



Incident Number: nAB1519733009

## Remediation Assessment and Closure

North Pure Gold 4 Federal #003

Section 04, Township 23 South, Range 31 East

API: 30-015-35702

County: Eddy

Vertex File Number: 25A-01170

**Prepared for:**

Devon Energy Production Company, LP

**Prepared by:**

Vertex Resource Services Inc.

**Date:**

September 2025

**Devon Energy Production Company, LP**  
North Pure Gold 4 Federal #003

**Remediation Assessment and Closure**  
September 2025

**Remediation Assessment and Closure**  
**North Pure Gold 4 Federal #003**  
**Section 04, Township 23 South, Range 31 East**  
**API: 30-015-35702**  
**County: Eddy**

Prepared for:  
**Devon Energy Production Company, LP**  
5321 Buena Vista Drive  
Carlsbad, New Mexico 88220

**New Mexico Oil Conservation Division**  
508 West Texas Avenue  
Artesia, New Mexico 88210

Prepared by:  
**Vertex Resource Services Inc.**  
3101 Boyd Drive  
Carlsbad, New Mexico 88220

*Lakin Pullman*

Lakin Pullman, B.Sc.  
ENVIRONMENTAL SPECIALIST, REPORTING

September 1, 2025

Date

*Kent Stallings*

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

September 9, 2025

Date

Devon Energy Production Company, LP  
North Pure Gold 4 Federal #003

Remediation Assessment and Closure  
September 2025

## Table of Contents

|                                                                  |   |
|------------------------------------------------------------------|---|
| 1.0 Introduction .....                                           | 1 |
| 2.0 Incident Description .....                                   | 1 |
| 3.0 Site Characteristics .....                                   | 1 |
| 4.0 Closure Criteria Determination .....                         | 2 |
| 5.0 Remedial Actions Taken.....                                  | 4 |
| 5.1 Initial Characterization, Liner Inspection, and Denial ..... | 4 |
| 5.2 Characterization and Remediation.....                        | 5 |
| 6.0 Closure Request.....                                         | 6 |
| 7.0 References .....                                             | 7 |
| 8.0 Limitations .....                                            | 8 |

## In-text Tables

- Table 1. Closure Criteria Determination  
Table 2. Closure Criteria for Soils Impacted by a Release

## List of Figures

- Figure 1. Characterization Sampling Site Schematic  
Figure 2. Confirmation Sample Locations

## List of Tables

- Table 3. Characterization Sample Laboratory Results – Depth to Groundwater 51-100 feet bgs  
Table 4. Confirmation Sample Laboratory Results – Depth to Groundwater 51-100 feet bgs

## List of Appendices

- Appendix A. NMOCD C-141 Report  
Appendix B. Closure Criteria Research Documentation  
Appendix C. Daily Field Reports  
Appendix D. Talon/LPE Site Assessment and Closure Report  
Appendix E. Laboratory Data Reports and Chain of Custody Forms

## 1.0 Introduction

Devon Energy Production Company, LP (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Remediation Assessment and Closure for a produced water and crude oil release that occurred on July 11, 2015, at North Pure Gold 4 Federal #003 API 30-015-35702 (hereafter referred to as the “site”). Devon submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 2 on July 14, 2015. Incident ID number nAB1519733009, 2RP-3117 was assigned to this incident.

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 the release site 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

The release occurred on July 11, 2015, after a lightning strike and subsequent fire damaged the tanks. The incident was reported on July 14, 2015, and involved the release of approximately 254 barrels (bbl) of produced water and 5 bbl crude oil into lined containment and on the pad site. Approximately 400 bbl of produced water mixed with fire department water were removed along with 2 bbl of crude oil during initial clean-up. Additional details relevant to the release are presented in the C-141 Report (Appendix A).

## 3.0 Site Characteristics

The site is located approximately 17.8 miles east of Loving, New Mexico. The legal location for the site is Section 04, Township 23 South and Range 31 East in Eddy County, New Mexico. The release area is located on Bureau of Land Management property. An aerial photograph and site schematic are presented on Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release area north of the tank battery on the constructed pad (Figure 1).

*The Geological Map of New Mexico* indicates the site’s surface geology primarily comprises Qep - Eolian and piedmont deposits (New Mexico Bureau of Geology and Mineral Resources, 2025). 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. Predominant soil textures around the site are well-drained fine sands and fine sandy loams with low runoff potential (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses interspersed with shrubs (United States

Department of Agriculture, Natural Resources Conservation Service, 2025). Limited to no vegetation is allowed to grow on the compacted facility pad.

#### 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 55 feet. The borehole was left to recover 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 recovery 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 B.

The nearest active water well to the site is United States Department of Energy monitoring well located 0.63 miles to the south (New Mexico Office of the State Engineer, 2025). 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 0.67 miles south of the site (United States Fish and Wildlife Service, 2025). 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

Devon Energy Production Company, LP  
North Pure Gold 4 Federal #003

Remediation Assessment and Closure  
September 2025

| <b>Table 1. Closure Criteria Determination</b>   |                                                                                                                                                                                                                                     |                               |                                   |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------|
| <b>Site Name: North Pure Gold 4 Federal #003</b> |                                                                                                                                                                                                                                     |                               |                                   |
| <b>Spill Coordinates: 32.339958,-103.788999</b>  |                                                                                                                                                                                                                                     | <b>X: 613965</b>              | <b>Y: 3578763</b>                 |
| <b>Site Specific Conditions</b>                  |                                                                                                                                                                                                                                     | <b>Value</b>                  | <b>Unit</b>                       |
| 1                                                | Depth to Groundwater (nearest reference)                                                                                                                                                                                            | >55                           | feet                              |
|                                                  | Distance between release and nearest DTGW reference                                                                                                                                                                                 | 240                           | feet                              |
|                                                  |                                                                                                                                                                                                                                     | 0.05                          | miles                             |
|                                                  | Date of nearest DTGW reference measurement                                                                                                                                                                                          | December 18, 2023             |                                   |
| 2                                                | Within 300 feet of any continuously flowing watercourse or any other significant watercourse                                                                                                                                        | 3,546                         | feet                              |
| 3                                                | Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)                                                                                                                                 | 4,508                         | feet                              |
| 4                                                | Within 300 feet from an occupied residence, school, hospital, institution or church                                                                                                                                                 | 7,681                         | 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                                                                                | 4,301                         | feet                              |
|                                                  | ii) Within 1000 feet of any fresh water well or spring                                                                                                                                                                              | 3,356                         | feet                              |
| 6                                                | Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves | No                            | (Y/N)                             |
| 7                                                | Within 300 feet of a wetland                                                                                                                                                                                                        | 4,074                         | feet                              |
| 8                                                | Within the area overlying a subsurface mine                                                                                                                                                                                         | No                            | (Y/N)                             |
|                                                  | Distance between release and nearest registered mine                                                                                                                                                                                | 29,600                        | feet                              |
| 9                                                | Within an unstable area (Karst Map)                                                                                                                                                                                                 | Low                           | Critical<br>High<br>Medium<br>Low |
|                                                  | Distance between release and nearest unstable area                                                                                                                                                                                  | 11,656                        | feet                              |
| 10                                               | Within a 100-year Floodplain                                                                                                                                                                                                        | >500                          | year                              |
|                                                  | Distance between release and nearest FEMA Zone A (100-year Floodplain)                                                                                                                                                              | 38,283                        | feet                              |
| 11                                               | Soil Type                                                                                                                                                                                                                           | Fine sand and fine sandy loam |                                   |
| 12                                               | Ecological Classification                                                                                                                                                                                                           | Deep sand and loamy sand      |                                   |
| 13                                               | Geology                                                                                                                                                                                                                             | Eolian and piedmont deposits  |                                   |
|                                                  | <b>NMAC 19.15.29.12 E (Table 1) Closure Criteria</b>                                                                                                                                                                                | 51-100'                       | <50'<br>51-100'<br>>100'          |

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

| <b>Table 2. Closure Criteria for Soils Impacted by a Release</b>                                                            |                    |              |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------|--------------|
| <b>Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS</b> | <b>Constituent</b> | <b>Limit</b> |
| 51 feet - 100 feet                                                                                                          | 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     |

TDS – total dissolved solids

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 Initial Characterization, Liner Inspection, and Denial

Initial characterization activities and containment liner inspection were conducted by Talon/LPE (Talon) on April 6, 2020 (Appendix D). Four soil samples were collected around the edges of the tank battery containment and submitted to Hall Environmental Analysis Laboratory for testing. Talon determined that the laboratory results for the four samples were within closure criteria for the site. Visual observation of the liner confirmed that the liner integrity was not compromised. The Talon/LPE Site Assessment and Closure Report is presented in Appendix D.

On July 20, 2020, Devon submitted a Site Assessment and Closure Report to NMOCD communicating that no further remedial action was deemed to be required at the site. The closure report was denied on December 28, 2022, with the following explanation:

*“The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.”*

*“Horizontal and vertical delineation submitted was incomplete and did not meet the requirements of 19.15.29.11 NMAC. The values for determination of horizontal impact are derived by either approved “background” values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. This is especially important for “on-pad” releases to ensure the release did not extend to the “off-pad”/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample*

*exceeding approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation."*

## 5.2 Characterization and Remediation

Vertex completed independent characterization around the outside edges of the tank battery containment area and onto the pad north of the tank battery between February 18 and March 24, 2023. Characterization included horizontal and vertical delineation of the area of impact. The total impacted area was determined to be 1,083 square feet. A Daily Field Report (DFR) associated with one of the site visits is included in Appendix C. Characterization sample locations and approximate impact area are presented on Figure 1. Characterization field screening and laboratory results are summarized in Table 3.

On December 18, 2023, exploratory borehole C-04772 POD1 was drilled 0.05 miles west of the impact area to 55 feet below ground surface (bgs). The exploratory borehole was dry and provided a current and local reference supporting depth to groundwater between 51 and 100 feet bgs. The borehole log for C-04772 POD1 is included in Appendix B.

Remediation efforts began on July 28, 2025, and were finalized on August 1, 2025. Vertex personnel supervised the excavation of impacted soils. Field screening consisted of analysis using a Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and silver nitrate titration (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. Field screening results and DFRs documenting various phases of the remediation are presented in Appendix C.

Notification that confirmation samples were being collected was provided to the NMOCD on July 29, 2025. Confirmation 5-point composite samples were collected from the base and walls of the excavation in increments no greater than 200 square feet. The areas of the excavation bases and walls were approximately 1,012 and 440 square feet, respectively. The excavation was terminated at the edge of the fence immediately north of the tank battery containment due to close proximity of equipment and infrastructure. Confirmation samples were collected from the surface of the release area that had not undergone remediation (undisturbed). A total of nine base samples and six wall samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Eurofins Environment Testing 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 4, and the laboratory data reports are included in Appendix E. Confirmation sample locations are presented on Figure 2.

Upon completion of remedial actions, approximately 1,012 square feet and 104 cubic yards of the pad surface was remediated to closure criteria. All confirmation samples collected from the remediation area were below strictest closure criteria. Confirmation samples BS25-07, BS25-08, and BS25-09 from the undisturbed release area met closure criteria. At time of facility decommissioning and deconstruction, the remediation depth of the undisturbed release area is estimated to be 4 feet bgs to meet NMOCD requirements for reclamation. The remaining release area covers

approximately 440 square feet and the estimated volume of soil remaining to be removed is 66 cubic yards. The undisturbed release area and corresponding confirmation sampling locations are shown on Figure 2.

## 6.0 Closure Request

Vertex recommends no additional remediation action to address the release at North Pure Gold 4 Federal #003. Laboratory analyses of the final confirmatory samples showed constituent of concern concentration levels below NMOC remediation closure criteria for areas where depth to groundwater is between 51 and 100 feet bgs as shown in Table 2. There are no anticipated risks to human, ecological or hydrological receptors associated with the release sites. The excavation was 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.

Devon Energy Production Company, LP, requests that incident nAB1519733009 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 NMOC requirements to obtain closure on the July 11, 2015, release at North Pure Gold 4 Federal #003.

Should you have any questions or concerns, please do not hesitate to contact the Project Manager Kent Stallings at 346.814.1413 or kstallings@vertexresource.com.

## 7.0 References

Google Inc. (2025). *Google Earth Pro (Version 7.3.3)* [Software]. Retrieved from <https://earth.google.com>

New Mexico Bureau of Geology and Mineral Resources. (2025). *Interactive Geologic Map*. Retrieved from <https://maps.nmt.edu/>

New Mexico Office of the State Engineer. (2025). *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. (2025). *Web Soil Survey*. Retrieved from <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

United States Department of Homeland Security, Federal Emergency Management Agency. (2025). *FEMA Flood Map Service: Search by Address*. Retrieved from <https://msc.fema.gov/portal/search?AddressQuery=malaga%20new%20mexico#searchresultsanchor>

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](https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html)

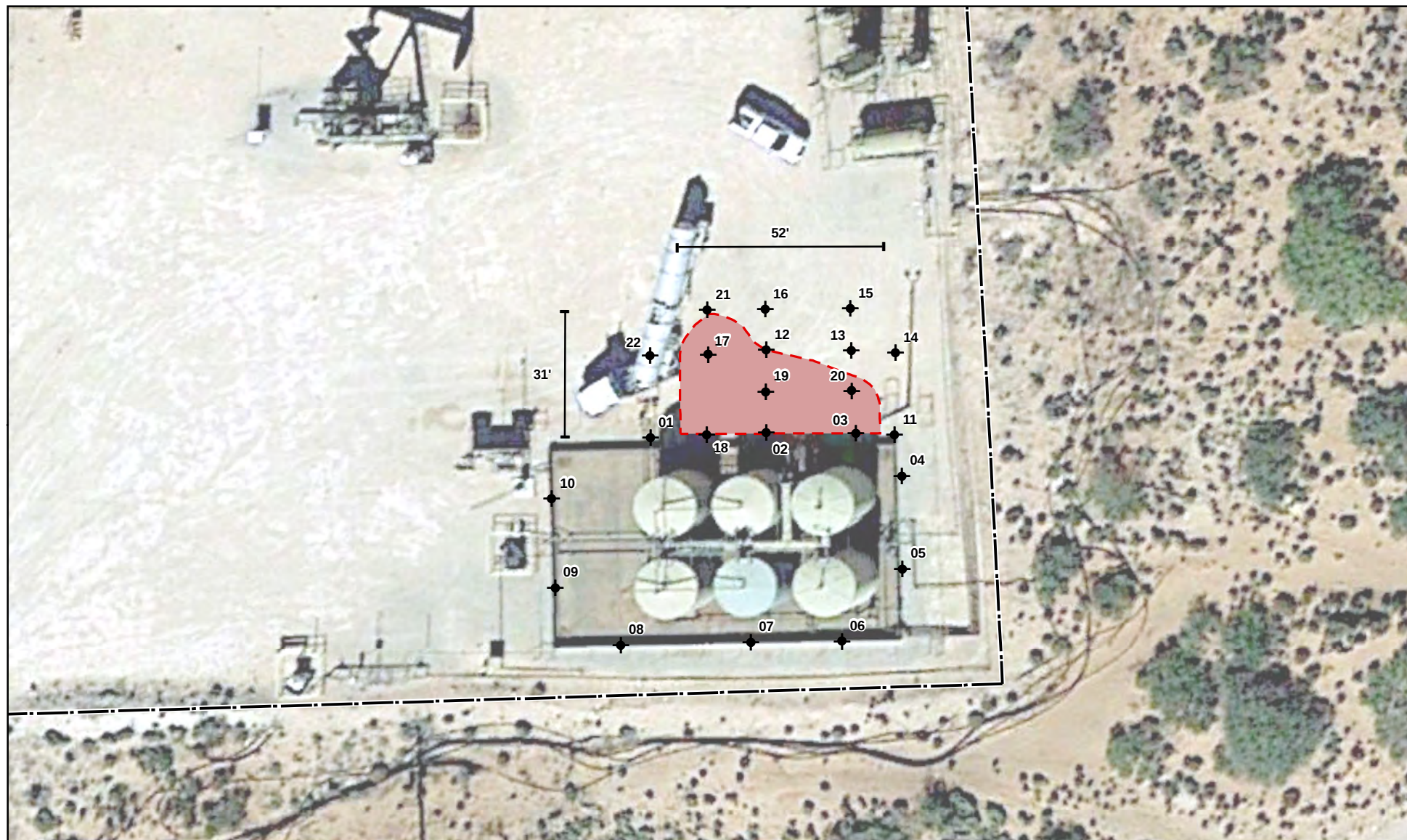
United States Fish and Wildlife Service. (2025). *National Wetland Inventory - Surface Waters and Wetlands*. Retrieved from <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>

## 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**



◆ Borehole (Prefixed by "BH23-")    [Dashed Line] Approximate Lease Boundary    [Red Shaded Area] Approximate Release Area (~1,083 sq. ft.)



