD C-  | ***** |
| 04/04/2023 | LGI | Well Log Image        | *PLG RECORD C-  | ***** |
| 04/04/2023 | LGI | Well Log Image        | *PLG RECORD C-  | ***** |
| 04/04/2023 | LGI | Well Log Image        | *PLG RECORD C-  | ***** |
| 04/04/2023 | LGI | Well Log Image        | *PLG RECORD C-  | ***** |

**Water Right Information**

| WR File Nbr | Acres | Diversion | Consumptive | Purpose of Use      |
|-------------|-------|-----------|-------------|---------------------|
| C 04712     | 0     | 0         |             | MON MONITORING WELL |

**\*\*Point of Diversion**

|              |        |         |                                                                                   |
|--------------|--------|---------|-----------------------------------------------------------------------------------|
| C 04712 POD2 | 623332 | 3574331 |  |
| C 04712 POD1 | 620917 | 3570289 |  |
| C 04712 POD3 | 619651 | 3573877 |  |
| C 04712 POD6 | 613090 | 3576220 |  |
| C 04712 POD4 | 617535 | 3574316 |  |
| C 04712 POD5 | 614393 | 3575754 |  |

**Conditions**

- 1A Depth of the well shall not exceed the thickness of the valley fill.
- 4 No water shall be appropriated and beneficially used under this permit.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.

- P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- Q The State Engineer retains jurisdiction over this permit.
- R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

**Action of the State Engineer**

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

**\*\* See Image For Any Additional Conditions of Approval \*\***

**Approval Code:** A - Approved

**Action Date:** 02/21/2023

**Log Due Date:** 02/21/2024

**State Engineer:** Mike A. Hamman, P.

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

5/17/23 12:06 PM

TRANSACTION  
SUMMARY

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

QUESTIONS

Action 321676

**QUESTIONS**

|                                                                                                       |                                                                             |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>DEVON ENERGY PRODUCTION COMPANY, LP<br>333 West Sheridan Ave.<br>Oklahoma City, OK 73102 | OGRID:<br>6137                                                              |
|                                                                                                       | Action Number:<br>321676                                                    |
|                                                                                                       | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
|                                                                                                       |                                                                             |

**QUESTIONS**

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| <b>Prerequisites</b> |                                                       |
| Incident ID (n#)     | nRM2004149681                                         |
| Incident Name        | NRM2004149681 NORTH PURE GOLD 8 FED #6 @ 30-015-27618 |
| Incident Type        | Release Other                                         |
| Incident Status      | Remediation Closure Report Received                   |
| Incident Well        | [30-015-27618] NORTH PURE GOLD 8 FEDERAL #006         |

|                                                       |                          |
|-------------------------------------------------------|--------------------------|
| <b>Location of Release Source</b>                     |                          |
| <i>Please answer all the questions in this group.</i> |                          |
| Site Name                                             | NORTH PURE GOLD 8 FED #6 |
| Date Release Discovered                               | 02/03/2020               |
| Surface Owner                                         | Federal                  |

|                                                                                                      |               |
|------------------------------------------------------------------------------------------------------|---------------|
| <b>Incident Details</b>                                                                              |               |
| <i>Please answer all the questions in this group.</i>                                                |               |
| Incident Type                                                                                        | Release Other |
| Did this release result in a fire or is the result of a fire                                         | No            |
| Did this release result in any injuries                                                              | No            |
| Has this release reached or does it have a reasonable probability of reaching a watercourse          | No            |
| Has this release endangered or does it have a reasonable probability of endangering public health    | No            |
| Has this release substantially damaged or will it substantially damage property or the environment   | No            |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No            |

|                                                                                                                                                                                             |                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Nature and Volume of Release</b>                                                                                                                                                         |                                                                                                                |
| <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i> |                                                                                                                |
| Crude Oil Released (bbls) Details                                                                                                                                                           | Cause: Corrosion   Flow Line - Production   Crude Oil   Released: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL.      |
| Produced Water Released (bbls) Details                                                                                                                                                      | Cause: Corrosion   Flow Line - Production   Produced Water   Released: 5 BBL   Recovered: 0 BBL   Lost: 5 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l                                                                                                                         | No                                                                                                             |
| Condensate Released (bbls) Details                                                                                                                                                          | Not answered.                                                                                                  |
| Natural Gas Vented (Mcf) Details                                                                                                                                                            | Not answered.                                                                                                  |
| Natural Gas Flared (Mcf) Details                                                                                                                                                            | Not answered.                                                                                                  |
| Other Released Details                                                                                                                                                                      | Not answered.                                                                                                  |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)                                        | Not answered.                                                                                                  |

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QUESTIONS, Page 2

Action 321676

**QUESTIONS (continued)**

|                                                                                                       |                                                                             |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>DEVON ENERGY PRODUCTION COMPANY, LP<br>333 West Sheridan Ave.<br>Oklahoma City, OK 73102 | OGRID:<br>6137                                                              |
|                                                                                                       | Action Number:<br>321676                                                    |
|                                                                                                       | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
|                                                                                                       |                                                                             |