0 25 50 Feet  
Map Center:  
Lat/Long: 32.340040, -103.789040

NAD 1983 UTM Zone 13N  
Date: Mar 27/23



### Characterization Sampling Site Schematic North Pure Gold 4 Federal #003

FIGURE:

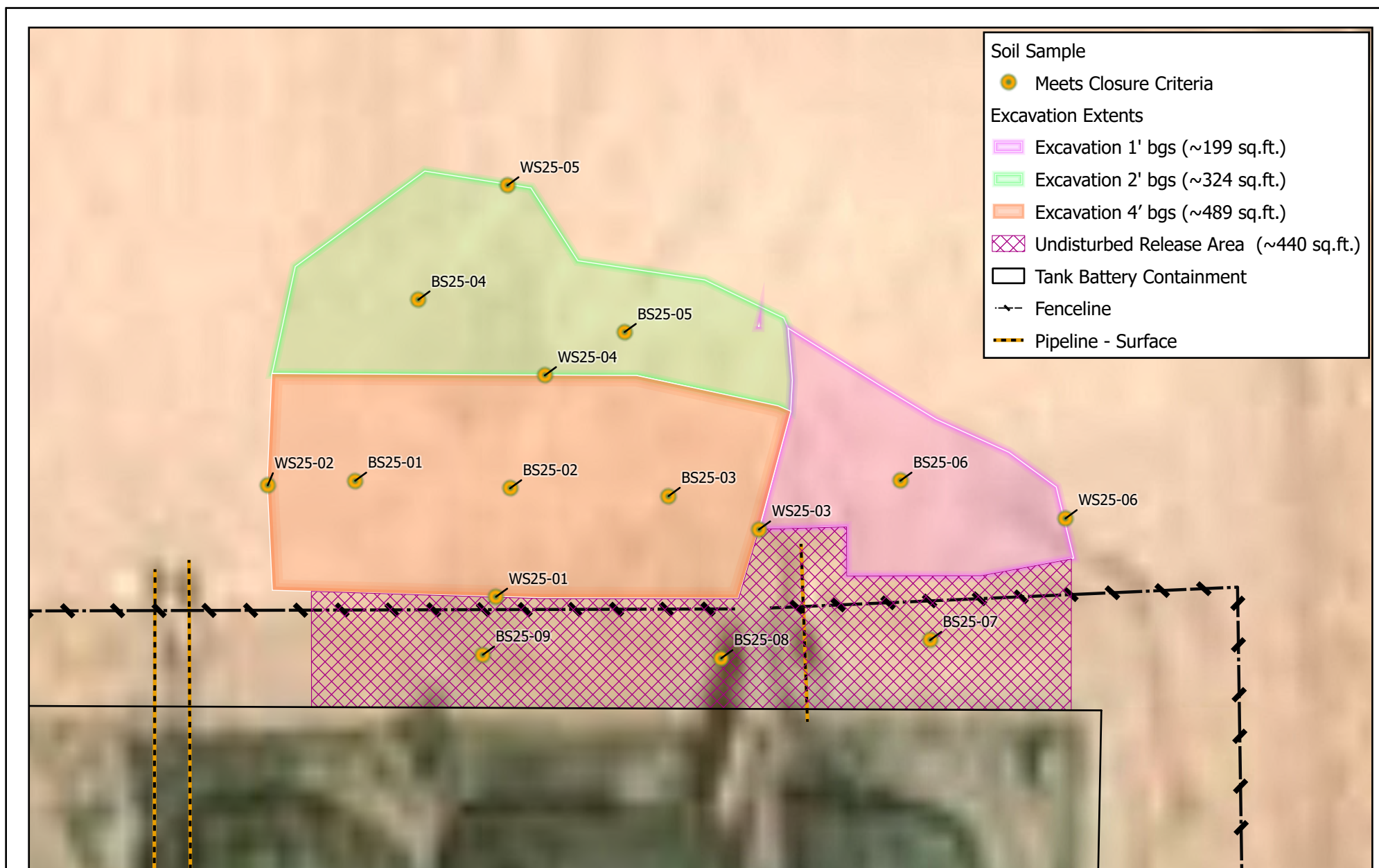
1



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

Note: Background imagery from Google Earth, 2017. Lease boundary from imagery. GPS from Vertex Professional Services Ltd., 2023.

VERSATILITY. EXPERTISE.



0 5 10 ft  
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:  
Lat/Long: 32.340073°N, 103.788982°W

Date: Aug 08/25



**Confirmation Sample Locations**  
**North Pure Gold 4 Federal #003**

FIGURE:

2



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

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

**VERSATILITY. EXPERTISE.**

## **TABLES**

Client Name: Devon Energy Production Company, LP  
 Site Name: North Pure Gold 4 Federal #003  
 NM OCD Tracking #: nAB1519733009  
 Project #: 25A-01170  
 Lab Reports: 2302852, 2302A66, 2302B06, and 2303D14

| Table 3. Characterization Sample Laboratory Results - Depth to Groundwater 51 feet - 100 feet |            |                   |                        |              |                               |                             |                                |             |                                    |           |
|-----------------------------------------------------------------------------------------------|------------|-------------------|------------------------|--------------|-------------------------------|-----------------------------|--------------------------------|-------------|------------------------------------|-----------|
| Sample Description                                                                            |            |                   | Petroleum Hydrocarbons |              |                               |                             |                                |             |                                    | Inorganic |
| Sample ID                                                                                     | Depth (ft) | Sample Date       | Volatile               |              | Extractable                   |                             |                                |             |                                    |           |
|                                                                                               |            |                   | Benzene                | BTEX (Total) | Gasoline Range Organics (GRO) | Diesel Range Organics (DRO) | Motor Oil Range Organics (MRO) | (GRO + DRO) | Total Petroleum Hydrocarbons (TPH) |           |
|                                                                                               |            |                   |                        |              |                               |                             |                                |             |                                    |           |
| BH23-01                                                                                       | 0          | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 110       |
|                                                                                               | 2          | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 230       |
|                                                                                               | 4          | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 160       |
|                                                                                               | 6          | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 170       |
| BH23-02                                                                                       | 0          | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 620       |
|                                                                                               | 2          | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 730       |
|                                                                                               | 4          | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 600       |
|                                                                                               | 6          | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 250       |
|                                                                                               | 7          | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 240       |
| BH23-03                                                                                       | 0          | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 240       |
|                                                                                               | 2          | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 1,500     |
|                                                                                               | 4          | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 660       |
|                                                                                               | 6          | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 430       |
|                                                                                               | 7          | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 140       |
| BH23-04                                                                                       | 0          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
|                                                                                               | 2          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
|                                                                                               | 4          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 92        |
| BH23-05                                                                                       | 0          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
|                                                                                               | 2          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
|                                                                                               | 4          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 240       |
| BH23-06                                                                                       | 0          | February 19, 2023 | ND                     | ND           | ND                            | 12                          | ND                             | 12          | 12                                 | ND        |
|                                                                                               | 2          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 84        |
|                                                                                               | 4          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
| BH23-07                                                                                       | 0          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 100       |
|                                                                                               | 2          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 100       |
|                                                                                               | 4          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 140       |
| BH23-08                                                                                       | 0          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
|                                                                                               | 2          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
|                                                                                               | 4          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
| BH23-09                                                                                       | 0          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
|                                                                                               | 2          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
|                                                                                               | 4          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
| BH23-10                                                                                       | 0          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
|                                                                                               | 2          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
|                                                                                               | 4          | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |

Client Name: Devon Energy Production Company, LP  
 Site Name: North Pure Gold 4 Federal #003  
 NM OCD Tracking #: nAB1519733009  
 Project #: 25A-01170  
 Lab Reports: 2302852, 2302A66, 2302B06, and 2303D14

| Table 3. Characterization Sample Laboratory Results - Depth to Groundwater 51 feet - 100 feet |                |                   |                        |              |                               |                             |                                |             |                                    |           |
|-----------------------------------------------------------------------------------------------|----------------|-------------------|------------------------|--------------|-------------------------------|-----------------------------|--------------------------------|-------------|------------------------------------|-----------|
| Sample Description                                                                            |                |                   | Petroleum Hydrocarbons |              |                               |                             |                                |             |                                    | Inorganic |
| Sample ID                                                                                     | Depth (ft)     | Sample Date       | Volatile               |              | Extractable                   |                             |                                |             |                                    |           |
|                                                                                               |                |                   | Benzene                | BTEX (Total) | Gasoline Range Organics (GRO) | Diesel Range Organics (DRO) | Motor Oil Range Organics (MRO) | (GRO + DRO) | Total Petroleum Hydrocarbons (TPH) |           |
|                                                                                               |                |                   |                        |              |                               |                             |                                |             |                                    |           |
| BH23-11                                                                                       | 0              | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 130       |
|                                                                                               | 2              | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 130       |
|                                                                                               | 4              | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 130       |
|                                                                                               | 6              | February 18, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 120       |
| BH23-12                                                                                       | 0              | February 19, 2023 | ND                     | ND           | ND                            | 18                          | ND                             | 18          | 18                                 | 70        |
|                                                                                               | 2              | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
|                                                                                               | 4              | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
|                                                                                               | 6              | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 290       |
| BH23-13                                                                                       | 0              | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 280       |
|                                                                                               | 2              | February 19, 2023 | ND                     | ND           | ND                            | 61                          | ND                             | 61          | 61                                 | ND        |
|                                                                                               | 4              | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
|                                                                                               | 6              | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 470       |
| BH23-14                                                                                       | 0              | February 19, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 410       |
|                                                                                               | 2              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 210       |
|                                                                                               | 4              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 130       |
| BH23-15                                                                                       | 0              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 170       |
|                                                                                               | 2              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 160       |
|                                                                                               | 4              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
| BH23-16                                                                                       | 0              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
|                                                                                               | 2              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 130       |
|                                                                                               | 4              | February 22, 2023 | ND                     | ND           | ND                            | 21                          | ND                             | 21          | 21                                 | ND        |
| BH23-17                                                                                       | 0              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | ND        |
|                                                                                               | 2              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 1,300     |
|                                                                                               | 4              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 360       |
| BH23-18                                                                                       | 0              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 330       |
|                                                                                               | 2              | February 22, 2023 | ND                     | ND           | ND                            | 15                          | ND                             | 15          | 15                                 | 340       |
|                                                                                               | 4              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 1,100     |
|                                                                                               | 6              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 730       |
|                                                                                               | 7              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 350       |
| BH23-19                                                                                       | 0              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 170       |
|                                                                                               | 2              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 4,200     |
|                                                                                               | 4              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 1,000     |
|                                                                                               | 6              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 1,500     |
|                                                                                               | 7              | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 1,500     |
|                                                                                               | 8              | March 24, 2023    | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 1,800     |
|                                                                                               | 10             | March 24, 2023    | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 1,100     |
| 12                                                                                            | March 24, 2023 | ND                | ND                     | ND           | ND                            | ND                          | ND                             | ND          | 230                                |           |
| 65                                                                                            |                |                   |                        |              |                               |                             |                                |             |                                    |           |

Client Name: Devon Energy Production Company, LP  
 Site Name: North Pure Gold 4 Federal #003  
 NM OCD Tracking #: nAB1519733009  
 Project #: 25A-01170  
 Lab Reports: 2302852, 2302A66, 2302B06, and 2303D14

| Table 3. Characterization Sample Laboratory Results - Depth to Groundwater 51 feet - 100 feet |            |                   |                        |              |                               |                             |                                |             |                                    |           |
|-----------------------------------------------------------------------------------------------|------------|-------------------|------------------------|--------------|-------------------------------|-----------------------------|--------------------------------|-------------|------------------------------------|-----------|
| Sample Description                                                                            |            |                   | Petroleum Hydrocarbons |              |                               |                             |                                |             |                                    | Inorganic |
| Sample ID                                                                                     | Depth (ft) | Sample Date       | Volatile               |              | Extractable                   |                             |                                |             |                                    |           |
|                                                                                               |            |                   | Benzene                | BTEX (Total) | Gasoline Range Organics (GRO) | Diesel Range Organics (DRO) | Motor Oil Range Organics (MRO) | (GRO + DRO) | Total Petroleum Hydrocarbons (TPH) |           |
|                                                                                               |            |                   |                        |              |                               |                             |                                |             |                                    |           |
| BH23-20                                                                                       | 0          | February 22, 2023 | ND                     | ND           | ND                            | 110                         | 56                             | 110         | 166                                | 410       |
|                                                                                               | 2          | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 380       |
|                                                                                               | 4          | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 220       |
|                                                                                               | 6          | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 430       |
|                                                                                               | 7          | February 22, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 950       |
| BH23-21                                                                                       | 0          | February 23, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 230       |
|                                                                                               | 2          | February 23, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 85        |
|                                                                                               | 4          | February 23, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 64        |
| BH23-22                                                                                       | 0          | February 23, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 120       |
|                                                                                               | 2          | February 23, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 110       |
|                                                                                               | 4          | February 23, 2023 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 73        |

"ND" Not Detected at the Reporting Limit

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

Client Name: Devon Energy Production Company, LP  
 Site Name: North Pure Gold 4 Federal #003  
 NM OCD Tracking #: NAB1519733009  
 Project #: 25A-01170  
 Lab Reports: 885-30117 and 885-30118

| Table 4. Confirmation Sample Laboratory Results - Depth to Groundwater 51 feet - 100 feet |            |               |                        |              |                               |                             |                                |             |                                    |           |
|-------------------------------------------------------------------------------------------|------------|---------------|------------------------|--------------|-------------------------------|-----------------------------|--------------------------------|-------------|------------------------------------|-----------|
| Sample Description                                                                        |            |               | Petroleum Hydrocarbons |              |                               |                             |                                |             |                                    | Inorganic |
| Sample ID                                                                                 | Depth (ft) | Sample Date   | Volatile               |              | Extractable                   |                             |                                |             |                                    |           |
|                                                                                           |            |               | Benzene                | BTEX (Total) | Gasoline Range Organics (GRO) | Diesel Range Organics (DRO) | Motor Oil Range Organics (MRO) | (GRO + DRO) | Total Petroleum Hydrocarbons (TPH) |           |
|                                                                                           |            |               |                        |              |                               |                             |                                |             |                                    |           |
| BS25-01                                                                                   | 4          | July 31, 2025 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 440       |
| BS25-02                                                                                   | 4          | July 31, 2025 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 2500      |
| BS25-03                                                                                   | 4          | July 31, 2025 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 1100      |
| BS25-04                                                                                   | 2          | July 31, 2025 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 120       |
| BS25-05                                                                                   | 2          | July 31, 2025 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 100       |
| BS25-06                                                                                   | 1          | July 31, 2025 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 110       |
| BS25-07                                                                                   | 0          | July 31, 2025 | ND                     | ND           | ND                            | 230                         | 430                            | 230         | 660                                | 1300      |
| BS25-08                                                                                   | 0          | July 31, 2025 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 3200      |
| BS25-09                                                                                   | 0          | July 31, 2025 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 1300      |
| WS25-01                                                                                   | 0-4        | July 31, 2025 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 500       |
| WS25-02                                                                                   | 0-4        | July 31, 2025 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 78        |
| WS25-03                                                                                   | 0-4        | July 31, 2025 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 63        |
| WS25-04                                                                                   | 2-4        | July 31, 2025 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 150       |
| WS25-05                                                                                   | 0-2        | July 31, 2025 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 110       |
| WS25-06                                                                                   | 0-1        | July 31, 2025 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 110       |
| Backfill-01                                                                               | 0          | July 31, 2025 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 64        |
| Backfill-02                                                                               | 0          | July 31, 2025 | ND                     | ND           | ND                            | ND                          | ND                             | ND          | ND                                 | 73        |

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

**Bold and grey shaded indicates exceedance outside of NMOCD Remediation 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

ARTESIA DISTRICT

JUL 14 2015

Form C-141  
Revised August 8, 2011Submit 1 Copy to appropriate District Office in  
conformance with 19.15.29 NMAC.**RECEIVED****Release Notification and Corrective Action**

NAB1519 733 009

**OPERATOR**☒ Initial Report ☐ Final Report

|                 |                                         |               |              |
|-----------------|-----------------------------------------|---------------|--------------|
| Name of Company | Devon Energy Production                 | Contact       | Dan Suniga   |
| Address         | 6488 Seven Rivers Hwy Artesia, NM 88220 | Telephone No. | 575-390-5850 |
| Facility Name   | North Pure Gold 4 Fed 3                 | Facility Type | Oil          |

|               |         |               |         |         |              |
|---------------|---------|---------------|---------|---------|--------------|
| Surface Owner | Federal | Mineral Owner | Federal | API No. | 30-015-35702 |
|---------------|---------|---------------|---------|---------|--------------|

**LOCATION OF RELEASE**

|             |         |          |       |               |                  |               |                |        |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
| D           | 4       | 23S      | 31E   | 180           | FNL              | 660           | FWL            | Eddy   |

Latitude: 32.340135 Longitude: 103.788762

**NATURE OF RELEASE**

|                                                                                                                                          |                                                             |                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------|
| Type of Release Spill<br>Fire with 5 BBL oil and 254 BBL of produced water                                                               | Volume of Release<br>5 BBL oil & 254 BBL produced water     | Volume Recovered<br>2 BBL oil & 400 produced water and water |
| Source of Release<br>Lightning struck facility and caught battery on fire                                                                | Date and Hour of Occurrence<br>7/11/15 at 7:00 am           | Date and Hour of Discovery<br>7/11/15 at 7:00 am             |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?<br>Jeff Robertson BLM<br>Mike Bratcher OCD |                                                              |
| By Whom?<br>Ray Carter                                                                                                                   | Date and Hour<br>7/11/15 at 9:30 am                         |                                                              |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                        | If YES, Volume Impacting the Watercourse                    |                                                              |

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

7/11/15 on the North Pure Gold 4 Fed 3 at 7:00 am the battery caught fire due to lightning. Lease operator called 911 and fire was contained.

Describe Area Affected and Cleanup Action Taken.\*

5 BBL of oil and 254 BBL of water was released all in lined containment. Liner will be evaluated once time permits. Facility will need to be rebuilt.

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: Jeanette Barron

Printed Name: Jeanette Barron

Title: Field Admin Support

E-mail Address: Jeanette.barron@dvn.com

Date: 7/13/15

Phone: 575.748.1813

**OIL CONSERVATION DIVISION**Signed By: Mike Bratcher

Approved by Environmental Specialist:

Approval Date: 7/16/15

Expiration Date: N/A

Conditions of Approval:

Remediation per O.C.D. Rules &amp; Guidelines

SUBMIT REMEDIATION PROPOSAL NO

LATER THAN: 8/10/15

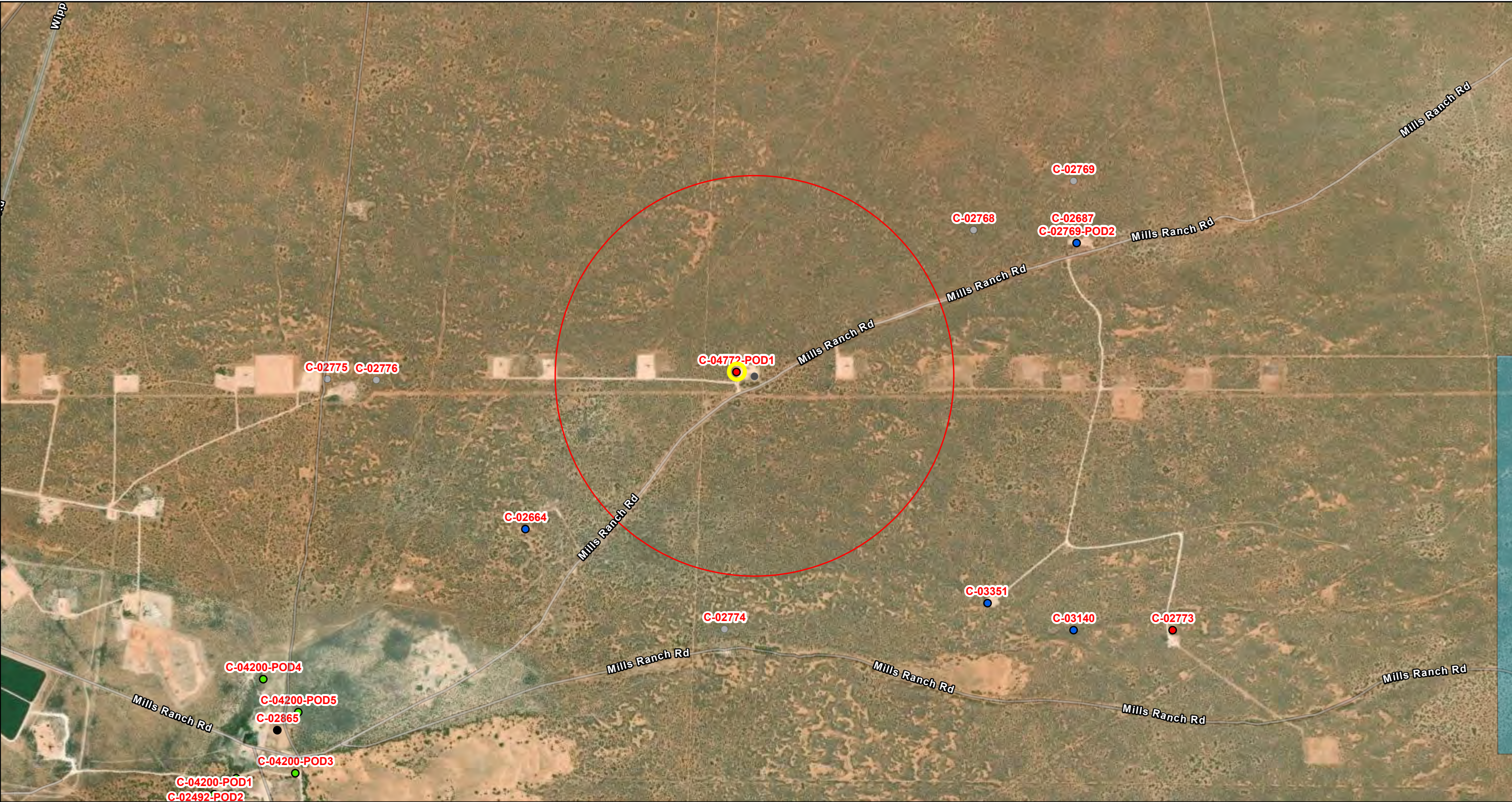
Attached ☐

\* Attach Additional Sheets If Necessary

2RP-3117

## **APPENDIX B – Closure Criteria Research Documentation**

# OSE POD 0.5 miles



7/8/2025, 12:03:51 PM

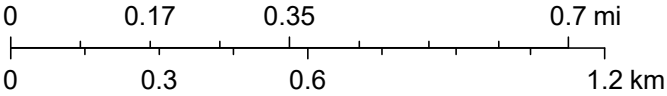
GIS WATERS PODs

- Active
- Pending

- Inactive
- Plugged

- OSE District Boundary
- New Mexico State Trust Lands
- Both Estates

1:18,056



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar

Water Column/Average Depth to Water

| <div>(A CLW##### in the POD suffix indicates the POD has been replaced &amp; no longer serves a water right file.)</div> <div>(R=POD has been replaced, O=orphaned, C=the file is closed)</div> <div>(quarters are smallest to largest)</div> <div>(NAD83 UTM in meters)</div> <div>(In feet)</div> <div>(In feet)</div> <div>(In feet)</div> |      |           |        |     |     |    |     |     |       |          |             |     |          |            |             |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|--------|-----|-----|----|-----|-----|-------|----------|-------------|-----|----------|------------|-------------|--------------|
| POD Number                                                                                                                                                                                                                                                                                                                                    | Code | Sub basin | County | Q64 | Q16 | Q4 | Sec | Tws | Range | X        | Y           | Map | Distance | Well Depth | Depth Water | Water Column |
| <a href="#">C 04772 POD1</a>                                                                                                                                                                                                                                                                                                                  |      | CUB       | ED     | NW  | NW  | NW | 04  | 23S | 31E   | 613895.0 | 3578780.5   |     | 72       | 55         |             |              |
| <a href="#">C 02774</a>                                                                                                                                                                                                                                                                                                                       |      | CUB       | ED     | SW  | NW  | SW | 04  | 23S | 31E   | 613857.0 | 3577745.0 * |     | 1023     | 1660       |             |              |
| <a href="#">C 02767</a>                                                                                                                                                                                                                                                                                                                       |      | CUB       | ED     | SE  | NW  | SE | 33  | 22S | 31E   | 614844.0 | 3579360.0 * |     | 1062     | 785        |             |              |
| <a href="#">C 02768</a>                                                                                                                                                                                                                                                                                                                       |      | CUB       | ED     | SE  | NW  | SE | 33  | 22S | 31E   | 614844.0 | 3579360.0 * |     | 1062     | 787        |             |              |
| <a href="#">C 02664</a>                                                                                                                                                                                                                                                                                                                       |      | CUB       | ED     | SW  | SW  | NE | 05  | 23S | 31E   | 613049.0 | 3578138.0 * |     | 1108     | 4291       | 354         | 3937         |
| <a href="#">C 03351</a>                                                                                                                                                                                                                                                                                                                       |      | C         | ED     | SE  | NW  | SE | 04  | 23S | 31E   | 614916.6 | 3577861.1   |     | 1311     | 320        | 168         | 152          |
| <a href="#">C 02769 POD2</a>                                                                                                                                                                                                                                                                                                                  |      | CUB       | ED     | SE  | NE  | SE | 33  | 22S | 31E   | 615260.6 | 3579312.3   |     | 1407     | 753        | 428         | 325          |
| <a href="#">C 02687</a>                                                                                                                                                                                                                                                                                                                       |      | CUB       | ED     | SE  | NE  | SE | 33  | 22S | 31E   | 615246.0 | 3579364.0 * |     | 1414     | 779        |             |              |
| <a href="#">C 02769</a>                                                                                                                                                                                                                                                                                                                       |      | CUB       | ED     | NE  | NE  | SE | 33  | 22S | 31E   | 615246.0 | 3579564.0 * |     | 1510     | 765        |             |              |
| <a href="#">C 02776</a>                                                                                                                                                                                                                                                                                                                       |      | CUB       | ED     | NE  | NW  | NW | 05  | 23S | 31E   | 612440.0 | 3578731.0 * |     | 1525     | 661        |             |              |
| <a href="#">C 03140</a>                                                                                                                                                                                                                                                                                                                       |      | CUB       | ED     | SE  | NE  | SE | 04  | 23S | 31E   | 615266.0 | 3577758.0 * |     | 1643     | 684        |             |              |
| <a href="#">C 02725</a>                                                                                                                                                                                                                                                                                                                       |      | CUB       | ED     | NW  | NW  | NW | 05  | 23S | 31E   | 612240.0 | 3578731.0 * |     | 1725     | 532        |             |              |
| <a href="#">C 02775</a>                                                                                                                                                                                                                                                                                                                       |      | CUB       | ED     | NW  | NW  | NW | 05  | 23S | 31E   | 612240.0 | 3578731.0 * |     | 1725     | 529        |             |              |
| <a href="#">C 02417</a>                                                                                                                                                                                                                                                                                                                       |      | CUB       | ED     | SE  | SE  | SE | 29  | 22S | 31E   | 613623.0 | 3580554.0 * |     | 1823     | 681        |             |              |
| <a href="#">C 02773</a>                                                                                                                                                                                                                                                                                                                       |      | CUB       | ED     | SE  | NW  | SW | 03  | 23S | 31E   | 615668.0 | 3577762.0 * |     | 1975     | 880        |             |              |

Average Depth to Water: 316

Minimum Depth: 168 feet

Maximum Depth: 428 feet



Record Count: 15

UTM Filters (in meters):

Easting: 613965  
Northing: 3578763  
Radius: 002000

\* 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.

# Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE  
quarters are smallest to largest

NAD83 UTM in meters

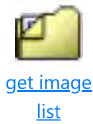
| Well Tag | POD Nbr      | Q64 | Q16 | Q4 | Sec | Tws | Rng | X        | Y         | Map                                                                                 |
|----------|--------------|-----|-----|----|-----|-----|-----|----------|-----------|-------------------------------------------------------------------------------------|
| NA       | C 04772 POD1 | NW  | NW  | NW | 04  | 23S | 31E | 613895.0 | 3578780.5 |  |

\* UTM location was derived from PLSS - see Help

|                   |             |                      |                       |                  |            |
|-------------------|-------------|----------------------|-----------------------|------------------|------------|
| Driller License:  | 1833        | Driller Company:     | VISION RESOURCES, INC |                  |            |
| Driller Name:     | JASON MALEY |                      |                       |                  |            |
| Drill Start Date: | 2023-12-18  | Drill Finish Date:   | 2023-12-18            | Plug Date:       | 2023-12-22 |
| Log File Date:    | 2024-01-12  | PCW Rcv Date:        |                       | Source:          |            |
| Pump Type:        |             | Pipe Discharge Size: |                       | Estimated Yield: |            |
| Casing Size:      |             | Depth Well:          | 55                    | Depth Water:     |            |

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.

# Water Right Summary



|                  |                        |              |       |                  |
|------------------|------------------------|--------------|-------|------------------|
| WR File Number:  | C 04772                | Subbasin:    | CUB   | Cross Reference: |
| Primary Purpose: | MON MONITORING WELL    |              |       |                  |
| Primary Status:  | PMT Permit             |              |       |                  |
| Total Acres:     |                        | Subfile:     |       | Header:          |
| Total Diversion: | 0.000                  | Cause/Case:  |       |                  |
| Owner:           | DEVON ENERGY RESOURCES | Owner Class: | Owner |                  |
| Contact:         | DALE WOODALL           |              |       |                  |

## Documents on File

(acre-feet per annum)

| Transaction Images | Trn #  | Doc  | File/Act   | Status 1 | Status 2 | Transaction Desc. | From/To | Acres | Diversion | Consumptive |
|--------------------|--------|------|------------|----------|----------|-------------------|---------|-------|-----------|-------------|
| _get_images        | 751175 | EXPL | 2023-09-19 | PMT      | APR      | C-4772 POD1       | T       | 0.000 | 0.000     |             |

## Current Points of Diversion

| POD Number                   | Well Tag | Source | Q64 | Q16 | Q4 | Sec | TwS | Rng | X        | Y         | Map | Other Location Desc |
|------------------------------|----------|--------|-----|-----|----|-----|-----|-----|----------|-----------|-----|---------------------|
| <a href="#">C 04772-POD1</a> | NA       |        | NW  | NW  | NW | 04  | 23S | 31E | 613895.0 | 3578780.5 |     |                     |

\* UTM location was derived from PLSS - see Help

## Source

| Acres | Diversion | CU | Use | Priority | Source | Description |
|-------|-----------|----|-----|----------|--------|-------------|
| 0.000 | 0.000     |    | MON |          | GW     |             |

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.