**QUESTIONS**

|                                                                                                                                                                |                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Nature and Volume of Release (continued)</b>                                                                                                                |                                                                                      |
| Is this a gas only submission (i.e. only significant Mcf values reported)                                                                                      | <b>More info needed to determine if this will be treated as a "gas only" report.</b> |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC                                                                                         | <b>No</b>                                                                            |
| Reasons why this would be considered a submission for a notification of a major release                                                                        | <i>Unavailable.</i>                                                                  |
| <i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i> |                                                                                      |

**Initial Response**

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

|                                                                                                                    |                      |
|--------------------------------------------------------------------------------------------------------------------|----------------------|
| The source of the release has been stopped                                                                         | <b>True</b>          |
| The impacted area has been secured to protect human health and the environment                                     | <b>True</b>          |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | <b>True</b>          |
| All free liquids and recoverable materials have been removed and managed appropriately                             | <b>True</b>          |
| If all the actions described above have not been undertaken, explain why                                           | <i>Not answered.</i> |

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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

|                                                    |                                                                                                  |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------|
| I hereby agree and sign off to the above statement | Name: Dale Woodall<br>Title: EHS Professional<br>Email: Dale.Woodall@dmv.com<br>Date: 03/08/2024 |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------|

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**Santa Fe, NM 87505**

**QUESTIONS (continued)**

|                                                                                                       |                                                                          |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Operator:<br>DEVON ENERGY PRODUCTION COMPANY, LP<br>333 West Sheridan Ave.<br>Oklahoma City, OK 73102 | OGRID: 6137                                                              |
|                                                                                                       | Action Number: 321676                                                    |
|                                                                                                       | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
|                                                                                                       |                                                                          |

**QUESTIONS**

**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs) | Between 51 and 75 (ft.) |
| What method was used to determine the depth to ground water                                                                | U.S. Geological Survey  |
| Did this release impact groundwater or surface water                                                                       | No                      |
| <b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>   |                         |
| A continuously flowing watercourse or any other significant watercourse                                                    | Between 1 and 5 (mi.)   |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)                                          | Between 1 and 5 (mi.)   |
| An occupied permanent residence, school, hospital, institution, or church                                                  | Between ½ and 1 (mi.)   |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes  | Between ½ and 1 (mi.)   |
| Any other fresh water well or spring                                                                                       | Between ½ and 1 (mi.)   |
| Incorporated municipal boundaries or a defined municipal fresh water well field                                            | Greater than 5 (mi.)    |
| A wetland                                                                                                                  | Between 1 and 5 (mi.)   |
| A subsurface mine                                                                                                          | Between 1 and 5 (mi.)   |
| An (non-karst) unstable area                                                                                               | Between 1 and 5 (mi.)   |
| Categorize the risk of this well / site being in a karst geology                                                           | Low                     |
| A 100-year floodplain                                                                                                      | Greater than 5 (mi.)    |
| Did the release impact areas not on an exploration, development, production, or storage site                               | No                      |

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

|                                                                                                                                                                                                         |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Requesting a remediation plan approval with this submission                                                                                                                                             | Yes |
| Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. |     |
| Have the lateral and vertical extents of contamination been fully delineated                                                                                                                            | Yes |
| Was this release entirely contained within a lined containment area                                                                                                                                     | No  |

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

|                                             |      |
|---------------------------------------------|------|
| Chloride (EPA 300.0 or SM4500 Cl B)         | 1500 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 10   |
| GRO+DRO (EPA SW-846 Method 8015M)           | 0    |
| BTEX (EPA SW-846 Method 8021B or 8260B)     | 0    |
| Benzene (EPA SW-846 Method 8021B or 8260B)  | 0    |

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

|                                                                             |            |
|-----------------------------------------------------------------------------|------------|
| On what estimated date will the remediation commence                        | 01/04/2023 |
| On what date will (or did) the final sampling or liner inspection occur     | 01/10/2023 |
| On what date will (or was) the remediation complete(d)                      | 01/10/2023 |
| What is the estimated surface area (in square feet) that will be reclaimed  | 0          |
| What is the estimated volume (in cubic yards) that will be reclaimed        | 0          |
| What is the estimated surface area (in square feet) that will be remediated | 6855       |
| What is the estimated volume (in cubic yards) that will be remediated       | 1487       |

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 321676

**QUESTIONS (continued)**

|                                                                                                       |                                                                             |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>DEVON ENERGY PRODUCTION COMPANY, LP<br>333 West Sheridan Ave.<br>Oklahoma City, OK 73102 | OGRID:<br>6137                                                              |
|                                                                                                       | Action Number:<br>321676                                                    |
|                                                                                                       | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
|                                                                                                       |                                                                             |