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

North Pure Gold 4F

|                                                                                                                             |                                                                                                                                                                             |                            |                                         |                                                                                                                                             |                                                                     |                                                   |                                |                    |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------|--------------------------------|--------------------|
| 1. GENERAL AND WELL LOCATION                                                                                                | OSE POD NO. (WELL NO.)<br>C-4772 POD1                                                                                                                                       |                            | WELL TAG ID NO.                         |                                                                                                                                             | OSE FILE NO(S)<br>C04772                                            |                                                   |                                |                    |
|                                                                                                                             | WELL OWNER NAME(S)<br>Devon Energy Resources                                                                                                                                |                            |                                         |                                                                                                                                             | PHONE (OPTIONAL)                                                    |                                                   |                                |                    |
|                                                                                                                             | WELL OWNER MAILING ADDRESS<br>205 E. Bender Road #150                                                                                                                       |                            |                                         |                                                                                                                                             | CITY<br>Hobbs                                                       | STATE<br>NM                                       | ZIP<br>88240                   |                    |
|                                                                                                                             | WELL LOCATION (FROM GPS)                                                                                                                                                    | DEGREES<br>LATITUDE<br>32  | MINUTES<br>20                           | SECONDS<br>24.45                                                                                                                            | N                                                                   | * ACCURACY REQUIRED: ONE TENTH OF A SECOND        |                                |                    |
|                                                                                                                             | LONGITUDE<br>-103                                                                                                                                                           | 47                         | 23.0748                                 | W                                                                                                                                           | * DATUM REQUIRED: WGS 84                                            |                                                   |                                |                    |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE |                                                                                                                                                                             |                            |                                         |                                                                                                                                             |                                                                     |                                                   |                                |                    |
| 2. DRILLING & CASING INFORMATION                                                                                            | LICENSE NO.<br>1833                                                                                                                                                         |                            | NAME OF LICENSED DRILLER<br>Jason Maley |                                                                                                                                             |                                                                     | NAME OF WELL DRILLING COMPANY<br>Vision Resources |                                |                    |
|                                                                                                                             | DRILLING STARTED<br>12-18-23                                                                                                                                                | DRILLING ENDED<br>12-18-23 | DEPTH OF COMPLETED WELL (FT)<br>55'     | BORE HOLE DEPTH (FT)<br>55'                                                                                                                 | DEPTH WATER FIRST ENCOUNTERED (FT)<br>Dry hole                      |                                                   |                                |                    |
|                                                                                                                             | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) |                            |                                         |                                                                                                                                             | STATIC WATER LEVEL IN COMPLETED WELL (FT)<br>N/A                    | DATE STATIC MEASURED<br>12-21-23                  |                                |                    |
|                                                                                                                             | DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:                                                                   |                            |                                         |                                                                                                                                             |                                                                     |                                                   |                                |                    |
|                                                                                                                             | DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:   |                            |                                         |                                                                                                                                             | CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/> |                                                   |                                |                    |
|                                                                                                                             | DEPTH (feet bgl)                                                                                                                                                            |                            | BORE HOLE DIAM. (inches)                | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)                                                      | CASING CONNECTION TYPE (add coupling diameter)                      | CASING INSIDE DIAM. (inches)                      | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
|                                                                                                                             | FROM                                                                                                                                                                        | TO                         |                                         |                                                                                                                                             |                                                                     |                                                   |                                |                    |
|                                                                                                                             | 0                                                                                                                                                                           | 45'                        | 6"                                      | 2" PVC SCH40                                                                                                                                | Thread                                                              | 2"                                                | SCH40                          | N/A                |
|                                                                                                                             | 45'                                                                                                                                                                         | 55'                        | 6"                                      | 2" PVC SCH40                                                                                                                                | Thread                                                              | 2"                                                | SCH40                          | .02                |
|                                                                                                                             |                                                                                                                                                                             |                            |                                         |                                                                                                                                             |                                                                     |                                                   |                                |                    |
|                                                                                                                             |                                                                                                                                                                             |                            |                                         |                                                                                                                                             |                                                                     |                                                   |                                |                    |
|                                                                                                                             |                                                                                                                                                                             |                            |                                         |                                                                                                                                             |                                                                     |                                                   |                                |                    |
| 3. ANNULAR MATERIAL                                                                                                         | DEPTH (feet bgl)                                                                                                                                                            |                            | BORE HOLE DIAM. (inches)                | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL<br>(if using Centralizers for Artesian wells- indicate the spacing below) | AMOUNT (cubic feet)                                                 | METHOD OF PLACEMENT                               |                                |                    |
|                                                                                                                             | FROM                                                                                                                                                                        | TO                         |                                         |                                                                                                                                             |                                                                     |                                                   |                                |                    |
|                                                                                                                             |                                                                                                                                                                             |                            |                                         | None Pulled and plugged                                                                                                                     |                                                                     |                                                   |                                |                    |
|                                                                                                                             |                                                                                                                                                                             |                            |                                         |                                                                                                                                             |                                                                     |                                                   |                                |                    |
|                                                                                                                             |                                                                                                                                                                             |                            |                                         |                                                                                                                                             |                                                                     |                                                   |                                |                    |
|                                                                                                                             |                                                                                                                                                                             |                            |                                         |                                                                                                                                             |                                                                     |                                                   |                                |                    |
|                                                                                                                             |                                                                                                                                                                             |                            |                                         |                                                                                                                                             |                                                                     |                                                   |                                |                    |

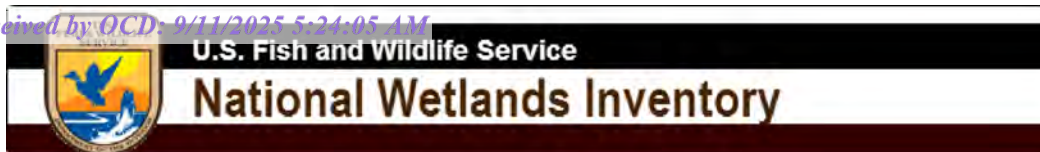
USE OIT JAN 12 2024 PM 1:52

FOR OSE INTERNAL USE

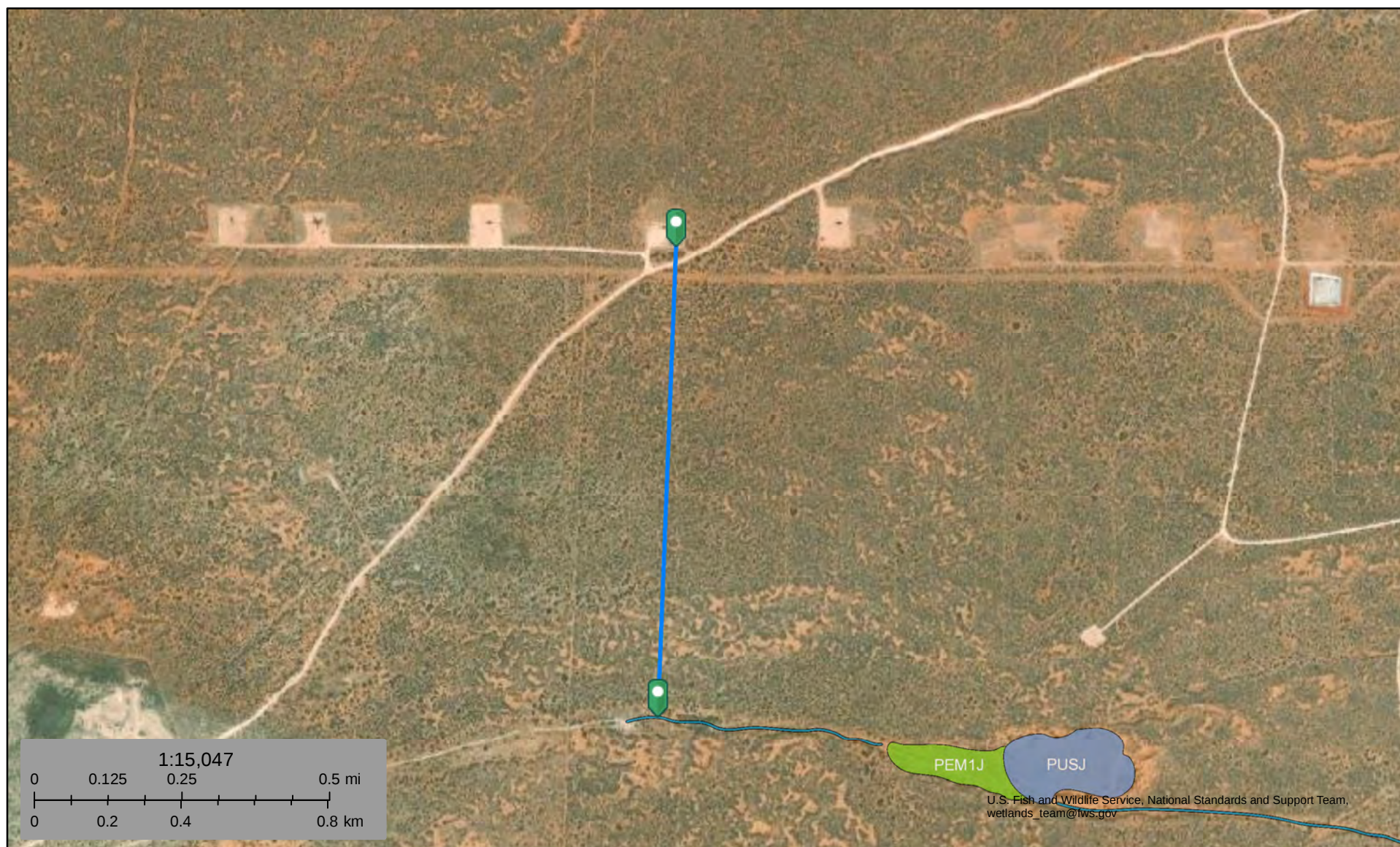
WR-20 WELL RECORD & LOG (Version 09/22/2022)

|                         |                    |                |
|-------------------------|--------------------|----------------|
| FILE NO. C-4772         | POD NO. 1          | TRN NO. 751175 |
| LOCATION 23S-31E-04 111 | WELL TAG ID NO. NA | PAGE 1 OF 2    |





Intermittent 3,546 feet



February 25, 2023

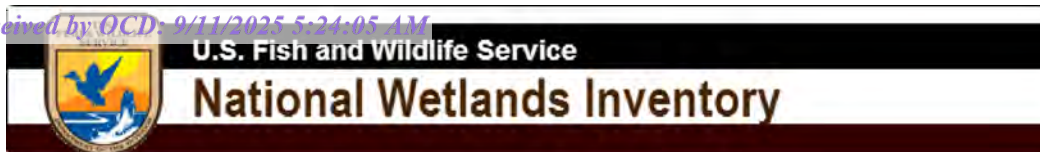
**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



Pond 4,508 feet



February 25, 2023

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

Active & Inactive Points of Diversion  
(with Ownership Information)

| (acre ft per annum)     |           |     |           | (R=POD has been replaced and no longer serves this file, C=the file is closed) |        |                              |          |      |       | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |     |     |    |     |     | (NAD83 UTM in meters) |           | (meters)    |         |          |
|-------------------------|-----------|-----|-----------|--------------------------------------------------------------------------------|--------|------------------------------|----------|------|-------|--------------------------------------------------------------------------|-----|-----|----|-----|-----|-----------------------|-----------|-------------|---------|----------|
| WR File Nbr             | Sub basin | Use | Diversion | Owner                                                                          | County | POD Number                   | Well Tag | Code | Grant | Source                                                                   | q64 | q16 | q4 | Sec | Tws | Range                 | X         | Y           | Map     | Distance |
| <a href="#">C 04772</a> | CUB       | MON | 0.000     | DEVON ENERGY RESOURCES                                                         | ED     | <a href="#">C 04772.POD1</a> | NA       |      |       |                                                                          | NW  | NW  | NW | 04  | 23S | 31E                   | 613895.0  | 3578780.5   |         | 72.2     |
| <a href="#">C 02774</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                                                    | ED     | <a href="#">C 02774</a>      |          |      |       |                                                                          | SW  | NW  | SW | 04  | 23S | 31E                   | 613857.0  | 3577745.0 * |         | 1,023.7  |
| <a href="#">C 02767</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                                                    | ED     | <a href="#">C 02767</a>      |          |      |       |                                                                          | SE  | NW  | SE | 33  | 22S | 31E                   | 614844.0  | 3579360.0 * |         | 1,062.6  |
| <a href="#">C 02768</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                                                    | ED     | <a href="#">C 02768</a>      |          |      |       |                                                                          | SE  | NW  | SE | 33  | 22S | 31E                   | 614844.0  | 3579360.0 * |         | 1,062.6  |
| <a href="#">C 02664</a> | CUB       | MON | 0.000     | SANDIA NATIONAL LABORATORIES                                                   | ED     | <a href="#">C 02664</a>      |          |      |       | Shallow                                                                  | SW  | SW  | NE | 05  | 23S | 31E                   | 613049.0  | 3578138.0 * |         | 1,108.9  |
| <a href="#">C 03351</a> | C         | STK | 3.000     | BUREAU OF LAND MANAGEMENT                                                      | ED     | <a href="#">C 03351</a>      |          |      |       | Shallow                                                                  | SE  | NW  | SE | 04  | 23S | 31E                   | 614916.6  | 3577861.1   |         | 1,311.1  |
| <a href="#">C 02769</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                                                    | ED     | <a href="#">C 02769.POD2</a> |          |      |       | Artesian                                                                 | SE  | NE  | SE | 33  | 22S | 31E                   | 615260.6  | 3579312.3   |         | 1,407.2  |
| <a href="#">C 02687</a> | CUB       | MON | 0.000     | SANDIA NATIONAL LABORATORIES                                                   | ED     | <a href="#">C 02687</a>      |          |      |       |                                                                          | SE  | NE  | SE | 33  | 22S | 31E                   | 615246.0  | 3579364.0 * |         | 1,415.0  |
| <a href="#">C 02769</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                                                    | ED     | <a href="#">C 02769</a>      |          |      |       |                                                                          | NE  | NE  | SE | 33  | 22S | 31E                   | 615246.0  | 3579564.0 * |         | 1,510.8  |
| <a href="#">C 02776</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                                                    | ED     | <a href="#">C 02776</a>      |          |      |       |                                                                          | NE  | NW  | NW | 05  | 23S | 31E                   | 612440.0  | 3578731.0 * |         | 1,525.3  |
| <a href="#">C 03140</a> | CUB       | MON | 0.000     | US DEPT OF ENERGY                                                              | ED     | <a href="#">C 03140</a>      |          |      |       | Shallow                                                                  | SE  | NE  | SE | 04  | 23S | 31E                   | 615266.0  | 3577758.0 * |         | 1,644.0  |
| <a href="#">C 02725</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY, WIPP                                                     | ED     | <a href="#">C 02725</a>      |          |      |       |                                                                          | NW  | NW  | NW | 05  | 23S | 31E                   | 612240.0  | 3578731.0 * |         | 1,725.3  |
| <a href="#">C 02775</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                                                    | ED     | <a href="#">C 02775</a>      |          |      |       |                                                                          | NW  | NW  | NW | 05  | 23S | 31E                   | 612240.0  | 3578731.0 * |         | 1,725.3  |
| <a href="#">C 02417</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY                                                           | ED     | <a href="#">C 02417</a>      |          |      |       | Artesian                                                                 | SE  | SE  | SE | 29  | 22S | 31E                   | 613623.0  | 3580554.0 * |         | 1,823.4  |
| <a href="#">C 02773</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                                                    | ED     | <a href="#">C 02773</a>      |          |      |       |                                                                          | SE  | NW  | SW | 03  | 23S | 31E                   | 615668.0  | 3577762.0 * |         | 1,975.4  |
| <a href="#">C 04406</a> | CUB       | MON | 0.000     | US DEPARTMENT OF ENERGY                                                        | ED     | <a href="#">C 04406.POD1</a> | NA       |      |       |                                                                          | NE  | SE  | SW | 28  | 22S | 31E                   | 614517.6  | 3580823.4   |         | 2,133.2  |
|                         |           |     |           |                                                                                | ED     | <a href="#">C 04406.POD2</a> | NA       |      |       |                                                                          | NE  | SE  | SW | 28  | 22S | 31E                   | 614517.6  | 3580823.4   |         | 2,133.2  |
| <a href="#">C 02757</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                                                    | ED     | <a href="#">C 02757</a>      |          |      |       |                                                                          | SE  | SE  | SE | 28  | 22S | 31E                   | 615232.0  | 3580571.0 * |         | 2,207.7  |
| <a href="#">C 03207</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY                                                           | ED     | <a href="#">C 03207</a>      |          |      |       | Shallow                                                                  | SE  | NE  | SE | 29  | 22S | 31E                   | 613618.0  | 3580956.0 * |         | 2,220.3  |
| <a href="#">C 02420</a> | CUB       | EXP | 0.000     | U. S. DEPT. OF ENERGY                                                          | ED     | <a href="#">C 02420</a>      |          |      |       | Artesian                                                                 | SE  | NE  | SW | 28  | 22S | 31E                   | 614423.0  | 3580964.0 * |         | 2,248.1  |
| <a href="#">C 02421</a> | CUB       | EXP | 0.000     | U. S. DEPT. OF ENERGY                                                          | ED     | <a href="#">C 02421</a>      |          |      |       | Artesian                                                                 | SE  | NE  | SW | 28  | 22S | 31E                   | 614423.0  | 3580964.0 * |         | 2,248.1  |
| <a href="#">C 02422</a> | CUB       | EXP | 0.000     | U. S. DEPT. OF ENERGY                                                          | ED     | <a href="#">C 02422</a>      |          |      |       | Artesian                                                                 | SE  | NE  | SW | 28  | 22S | 31E                   | 614423.0  | 3580964.0 * |         | 2,248.1  |
| <a href="#">C 02423</a> | CUB       | EXP | 0.000     | U. S. DEPT. OF ENERGY                                                          | ED     | <a href="#">C 02423</a>      |          |      |       | Artesian                                                                 | SE  | NE  | SW | 28  | 22S | 31E                   | 614423.0  | 3580964.0 * |         | 2,248.1  |
| <a href="#">C 02424</a> | CUB       | EXP | 0.000     | U. S. DEPT. OF ENERGY                                                          | ED     | <a href="#">C 02424</a>      |          |      |       | Artesian                                                                 | SE  | NE  | SW | 28  | 22S | 31E                   | 614423.0  | 3580964.0 * |         | 2,248.1  |
| <a href="#">C 02425</a> | CUB       | EXP | 0.000     | U. S. DEPT. OF ENERGY                                                          | ED     | <a href="#">C 02425</a>      |          |      |       | Artesian                                                                 | SE  | NE  | SW | 28  | 22S | 31E                   | 614423.0  | 3580964.0 * |         | 2,248.1  |
| <a href="#">C 02426</a> | CUB       | EXP | 0.000     | U. S. DEPT. OF ENERGY                                                          | ED     | <a href="#">C 02426</a>      |          |      |       | Artesian                                                                 | SE  | NE  | SW | 28  | 22S | 31E                   | 614423.0  | 3580964.0 * |         | 2,248.1  |
| <a href="#">C 04200</a> | CUB       | EXP | 0.000     | JIMMY MILLS GST TRUST                                                          | ED     | <a href="#">C 04200.POD5</a> | NA       |      |       |                                                                          | SE  | SE  | 06 | 23S | 31E | 612138.8              | 3577393.1 |             | 2,282.9 |          |
|                         |           |     |           |                                                                                | ED     | <a href="#">C 04200.POD4</a> | NA       |      |       |                                                                          | SE  | SE  | 06 | 23S | 31E | 611996.2              | 3577521.8 |             | 2,327.4 |          |
| <a href="#">C 02761</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                                                    | ED     | <a href="#">C 02761.POD1</a> |          |      |       |                                                                          | NE  | NE  | SE | 29  | 22S | 31E                   | 613651.0  | 3581101.5   |         | 2,359.5  |
| <a href="#">C 02492</a> | CUB       | COM | 105.000   | THE JIMMY MILLS GST TRUST                                                      | ED     | <a href="#">C 02492</a>      |          |      |       | Shallow                                                                  | SE  | SE  | SE | 06  | 23S | 31E                   | 612056.0  | 3577320.0 * |         | 2,393.0  |
| <a href="#">C 02865</a> | CUB       | EXP | 0.000     | STACY MILLS                                                                    | ED     | <a href="#">C 02865</a>      |          |      |       |                                                                          | SE  | SE  | SE | 06  | 23S | 31E                   | 612056.0  | 3577320.0 * |         | 2,393.0  |
| <a href="#">C 02760</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                                                    | ED     | <a href="#">C 02760</a>      |          |      |       |                                                                          | NE  | NE  | SE | 29  | 22S | 31E                   | 613618.0  | 3581156.0 * |         | 2,418.0  |
| <a href="#">C 02761</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                                                    | ED     | <a href="#">C 02761</a>      |          |      |       |                                                                          | NE  | NE  | SE | 29  | 22S | 31E                   | 613618.0  | 3581156.0 * |         | 2,418.0  |
| <a href="#">C 02764</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                                                    | ED     | <a href="#">C 02764</a>      |          |      |       |                                                                          | NE  | NE  | SE | 29  | 22S | 31E                   | 613618.0  | 3581156.0 * |         | 2,418.0  |
| <a href="#">C 04200</a> | CUB       | EXP | 0.000     | JIMMY MILLS GST TRUST                                                          | ED     | <a href="#">C 04200.POD3</a> | NA       |      |       |                                                                          | NE  | NE  | 07 | 23S | 31E | 612130.3              | 3577147.3 |             | 2,444.7 |          |
| <a href="#">C 02416</a> | CUB       | MON | 0.000     | U.S. DEPT OF ENERGY                                                            | ED     | <a href="#">C 02416</a>      |          |      |       | Artesian                                                                 | SW  | NE  | SE | 28  | 22S | 31E                   | 615027.0  | 3580973.0 * |         | 2,451.9  |

| (acre ft per annum)     |           |     |           |                                                     | (R=POD has been replaced and no longer serves this file, C=the file is closed) |                              |          |      |       | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |     |     |    |     | (NAD83 UTM in meters) |       | (meters) |             |     |          |
|-------------------------|-----------|-----|-----------|-----------------------------------------------------|--------------------------------------------------------------------------------|------------------------------|----------|------|-------|--------------------------------------------------------------------------|-----|-----|----|-----|-----------------------|-------|----------|-------------|-----|----------|
| WR File Nbr             | Sub basin | Use | Diversion | Owner                                               | County                                                                         | POD Number                   | Well Tag | Code | Grant | Source                                                                   | q64 | q16 | q4 | Sec | Tws                   | Range | X        | Y           | Map | Distance |
| <a href="#">C 02766</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                         | ED                                                                             | <a href="#">C 02766</a>      |          |      |       |                                                                          | SW  | SW  | SW | 29  | 22S                   | 31E   | 612216.0 | 3580541.0 * |     | 2,494.0  |
| <a href="#">C 02418</a> | CUB       | MON | 0.000     | U.S.DEPT. OF ENERGY                                 | ED                                                                             | <a href="#">C 02418</a>      |          |      |       | Artesian                                                                 | SW  | NE  | SW | 29  | 22S                   | 31E   | 612613.0 | 3580948.0 * |     | 2,569.5  |
| <a href="#">C 02419</a> | CUB       | MON | 0.000     | U.S.DEPT OF ENERGY                                  | ED                                                                             | <a href="#">C 02419</a>      |          |      |       | Artesian                                                                 | SW  | NE  | SW | 29  | 22S                   | 31E   | 612613.0 | 3580948.0 * |     | 2,569.5  |
| <a href="#">C 04200</a> | CUB       | EXP | 0.000     | JIMMY MILLS GST TRUST                               | ED                                                                             | <a href="#">C 04200.POD2</a> | NA       |      |       |                                                                          |     | NE  | NE | 07  | 23S                   | 31E   | 611893.1 | 3577123.1   |     | 2,642.4  |
|                         |           |     |           |                                                     | ED                                                                             | <a href="#">C 04200.POD1</a> | NA       |      |       |                                                                          |     | NE  | NE | 07  | 23S                   | 31E   | 611802.8 | 3577058.6   |     | 2,753.2  |
| <a href="#">C 02811</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                         | ED                                                                             | <a href="#">C 02811</a>      |          |      |       |                                                                          | NE  | SE  | NE | 29  | 22S                   | 31E   | 613613.0 | 3581558.0 * |     | 2,817.1  |
| <a href="#">C 03668</a> | C         | STK | 3.000     | J T MILLS 2005 GST TRUST                            | ED                                                                             | <a href="#">C 02492.POD2</a> |          |      |       | Shallow                                                                  | SW  | NE  | NE | 07  | 23S                   | 31E   | 611767.4 | 3576996.6   |     | 2,819.5  |
| <a href="#">C 02737</a> | C         | PRO | 0.000     | US DEPARTMENT OF ENERGY WASTE ISOLATION PILOT PLANT | ED                                                                             | <a href="#">C 02737</a>      |          |      |       | Shallow                                                                  | NE  | SE  | NE | 29  | 22S                   | 31E   | 613604.5 | 3581567.9   |     | 2,828.0  |
| <a href="#">C 04402</a> | CUB       | MON | 0.000     | US DEPARTMENT OF ENERGY                             | ED                                                                             | <a href="#">C 04402.POD1</a> | NA       |      |       |                                                                          | NW  | SW  | NE | 29  | 22S                   | 31E   | 612911.0 | 3581565.9   |     | 2,994.5  |
|                         |           |     |           |                                                     | ED                                                                             | <a href="#">C 04402.POD2</a> | NA       |      |       |                                                                          | NW  | SW  | NE | 29  | 22S                   | 31E   | 612911.0 | 3581565.9   |     | 2,994.5  |
| <a href="#">C 04712</a> | CUB       | MON | 0.000     | HARVARD PETROLEUM COMPANY LLC                       | ED                                                                             | <a href="#">C 04712.POD5</a> | NA       |      |       |                                                                          | SE  | SE  | SW | 09  | 23S                   | 31E   | 614392.9 | 3575754.4   |     | 3,038.9  |
| <a href="#">C 04776</a> | CUB       | MON | 0.000     | DEVON ENERGY RESOURCES                              | ED                                                                             | <a href="#">C 04776.POD1</a> | NA       |      |       |                                                                          | SW  | SW  | SW | 09  | 23S                   | 31E   | 613953.1 | 3575651.8   |     | 3,111.2  |
| <a href="#">C 04712</a> | CUB       | MON | 0.000     | HARVARD PETROLEUM COMPANY LLC                       | ED                                                                             | <a href="#">C 04712.POD6</a> | NA       |      |       |                                                                          | SW  | SW  | SE | 08  | 23S                   | 31E   | 613146.6 | 3575740.1   |     | 3,131.7  |
| <a href="#">C 04399</a> | CUB       | MON | 0.000     | US DEPARTMENT OF ENERGY                             | ED                                                                             | <a href="#">C 04399.POD1</a> | NA       |      |       |                                                                          | NE  | NW  | NW | 28  | 22S                   | 31E   | 613937.1 | 3581991.7   |     | 3,228.8  |
| <a href="#">C 02662</a> | CUB       | MON | 0.000     | WIPP U.S. DEPARTMENT OF ENERGY                      | ED                                                                             | <a href="#">C 02662</a>      |          |      |       |                                                                          | NW  | NE  | NE | 29  | 22S                   | 31E   | 613409.0 | 3581960.0 * |     | 3,245.0  |
| <a href="#">C 02765</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                         | ED                                                                             | <a href="#">C 02765</a>      |          |      |       |                                                                          | NW  | NE  | NE | 29  | 22S                   | 31E   | 613409.0 | 3581960.0 * |     | 3,245.0  |
| <a href="#">C 02758</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                         | ED                                                                             | <a href="#">C 02758</a>      |          |      |       |                                                                          | SW  | NE  | NW | 29  | 22S                   | 31E   | 612604.0 | 3581752.0 * |     | 3,284.3  |
| <a href="#">C 02762</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                         | ED                                                                             | <a href="#">C 02762</a>      |          |      |       |                                                                          | SW  | NE  | NW | 29  | 22S                   | 31E   | 612604.0 | 3581752.0 * |     | 3,284.3  |
| <a href="#">C 02763</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                         | ED                                                                             | <a href="#">C 02763</a>      |          |      |       |                                                                          | SW  | NE  | NW | 29  | 22S                   | 31E   | 612604.0 | 3581752.0 * |     | 3,284.3  |
| <a href="#">C 02960</a> | CUB       | EXP | 0.000     | US DEPT. OF ENERGY CARLSBAD FIELD OFFICE, WIPP      | ED                                                                             | <a href="#">C 02960.EXPL</a> |          |      |       |                                                                          | SW  | SW  | SW | 31  | 22S                   | 31E   | 610620.0 | 3578915.0 * |     | 3,348.5  |
| <a href="#">C 02505</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY                                | ED                                                                             | <a href="#">C 02505</a>      |          |      |       | Shallow                                                                  | SE  | SE  | SE | 20  | 22S                   | 31E   | 613604.0 | 3582162.0 * |     | 3,418.1  |
| <a href="#">C 02506</a> | CUB       | MON | 0.000     | (WIPP) U.S.DEPT.OF ENERGY                           | ED                                                                             | <a href="#">C 02506</a>      |          |      |       | Shallow                                                                  | SE  | SE  | SE | 20  | 22S                   | 31E   | 613604.0 | 3582162.0 * |     | 3,418.1  |
| <a href="#">C 02507</a> | CUB       | MON | 0.000     | (WIPP) U.S.DEPT.OF ENERGY                           | ED                                                                             | <a href="#">C 02507</a>      |          |      |       | Shallow                                                                  | SE  | SE  | SE | 20  | 22S                   | 31E   | 613604.0 | 3582162.0 * |     | 3,418.1  |
| <a href="#">C 02527</a> | CUB       | EXP | 0.000     | U.S. D.O.E. (WIPP)                                  | ED                                                                             | <a href="#">C 02527</a>      |          |      |       |                                                                          | SE  | SE  | SE | 20  | 22S                   | 31E   | 613604.0 | 3582162.0 * |     | 3,418.1  |
| <a href="#">C 02528</a> | CUB       | EXP | 0.000     | U. S. D. O. E. (WIPP)                               | ED                                                                             | <a href="#">C 02528</a>      |          |      |       |                                                                          | SE  | SE  | SE | 20  | 22S                   | 31E   | 613604.0 | 3582162.0 * |     | 3,418.1  |
| <a href="#">C 02752</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                         | ED                                                                             | <a href="#">C 02752</a>      |          |      |       |                                                                          | SE  | SE  | SE | 20  | 22S                   | 31E   | 613604.0 | 3582162.0 * |     | 3,418.1  |
| <a href="#">C 02801</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                         | ED                                                                             | <a href="#">C 02801</a>      |          |      |       |                                                                          | SE  | SE  | SE | 20  | 22S                   | 31E   | 613604.0 | 3582162.0 * |     | 3,418.1  |
| <a href="#">C 02802</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                         | ED                                                                             | <a href="#">C 02802</a>      |          |      |       |                                                                          | SE  | SE  | SE | 20  | 22S                   | 31E   | 613604.0 | 3582162.0 * |     | 3,418.1  |
| <a href="#">C 02803</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                         | ED                                                                             | <a href="#">C 02803</a>      |          |      |       |                                                                          | SE  | SE  | SE | 20  | 22S                   | 31E   | 613604.0 | 3582162.0 * |     | 3,418.1  |
| <a href="#">C 02981</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY                                | ED                                                                             | <a href="#">C 02981</a>      |          |      |       |                                                                          | SE  | SE  | SE | 20  | 22S                   | 31E   | 613604.0 | 3582162.0 * |     | 3,418.1  |
| <a href="#">C 02983</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY                                | ED                                                                             | <a href="#">C 02983</a>      |          |      |       |                                                                          | SE  | SE  | SE | 20  | 22S                   | 31E   | 613604.0 | 3582162.0 * |     | 3,418.1  |
| <a href="#">C 02987</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY                                | ED                                                                             | <a href="#">C 02987</a>      |          |      |       |                                                                          | SE  | SE  | SE | 20  | 22S                   | 31E   | 613604.0 | 3582162.0 * |     | 3,418.1  |
| <a href="#">C 02991</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY                                | ED                                                                             | <a href="#">C 02991</a>      |          |      |       |                                                                          | SE  | SE  | SE | 20  | 22S                   | 31E   | 613604.0 | 3582162.0 * |     | 3,418.1  |
| <a href="#">C 02989</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY                                | ED                                                                             | <a href="#">C 02989</a>      |          |      |       |                                                                          | SW  | SE  | SE | 20  | 22S                   | 31E   | 613404.0 | 3582162.0 * |     | 3,445.0  |
| <a href="#">C 02685</a> | CUB       | MON | 0.000     | SANDIA NATIONAL LABORATORIES                        | ED                                                                             | <a href="#">C 02685</a>      |          |      |       |                                                                          | NE  | NE  | NE | 28  | 22S                   | 31E   | 615218.0 | 3581978.0 * |     | 3,450.5  |
| <a href="#">C 02677</a> | CUB       | MON | 0.000     | SANDIA NATIONAL LABORATORIES                        | ED                                                                             | <a href="#">C 02677</a>      |          |      |       |                                                                          | NW  | NE  | NW | 29  | 22S                   | 31E   | 612604.0 | 3581952.0 * |     | 3,467.3  |
| <a href="#">C 02759</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP                         | ED                                                                             | <a href="#">C 02759</a>      |          |      |       |                                                                          | NW  | NE  | NW | 29  | 22S                   | 31E   | 612604.0 | 3581952.0 * |     | 3,467.3  |