**QUESTIONS**

**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

|                                                                                       |                                            |
|---------------------------------------------------------------------------------------|--------------------------------------------|
| (Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.) | Yes                                        |
| Which OCD approved facility will be used for <b>off-site</b> disposal                 | R360 Artesia LLC LANDFARM [FEEM0112340644] |
| <b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal     | Not answered.                              |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state              | Not answered.                              |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility          | Not answered.                              |
| (Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)         | Not answered.                              |
| (In Situ) Soil Vapor Extraction                                                       | Not answered.                              |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)     | Not answered.                              |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)                    | Not answered.                              |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)              | Not answered.                              |
| Ground Water Abatement pursuant to 19.15.30 NMAC                                      | Not answered.                              |
| OTHER (Non-listed remedial process)                                                   | Not answered.                              |

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

|                                                    |                                                                                                  |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------|
| I hereby agree and sign off to the above statement | Name: Dale Woodall<br>Title: EHS Professional<br>Email: Dale.Woodall@dvn.com<br>Date: 03/08/2024 |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------|

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 321676

**QUESTIONS (continued)**

|                                                                                                       |                                                                             |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>DEVON ENERGY PRODUCTION COMPANY, LP<br>333 West Sheridan Ave.<br>Oklahoma City, OK 73102 | OGRID:<br>6137                                                              |
|                                                                                                       | Action Number:<br>321676                                                    |
|                                                                                                       | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

|                                                                                                                                                                                                       |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| <b>Deferral Requests Only</b>                                                                                                                                                                         |    |
| <i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i> |    |
| Requesting a deferral of the remediation closure due date with the approval of this submission                                                                                                        | No |

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QUESTIONS, Page 6

Action 321676

**QUESTIONS (continued)**

|                                                                                                       |                                                                          |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Operator:<br>DEVON ENERGY PRODUCTION COMPANY, LP<br>333 West Sheridan Ave.<br>Oklahoma City, OK 73102 | OGRID: 6137                                                              |
|                                                                                                       | Action Number: 321676                                                    |
|                                                                                                       | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

|                                                                                                 |                   |
|-------------------------------------------------------------------------------------------------|-------------------|
| <b>Sampling Event Information</b>                                                               |                   |
| Last sampling notification (C-141N) recorded                                                    | <b>321625</b>     |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | <b>02/16/2023</b> |
| What was the (estimated) number of samples that were to be gathered                             | <b>1</b>          |
| What was the sampling surface area in square feet                                               | <b>200</b>        |

|                                                                                                                                                                                                                                                                                    |                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>Remediation Closure Request</b>                                                                                                                                                                                                                                                 |                   |
| <i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>                                                                                                                                  |                   |
| Requesting a remediation closure approval with this submission                                                                                                                                                                                                                     | <b>Yes</b>        |
| Have the lateral and vertical extents of contamination been fully delineated                                                                                                                                                                                                       | <b>Yes</b>        |
| Was this release entirely contained within a lined containment area                                                                                                                                                                                                                | <b>No</b>         |
| All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion                                                         | <b>Yes</b>        |
| What was the total surface area (in square feet) remediated                                                                                                                                                                                                                        | <b>6855</b>       |
| What was the total volume (cubic yards) remediated                                                                                                                                                                                                                                 | <b>1487</b>       |
| All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene | <b>Yes</b>        |
| What was the total surface area (in square feet) reclaimed                                                                                                                                                                                                                         | <b>0</b>          |
| What was the total volume (in cubic yards) reclaimed                                                                                                                                                                                                                               | <b>0</b>          |
| Summarize any additional remediation activities not included by answers (above)                                                                                                                                                                                                    | <b>see report</b> |

*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 (in .pdf format) 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.*

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

|                                                    |                                                                                                  |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------|
| I hereby agree and sign off to the above statement | Name: Dale Woodall<br>Title: EHS Professional<br>Email: Dale.Woodall@dmn.com<br>Date: 03/08/2024 |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------|

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
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**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

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

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

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

QUESTIONS, Page 7

Action 321676

**QUESTIONS (continued)**

|                                                                                                       |                                                                             |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>DEVON ENERGY PRODUCTION COMPANY, LP<br>333 West Sheridan Ave.<br>Oklahoma City, OK 73102 | OGRID:<br>6137                                                              |
|                                                                                                       | Action Number:<br>321676                                                    |
|                                                                                                       | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

|                                                                                              |    |
|----------------------------------------------------------------------------------------------|----|
| <b>Reclamation Report</b>                                                                    |    |
| <i>Only answer the questions in this group if all reclamation steps have been completed.</i> |    |
| Requesting a reclamation approval with this submission                                       | No |

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CONDITIONS

Action 321676

**CONDITIONS**

|                                                                                                       |                                                                             |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>DEVON ENERGY PRODUCTION COMPANY, LP<br>333 West Sheridan Ave.<br>Oklahoma City, OK 73102 | OGRID:<br>6137                                                              |
|                                                                                                       | Action Number:<br>321676                                                    |
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|                                                                                                       |                                                                             |

**CONDITIONS**

| Created By | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Condition Date |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| amaxwell   | Remediation closure approved.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3/19/2024      |
| amaxwell   | The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; | 3/19/2024      |