| (acre ft per annum)     |           |     |           |                             | (R=POD has been replaced and no longer serves this file, C=the file is closed) |                               |          |      |       | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |     |     |    |     |     |          | (NAD83 UTM in meters) |   | (meters) |          |
|-------------------------|-----------|-----|-----------|-----------------------------|--------------------------------------------------------------------------------|-------------------------------|----------|------|-------|--------------------------------------------------------------------------|-----|-----|----|-----|-----|----------|-----------------------|---|----------|----------|
| WR File Nbr             | Sub basin | Use | Diversion | Owner                       | County                                                                         | POD Number                    | Well Tag | Code | Grant | Source                                                                   | q64 | q16 | q4 | Sec | Tws | Range    | X                     | Y | Map      | Distance |
| <a href="#">C 04724</a> | CUB       | MON | 0.000     | DEVON ENERGY                | ED                                                                             | <a href="#">C 04724.POD1</a>  | NA       |      |       | SE                                                                       | SW  | SW  | 10 | 23S | 31E | 615709.7 | 3575738.3             |   | 3,491.8  |          |
| <a href="#">C 03138</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY        | ED                                                                             | <a href="#">C 03138</a>       |          |      |       | SW                                                                       | SW  | SW  | 26 | 22S | 31E | 617043.0 | 3580591.0 *           |   | 3,579.9  |          |
| <a href="#">C 02980</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY        | ED                                                                             | <a href="#">C 02980</a>       |          |      |       | NE                                                                       | SE  | SE  | 20 | 22S | 31E | 613604.0 | 3582362.0 *           |   | 3,617.1  |          |
| <a href="#">C 02982</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY        | ED                                                                             | <a href="#">C 02982</a>       |          |      |       | NE                                                                       | SE  | SE  | 20 | 22S | 31E | 613604.0 | 3582362.0 *           |   | 3,617.1  |          |
| <a href="#">C 02984</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY        | ED                                                                             | <a href="#">C 02984</a>       |          |      |       | NE                                                                       | SE  | SE  | 20 | 22S | 31E | 613604.0 | 3582362.0 *           |   | 3,617.1  |          |
| <a href="#">C 02985</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY        | ED                                                                             | <a href="#">C 02985</a>       |          |      |       | NE                                                                       | SE  | SE  | 20 | 22S | 31E | 613604.0 | 3582362.0 *           |   | 3,617.1  |          |
| <a href="#">C 02988</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY        | ED                                                                             | <a href="#">C 02988</a>       |          |      |       | NE                                                                       | SE  | SE  | 20 | 22S | 31E | 613604.0 | 3582362.0 *           |   | 3,617.1  |          |
| <a href="#">C 04325</a> | CUB       | POL | 0.000     | XTO ENERGY INC              | ED                                                                             | <a href="#">C 04325.POD5</a>  | NA       |      |       | SE                                                                       | SE  | NE  | 01 | 23S | 30E | 610375.9 | 3578216.3             |   | 3,630.5  |          |
| <a href="#">C 02753</a> |           |     |           |                             | ED                                                                             | <a href="#">C 04325.POD3</a>  | NA       |      |       | SE                                                                       | SE  | NE  | 01 | 23S | 30E | 610362.7 | 3578231.5             |   | 3,641.3  |          |
|                         | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP | ED                                                                             | <a href="#">C 02753</a>       |          |      |       | NW                                                                       | SE  | SE  | 20 | 22S | 31E | 613404.0 | 3582362.0 *           |   | 3,642.5  |          |
| <a href="#">C 02986</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY        | ED                                                                             | <a href="#">C 02986</a>       |          |      |       | NW                                                                       | SE  | SE  | 20 | 22S | 31E | 613404.0 | 3582362.0 *           |   | 3,642.5  |          |
| <a href="#">C 02990</a> | CUB       | MON | 0.000     | U.S. DEPT OF ENERGY         | ED                                                                             | <a href="#">C 02990</a>       |          |      |       | NW                                                                       | SE  | SE  | 20 | 22S | 31E | 613404.0 | 3582362.0 *           |   | 3,642.5  |          |
| <a href="#">C 04325</a> | CUB       | POL | 0.000     | XTO ENERGY INC              | ED                                                                             | <a href="#">C 04325.POD4</a>  | NA       |      |       | SE                                                                       | SE  | NE  | 01 | 23S | 30E | 610360.0 | 3578239.5             |   | 3,642.8  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 04325.POD6</a>  | NA       |      |       | SE                                                                       | SE  | NE  | 01 | 23S | 30E | 610360.0 | 3578239.5             |   | 3,642.8  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 04325.POD13</a> | NA       |      |       | SE                                                                       | SE  | NE  | 01 | 23S | 30E | 610356.3 | 3578220.1             |   | 3,649.3  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 04325.POD12</a> | NA       |      |       | SE                                                                       | SE  | NE  | 01 | 23S | 30E | 610350.6 | 3578235.7             |   | 3,652.7  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 04325.POD2</a>  | NA       |      |       | SE                                                                       | SE  | NE  | 01 | 23S | 30E | 610349.6 | 3578234.8             |   | 3,653.8  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 04325.POD10</a> | NA       |      |       | SE                                                                       | SE  | NE  | 01 | 23S | 30E | 610349.4 | 3578231.7             |   | 3,654.4  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 04325.POD7</a>  | NA       |      |       | SE                                                                       | SE  | NE  | 01 | 23S | 30E | 610345.5 | 3578227.4             |   | 3,658.9  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 04325.POD14</a> | NA       |      |       | SE                                                                       | SE  | NE  | 01 | 23S | 30E | 610346.7 | 3578215.7             |   | 3,659.5  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 04325.POD16</a> | NA       |      |       | SE                                                                       | SE  | NE  | 01 | 23S | 30E | 610347.3 | 3578206.7             |   | 3,660.2  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 04325.POD1</a>  | NA       |      |       | SE                                                                       | SE  | NE  | 01 | 23S | 30E | 610341.7 | 3578235.0             |   | 3,661.6  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 04325.POD15</a> | NA       |      |       | SE                                                                       | SE  | NE  | 01 | 23S | 30E | 610339.4 | 3578237.1             |   | 3,663.5  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 04325.POD9</a>  | NA       |      |       | SE                                                                       | SE  | NE  | 01 | 23S | 30E | 610339.4 | 3578232.8             |   | 3,664.2  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 04325.POD8</a>  | NA       |      |       | SE                                                                       | SE  | NE  | 01 | 23S | 30E | 610334.0 | 3578228.5             |   | 3,670.1  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 04325.POD11</a> | NA       |      |       | SE                                                                       | SE  | NE  | 01 | 23S | 30E | 610332.6 | 3578232.8             |   | 3,670.9  |          |
|                         |           |     |           |                             |                                                                                |                               |          |      |       |                                                                          |     |     |    |     |     |          |                       |   |          |          |
| <a href="#">C 03139</a> | CUB       | MON | 0.000     | US DEPT OF ENERGY           | ED                                                                             | <a href="#">C 03139</a>       |          |      |       | SE                                                                       | NE  | SE  | 01 | 23S | 30E | 610424.0 | 3577764.0 *           |   | 3,679.2  |          |
| <a href="#">C 03520</a> | C         | STK | 0.000     | SLASH 46, INC.              | ED                                                                             | <a href="#">C 03520.POD1</a>  |          |      |       | SW                                                                       | NW  | NW  | 07 | 23S | 31E | 610732.6 | 3576905.8             |   | 3,727.9  |          |
| <a href="#">C 04403</a> | CUB       | MON | 0.000     | US DEPARTMENT OF ENERGY     | ED                                                                             | <a href="#">C 04403.POD1</a>  | NA       |      |       | SW                                                                       | SE  | SW  | 20 | 22S | 31E | 612502.6 | 3582213.7             |   | 3,747.8  |          |
| <a href="#">C 03976</a> | CUB       | MON | 0.000     | US DEPARTMENT OF ENERGY     | ED                                                                             | <a href="#">C 03976.POD4</a>  |          |      |       | NW                                                                       | SW  | SE  | 20 | 22S | 31E | 612967.7 | 3582386.7             |   | 3,758.4  |          |
| <a href="#">C 03977</a> | CUB       | EXP | 0.000     | US DEPARTMENT OF ENERGY     | ED                                                                             | <a href="#">C 03977.POD1</a>  |          |      |       | NW                                                                       | SW  | SE  | 20 | 22S | 31E | 612967.7 | 3582386.7             |   | 3,758.4  |          |
| <a href="#">C 03976</a> | CUB       | MON | 0.000     | US DEPARTMENT OF ENERGY     | ED                                                                             | <a href="#">C 03976.POD1</a>  |          |      |       | NW                                                                       | SW  | SE  | 20 | 22S | 31E | 612967.4 | 3582387.3             |   | 3,759.1  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 03976.POD2</a>  |          |      |       | NW                                                                       | SW  | SE  | 20 | 22S | 31E | 612967.4 | 3582387.3             |   | 3,759.1  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 03976.POD3</a>  |          |      |       | NW                                                                       | SW  | SE  | 20 | 22S | 31E | 612967.4 | 3582387.3             |   | 3,759.1  |          |
|                         | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP | ED                                                                             | <a href="#">C 02754</a>       |          |      |       | SE                                                                       | NE  | SE  | 20 | 22S | 31E | 613599.0 | 3582564.0 *           |   | 3,818.6  |          |
| <a href="#">C 04709</a> | CUB       | MON | 0.000     | DEVON ENERGY                | ED                                                                             | <a href="#">C 04709.POD1</a>  | NA       |      |       | SW                                                                       | NW  | NW  | 15 | 23S | 31E | 615508.8 | 3575262.4             |   | 3,825.9  |          |
| <a href="#">C 03559</a> | CUB       | EXP | 0.000     | BOPCO, LP                   | ED                                                                             | <a href="#">C 03559.POD1</a>  |          |      |       | SE                                                                       | SW  | NE  | 01 | 23S | 30E | 609928.3 | 3578260.7             |   | 4,067.8  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 03559.POD2</a>  |          |      |       | SE                                                                       | SW  | NE  | 01 | 23S | 30E | 609928.3 | 3578260.7             |   | 4,067.8  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 03559.POD3</a>  |          |      |       | SE                                                                       | SW  | NE  | 01 | 23S | 30E | 609928.3 | 3578260.7             |   | 4,067.8  |          |
|                         |           |     |           |                             | ED                                                                             | <a href="#">C 03559.POD4</a>  |          |      |       | SE                                                                       | SW  | NE  | 01 | 23S | 30E | 609928.3 | 3578260.7             |   | 4,067.8  |          |

| (acre ft per annum)     |           |     |           |                                | (R=POD has been replaced and no longer serves this file, C=the file is closed) |                                 |          |      |       | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |     |     |    |     | (NAD83 UTM in meters) |       | (meters) |             |     |          |
|-------------------------|-----------|-----|-----------|--------------------------------|--------------------------------------------------------------------------------|---------------------------------|----------|------|-------|--------------------------------------------------------------------------|-----|-----|----|-----|-----------------------|-------|----------|-------------|-----|----------|
| WR File Nbr             | Sub basin | Use | Diversion | Owner                          | County                                                                         | POD Number                      | Well Tag | Code | Grant | Source                                                                   | q64 | q16 | q4 | Sec | Tws                   | Range | X        | Y           | Map | Distance |
|                         |           |     |           |                                | ED                                                                             | <a href="#">C 03559.POD5</a>    |          |      |       | Shallow                                                                  | SE  | SW  | NE | 01  | 23S                   | 30E   | 609912.4 | 3578236.2   |     | 4,086.7  |
| <a href="#">C 02755</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP    | ED                                                                             | <a href="#">C 02755</a>         |          |      |       |                                                                          | SE  | SE  | NE | 20  | 22S                   | 31E   | 613595.0 | 3582966.0 * |     | 4,219.3  |
| <a href="#">C 02777</a> | CUB       | MON | 0.000     | US DEPT OF ENERGY WIPP         | ED                                                                             | <a href="#">C 02777</a>         |          |      |       |                                                                          | SE  | SE  | SE | 10  | 23S                   | 31E   | 616973.8 | 3575662.1   |     | 4,320.7  |
| <a href="#">C 03749</a> | CUB       | MON | 0.000     | US DEPARTMENT OF ENERGY        | ED                                                                             | <a href="#">C 03749.POD1</a>    |          |      |       | Shallow                                                                  |     | NE  | NE | 15  | 23S                   | 31E   | 616973.8 | 3575662.1   |     | 4,320.7  |
| <a href="#">C 03221</a> | CUB       | MON | 0.000     | U.S. DEPART OF ENERGY          | ED                                                                             | <a href="#">C 03221.EXPLORE</a> |          |      |       | Artesian                                                                 | NW  | NE  | NW | 30  | 22S                   | 31E   | 610995.0 | 3581935.0 * |     | 4,345.4  |
| <a href="#">C 03389</a> | C         | STK | 3.000     | JIMMY MILLS 2005 GST TRUST     | ED                                                                             | <a href="#">C 03389</a>         |          |      |       |                                                                          | NW  | NW  | SW | 17  | 23S                   | 31E   | 612316.0 | 3574683.0   |     | 4,400.6  |
| <a href="#">C 03394</a> | C         | PUB | 0.000     | JAMES HAMILTON CONSTRUCTION CO | ED                                                                             | <a href="#">C 03389</a>         |          |      |       |                                                                          | NW  | NW  | SW | 17  | 23S                   | 31E   | 612316.0 | 3574683.0   |     | 4,400.6  |
| <a href="#">C 04855</a> | CUB       | MON | 0.000     | DEVON ENERGY PRODUCTION        | ED                                                                             | <a href="#">C 04855.POD1</a>    | NA       |      |       |                                                                          | NE  | SW  | SW | 11  | 23S                   | 31E   | 617417.6 | 3575936.7   |     | 4,461.9  |
| <a href="#">C 04387</a> | CUB       | MON | 0.000     | XTO ENERGY INC                 | ED                                                                             | <a href="#">C 04387.POD1</a>    | NA       |      |       |                                                                          | SE  | NE  | SW | 36  | 22S                   | 30E   | 609542.2 | 3579414.5   |     | 4,470.5  |
| <a href="#">C 04512</a> | CUB       | MON | 0.000     | XTO ENERGY INC                 | ED                                                                             | <a href="#">C 04512.POD1</a>    | NA       |      |       |                                                                          | NW  | SE  | NW | 01  | 23S                   | 30E   | 609435.1 | 3578369.0   |     | 4,547.0  |
|                         |           |     |           |                                | ED                                                                             | <a href="#">C 04512.POD2</a>    | NA       |      |       |                                                                          | NW  | SE  | NW | 01  | 23S                   | 30E   | 609437.0 | 3578336.6   |     | 4,548.0  |
|                         |           |     |           |                                | ED                                                                             | <a href="#">C 04512.POD3</a>    | NA       |      |       |                                                                          | NW  | SE  | NW | 01  | 33S                   | 30E   | 609437.0 | 3578308.9   |     | 4,550.7  |
| <a href="#">C 03561</a> | CUB       | EXP | 0.000     | BOPCO, LP                      | ED                                                                             | <a href="#">C 03561.POD4</a>    |          |      |       |                                                                          | SW  | NE  | SW | 36  | 22S                   | 30E   | 609418.9 | 3579425.4   |     | 4,594.1  |
|                         |           |     |           |                                | ED                                                                             | <a href="#">C 03561.POD5</a>    |          |      |       |                                                                          | SW  | NE  | SW | 36  | 22S                   | 30E   | 609418.9 | 3579425.4   |     | 4,594.1  |
|                         |           |     |           |                                | ED                                                                             | <a href="#">C 03561.POD3</a>    |          |      |       |                                                                          | SW  | NE  | SW | 36  | 22S                   | 30E   | 609392.8 | 3579425.2   |     | 4,619.9  |
| <a href="#">C 02684</a> | CUB       | MON | 0.000     | SANDIA NATIONAL LABORATORIES   | ED                                                                             | <a href="#">C 02684</a>         |          |      |       |                                                                          | SE  | NE  | NE | 20  | 22S                   | 31E   | 613590.0 | 3583368.0 * |     | 4,620.2  |
| <a href="#">C 02756</a> | CUB       | MON | 0.000     | U.S. DEPT. OF ENERGY - WIPP    | ED                                                                             | <a href="#">C 02756</a>         |          |      |       |                                                                          | SW  | SE  | SE | 26  | 22S                   | 31E   | 618250.0 | 3580606.0 * |     | 4,664.5  |
| <a href="#">C 03152</a> | CUB       | MON | 0.000     | U.S. DEPT OF ENERGY            | ED                                                                             | <a href="#">C 03152</a>         |          |      |       | Shallow                                                                  | SW  | SE  | SE | 26  | 22S                   | 31E   | 618250.0 | 3580606.0 * |     | 4,664.5  |
| <a href="#">C 03561</a> | CUB       | EXP | 0.000     | BOPCO, LP                      | ED                                                                             | <a href="#">C 03561.POD2</a>    |          |      |       |                                                                          | SW  | NE  | SW | 36  | 22S                   | 30E   | 609314.3 | 3579424.3   |     | 4,697.5  |
|                         |           |     |           |                                | ED                                                                             | <a href="#">C 03561.POD1</a>    |          |      |       |                                                                          | SW  | NE  | SW | 36  | 22S                   | 30E   | 609288.5 | 3579393.2   |     | 4,718.8  |
| <a href="#">C 03222</a> | CUB       | MON | 0.000     | U.S. DEPART OF ENERGY          | ED                                                                             | <a href="#">C 03222.EXPLORE</a> |          |      |       | Shallow                                                                  | NW  | NW  | SE | 12  | 23S                   | 30E   | 609833.0 | 3576349.0 * |     | 4,785.5  |
| <a href="#">C 04943</a> | CUB       | EXP | 0.000     | PILOT WATER SOLUTIONS          | ED                                                                             | <a href="#">C 04943.POD1</a>    | NA       |      |       |                                                                          | NE  | NE  | NE | 35  | 22S                   | 31E   | 618500.0 | 3580485.1   |     | 4,851.0  |
| <a href="#">C 02683</a> | CUB       | MON | 0.000     | SANDIA NATIONAL LABORATORIES   | ED                                                                             | <a href="#">C 02683</a>         |          |      |       |                                                                          | SW  | NW  | NW | 20  | 22S                   | 31E   | 612184.0 | 3583356.0 * |     | 4,926.2  |
| <a href="#">C 04773</a> | CUB       | MON | 0.000     | DEVON ENERGY RESOURCES         | ED                                                                             | <a href="#">C 04773.POD1</a>    | NA       |      |       |                                                                          | SE  | SE  | SE | 24  | 22S                   | 30E   | 610415.0 | 3582262.6   |     | 4,984.9  |
| <a href="#">C 02413</a> | CUB       | MON | 0.000     | U.S.DEPT. OF ENERGY            | ED                                                                             | <a href="#">C 02413</a>         |          |      |       | Artesian                                                                 | NW  | NE  | NW | 20  | 22S                   | 31E   | 612586.0 | 3583560.0 * |     | 4,991.3  |

Record Count: 138

Filters Applied:

UTM Filters (in meters):

Easting: 613965

Northing: 3578763

Radius: 005000

Sorted By: Distance

\* UTM location was derived from PLSS - see Help

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

7/8/25 1:48 PM MST

Active & Inactive Points of Diversion

# Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE  
quarters are smallest to largest

NAD83 UTM in meters

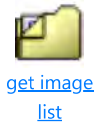
| Well Tag | POD Nbr | Q64 | Q16 | Q4 | Sec | Tws | Rng | X        | Y           | Map                                                                                 |
|----------|---------|-----|-----|----|-----|-----|-----|----------|-------------|-------------------------------------------------------------------------------------|
|          | C 02774 | SW  | NW  | SW | 04  | 23S | 31E | 613857.0 | 3577745.0 * |  |

\* UTM location was derived from PLSS - see [Help](#)

|                   |      |                           |            |
|-------------------|------|---------------------------|------------|
| Driller License:  |      | Driller Company:          |            |
| Driller Name:     |      | SANDIA NATIONAL LABS/USGS |            |
| Drill Start Date: |      | Drill Finish Date:        | 1976-12-31 |
| Log File Date:    |      | Plug Date:                |            |
| PCW Rcv Date:     |      | Source:                   |            |
| Pump Type:        |      | Pipe Discharge Size:      |            |
| Estimated Yield:  |      |                           |            |
| Casing Size:      | 4.50 | Depth Well:               | 1660       |
| Depth Water:      |      |                           |            |

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.

# Water Right Summary



[get image](#)  
[list](#)

|                  |                             |              |         |                  |
|------------------|-----------------------------|--------------|---------|------------------|
| WR File Number:  | C 02774                     | Subbasin:    | CUB     | Cross Reference: |
| Primary Purpose: | MON MONITORING WELL         |              |         |                  |
| Primary Status:  | DCL Declaration             |              |         |                  |
| Total Acres:     | 0.000                       | Subfile:     | Header: |                  |
| Total Diversion: | 0.000                       | Cause/Case:  |         |                  |
| Owner:           | U.S. DEPT. OF ENERGY - WIPP | Owner Class: | Owner   |                  |
| Contact:         | D.C. LYNN                   |              |         |                  |

## Documents on File

(acre-feet per annum)

| Transaction Images | Trn #                  | Doc | File/Act   | Status 1 | Status 2 | Transaction Desc. | From/To | Acres | Diversion | Consumptive |
|--------------------|------------------------|-----|------------|----------|----------|-------------------|---------|-------|-----------|-------------|
|                    | <a href="#">195794</a> | DCL | 2000-11-06 | DCL      | PRC      | C 02774           | T       | 0.000 | 0.000     |             |

## Current Points of Diversion

| POD Number              | Well Tag | Source | Q64 | Q16 | Q4 | Sec | TwS | Rng      | X         | Y | Map | Other Location Desc |
|-------------------------|----------|--------|-----|-----|----|-----|-----|----------|-----------|---|-----|---------------------|
| <a href="#">C 02774</a> |          | SW     | NW  | SW  | 04 | 23S | 31E | 613857.0 | 3577745.0 | * |     |                     |

\* UTM location was derived from PLSS - see Help

## Source

| Acres | Diversion | CU | Use | Priority | Source | Description |
|-------|-----------|----|-----|----------|--------|-------------|
| 0.000 | 0.000     |    | MON |          | GW     |             |

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.

# 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 Nbr | Q64 | Q16 | Q4 | Sec | Tw  | Rng | X        | Y         | Map                                                                                 |
|----------|---------|-----|-----|----|-----|-----|-----|----------|-----------|-------------------------------------------------------------------------------------|
|          | C 03351 | SE  | NW  | SE | 04  | 23S | 31E | 614916.6 | 3577861.1 |  |

\* UTM location was derived from PLSS - see Help

|                   |                              |                      |                            |                  |         |
|-------------------|------------------------------|----------------------|----------------------------|------------------|---------|
| Driller License:  | 421                          | Driller Company:     | GLENN'S WATER WELL SERVICE |                  |         |
| Driller Name:     | GLENN, CLARK A. "CORKY" (LD) |                      |                            |                  |         |
| Drill Start Date: | 2007-11-20                   | Drill Finish Date:   | 2007-11-20                 | Plug Date:       |         |
| Log File Date:    | 2007-12-04                   | PCW Rcv Date:        |                            | Source:          | Shallow |
| Pump Type:        |                              | Pipe Discharge Size: |                            | Estimated Yield: | 25      |
| Casing Size:      | 6.63                         | Depth Well:          | 320                        | Depth Water:     | 168     |

## Water Bearing Stratifications:

| Top | Bottom | Description                   |
|-----|--------|-------------------------------|
| 240 | 265    | Sandstone/Gravel/Conglomerate |

## Casing Perforations:

| Top | Bottom |
|-----|--------|
| 152 | 304    |

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.

# Water Right Summary



[get image](#)  
[list](#)

|                  |                                |              |       |                  |
|------------------|--------------------------------|--------------|-------|------------------|
| WR File Number:  | C 03351                        | Subbasin:    | C     | Cross Reference: |
| Primary Purpose: | STK 72-12-1 LIVESTOCK WATERING |              |       |                  |
| Primary Status:  | PMT Permit                     |              |       |                  |
| Total Acres:     |                                | Subfile:     |       | Header:          |
| Total Diversion: | 3.000                          | Cause/Case:  |       |                  |
| Owner:           | BUREAU OF LAND MANAGEMENT      | Owner Class: | Owner |                  |
| Contact:         | STEVE DALY                     |              |       |                  |

## Documents on File

(acre-feet per annum)

| Transaction Images         | Trn #                  | Doc   | File/Act   | Status 1 | Status 2 | Transaction Desc. | From/To | Acres | Diversion | Consumptive |
|----------------------------|------------------------|-------|------------|----------|----------|-------------------|---------|-------|-----------|-------------|
| <a href="#">get images</a> | <a href="#">469289</a> | 72121 | 2007-11-15 | PMT      | LOG      | C 03351           | T       |       | 3.000     |             |

## Current Points of Diversion

| POD Number              | Well Tag | Source  | Q64 | Q16 | Q4 | Sec | Tws | Rng | X        | Y         | Map | Other Location Desc |
|-------------------------|----------|---------|-----|-----|----|-----|-----|-----|----------|-----------|-----|---------------------|
| <a href="#">C 03351</a> |          | Shallow | SE  | NW  | SE | 04  | 23S | 31E | 614916.6 | 3577861.1 |     |                     |

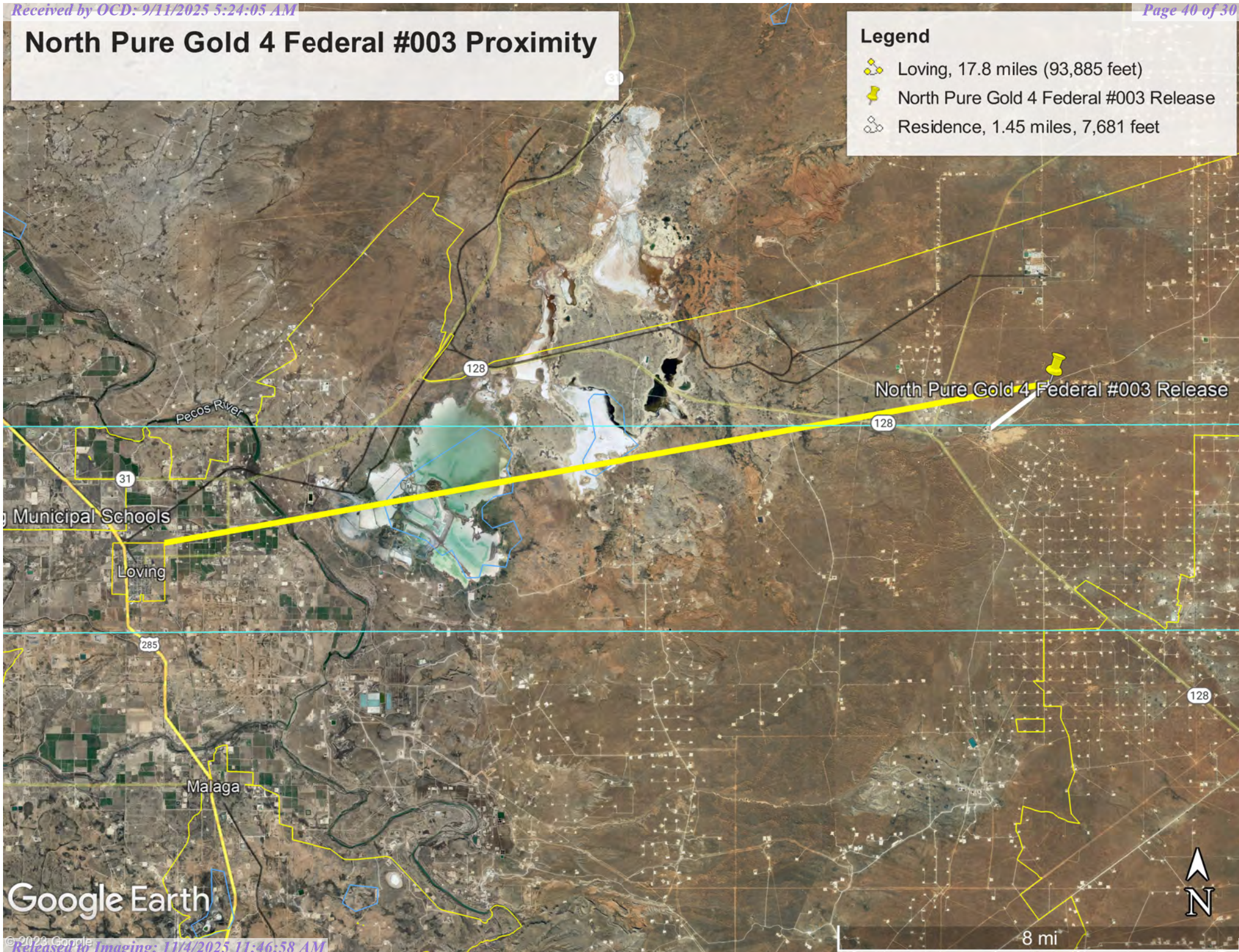
\* UTM location was derived from PLSS - see Help

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.

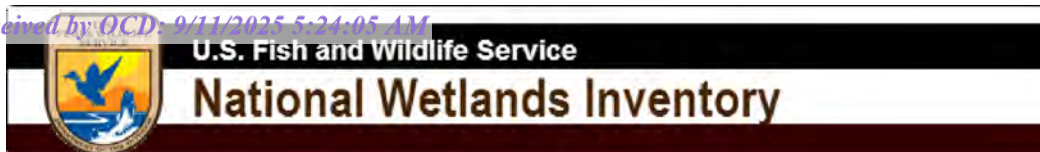
# North Pure Gold 4 Federal #003 Proximity

## Legend

-  Loving, 17.8 miles (93,885 feet)
-  North Pure Gold 4 Federal #003 Release
-  Residence, 1.45 miles, 7,681 feet



Google Earth



Wetland 4,074 feet



February 25, 2023

**Wetlands**

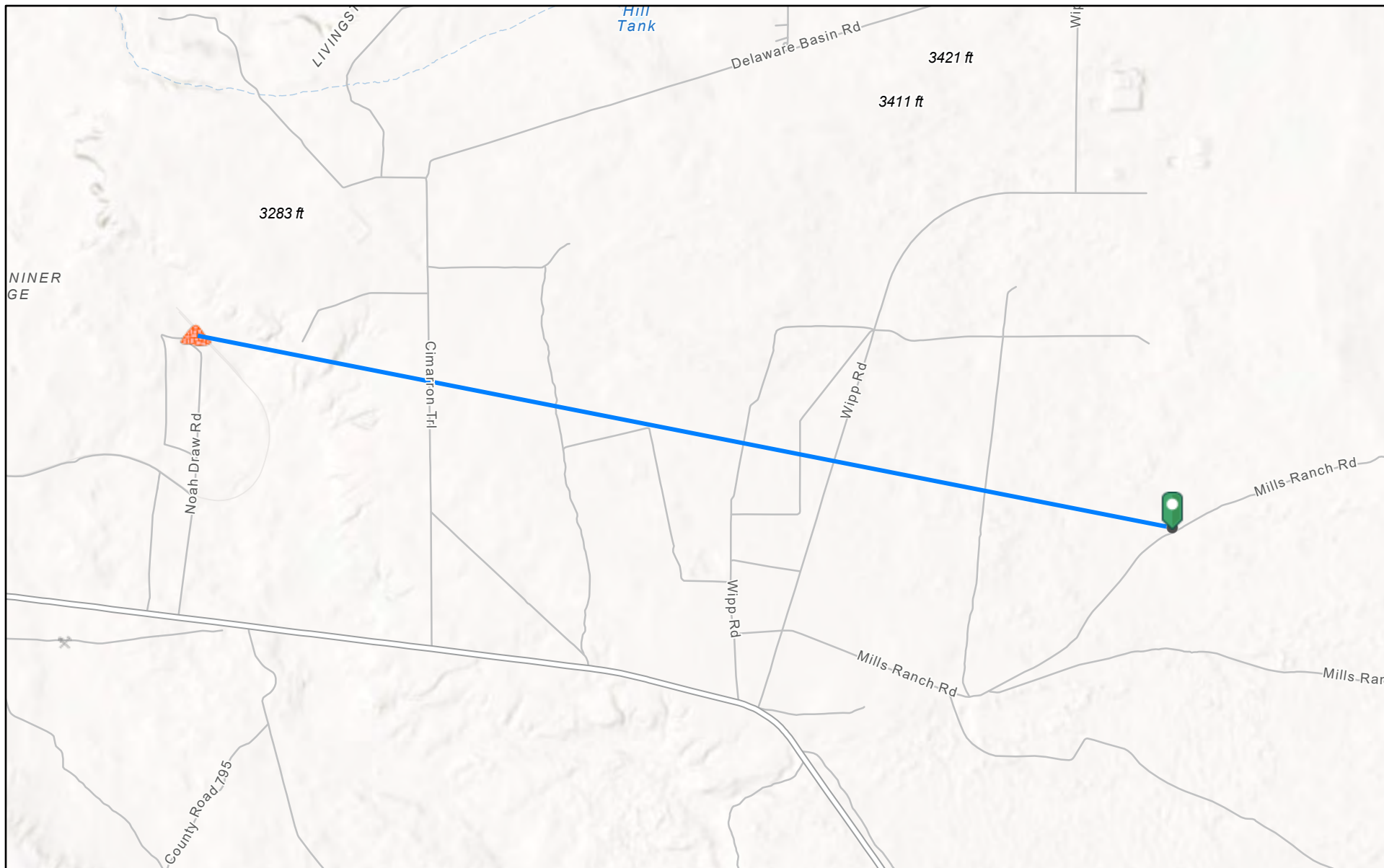
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

# North Pure Gold 4 Federal 3 - 29,600 feet from mine



1/26/2024, 3:44:13 PM

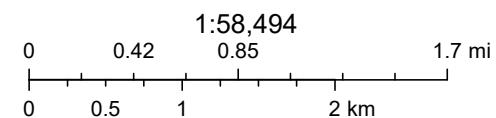
Registered Mines



Potash



Aggregate, Stone etc.

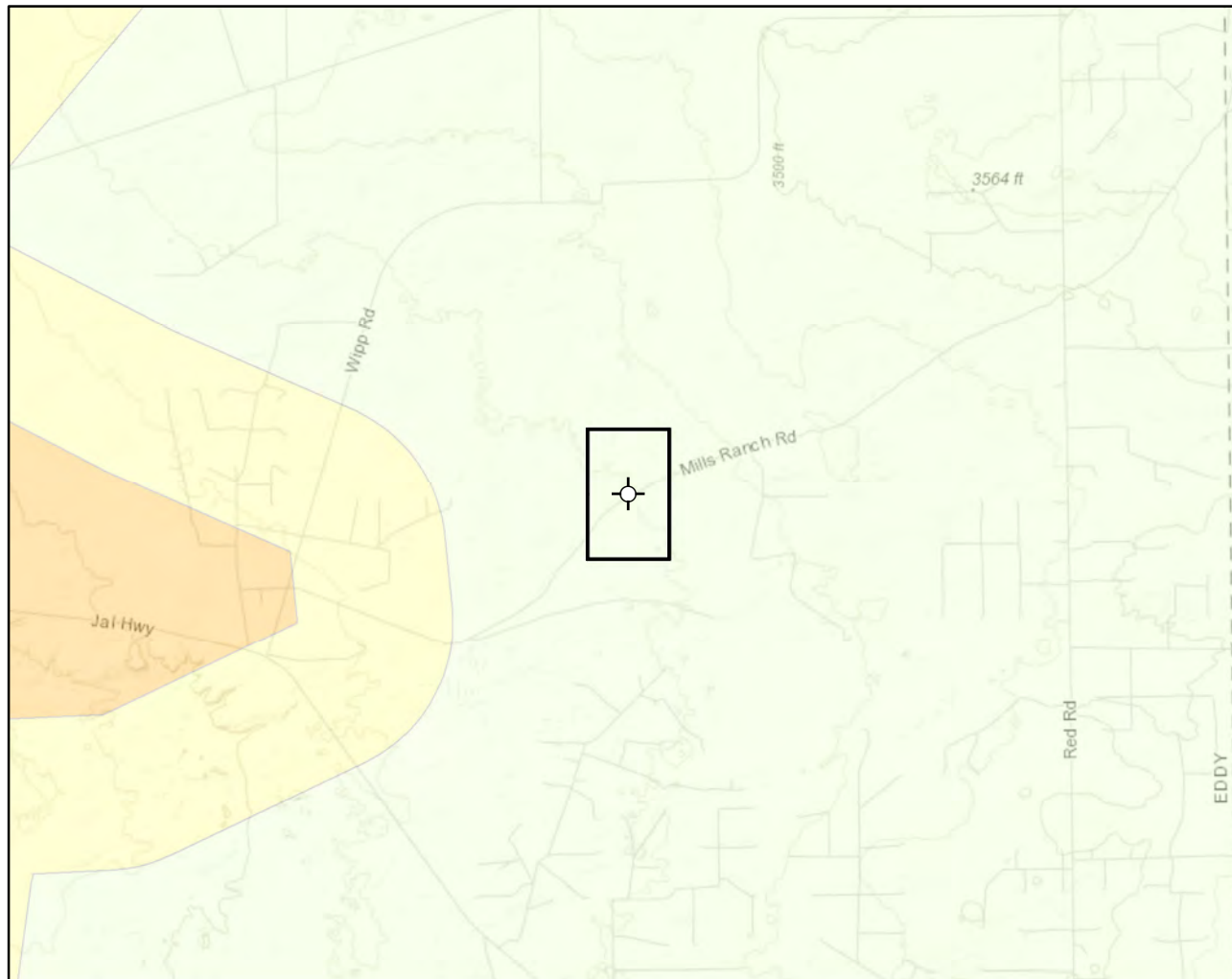


Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Esri,

EMNRD MMD GIS Coordinator

NM Energy, Minerals and Natural Resources Department (<http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795>)

Document Path: \\vks-401.corp.internal\shared\sys04 - Geomatics\1 - Projects\1 - US PROJECTS\Devon Energy Corporation\2022\21E-02816 - North Pure Gold 4 Federal #003\Figure X Karst Potential (North Pure Gold 4 Fed 003).mxd



**Karst Potential**

- Critical
- High
- Medium
- Low

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

**Overview Map**

0 0.25 0.5 1 mi



**Detail Map**

0 150 300 600 ft.



Map Center:  
Lat/Long: 32.339958, -103.789000

NAD 1983 UTM Zone 13N  
Date: Mar 01/23



**Karst Potential**  
**North Pure Gold 4 Federal #003**

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 2021; Overview Map: ESRI World Topographic. Karst potential data sourced from Roswell Field Office, Bureau of Land Management, 2020 or United States Department of the Interior, Bureau of Land Management. (2018). Karst Potential.

VERSATILITY. EXPERTISE.

# North Pure Gold 4 Federal 3

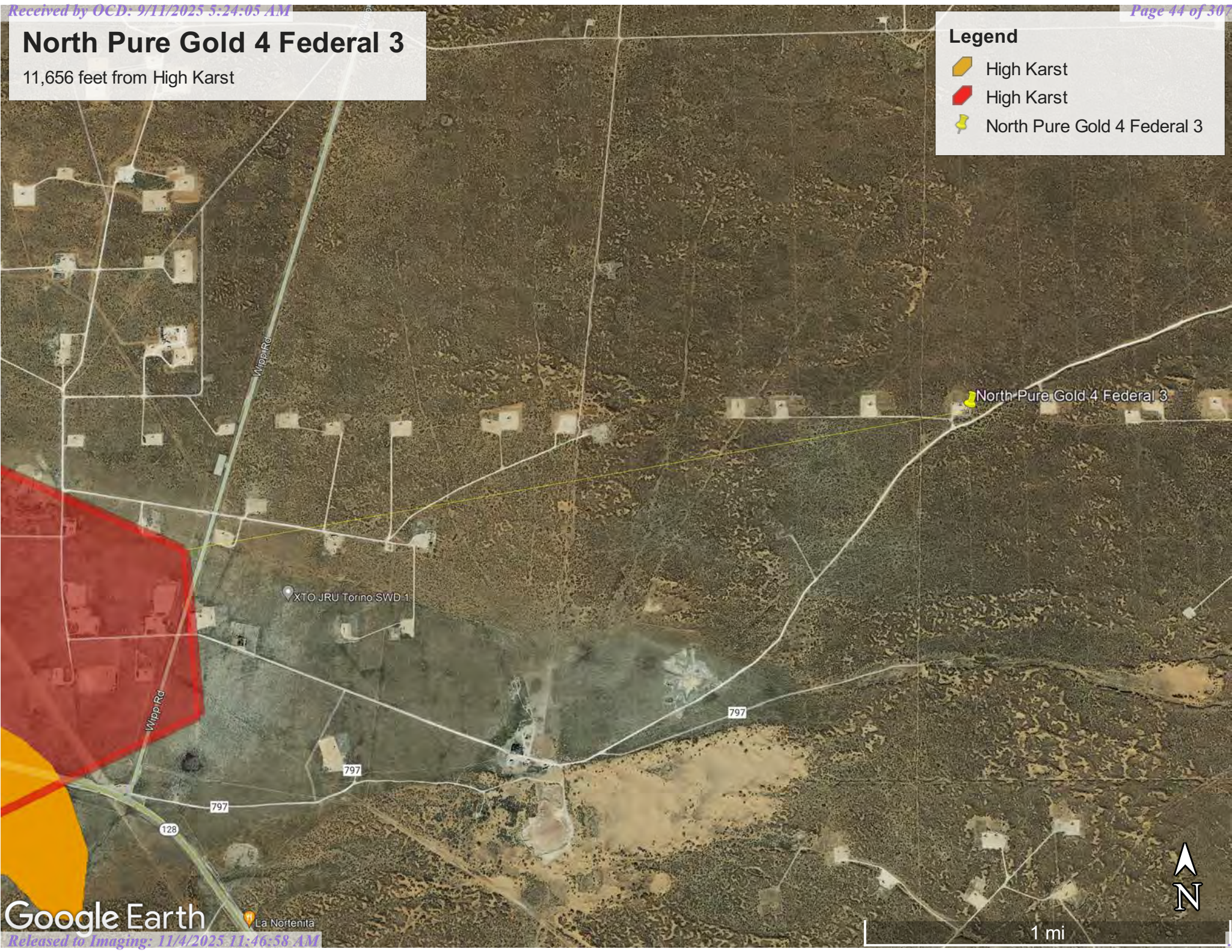
11,656 feet from High Karst

Legend

 High Karst

 High Karst

 North Pure Gold 4 Federal 3



# National Flood Hazard Layer FIRMette



103°47'39"W 32°20'39"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000 103°47'2"W 32°20'9"N

## Legend

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

|                             |  |                                                                                                                                                                   |
|-----------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SPECIAL FLOOD HAZARD AREAS  |  | Without Base Flood Elevation (BFE)<br>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                                                                                                                          |
|                             |  | NO SCREEN Area of Minimal Flood Hazard Zone X                                                                                                                     |
| OTHER AREAS                 |  | Effective LOMRs                                                                                                                                                   |
|                             |  | Area of Undetermined Flood Hazard Zone D                                                                                                                          |
| GENERAL STRUCTURES          |  | 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                                                                                                                                                  |
|                             |  | Base Flood Elevation Line (BFE)                                                                                                                                   |
|                             |  | Limit of Study                                                                                                                                                    |
|                             |  | Jurisdiction Boundary                                                                                                                                             |
|                             |  | Coastal Transect Baseline                                                                                                                                         |
| MAP PANELS                  |  | Digital Data Available                                                                                                                                            |
|                             |  | No Digital Data Available                                                                                                                                         |
|                             |  | Unmapped                                                                                                                                                          |



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/23/2023 at 9:32 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.

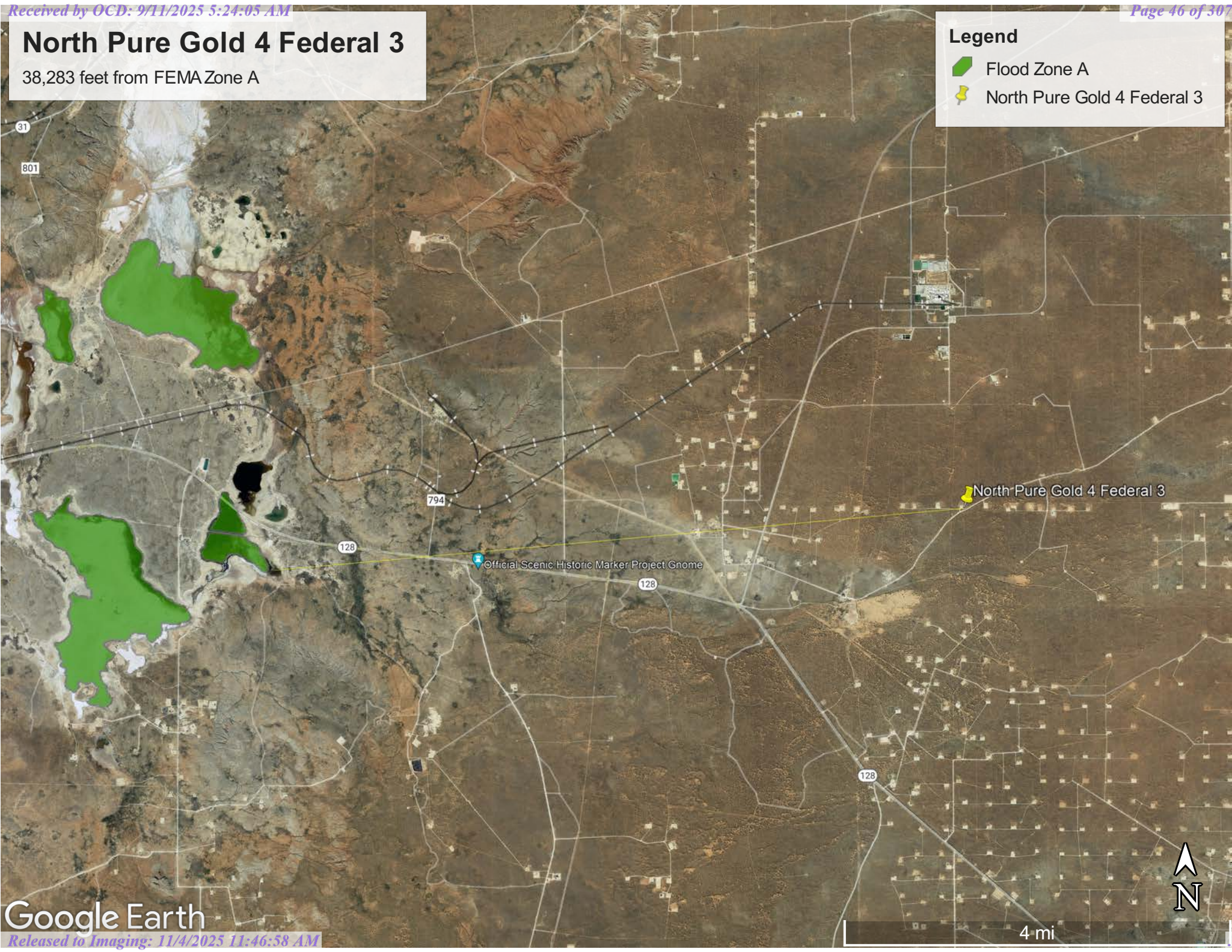
# North Pure Gold 4 Federal 3

38,283 feet from FEMA Zone A

Legend

 Flood Zone A

 North Pure Gold 4 Federal 3





United States  
Department of  
Agriculture

**NRCS**

Natural  
Resources  
Conservation  
Service

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, 2023

Custom Soil Resource Report  
Soil Map

## Custom Soil Resource Report

## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)

## Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

## Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

## Water Features

 Streams and Canals

## Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

## Background

 Aerial Photography

## MAP INFORMATION

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

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

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

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

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

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

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

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

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

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

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

## Custom Soil Resource Report

## 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 | 2.0          | 100.0%         |
| <b>Totals for Area of Interest</b> |                                                 | <b>2.0</b>   | <b>100.0%</b>  |

## 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

**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  
*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  
*Maximum salinity:* Nonsaline (0.0 to 1.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Low (about 3.1 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* A  
*Ecological site:* R070BD005NM - Deep Sand  
*Hydric soil rating:* No

**Description of Berino****Setting**

*Landform:* Plains, fan piedmonts  
*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  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 40 percent  
*Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Moderate (about 7.2 inches)

### Interpretive groups

*Land capability classification (irrigated):* 4e  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* B  
*Ecological site:* R070BD003NM - Loamy Sand  
*Hydric soil rating:* No

### Minor Components

#### Active dune land

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

## Ecological site R070BD005NM Deep Sand

Accessed: 02/24/2023

### 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<br>(2) Parna dune<br>(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<br>(2) Fine sand<br>(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<br>(0-40in)     | 3–5 in                                           |
| Calcium carbonate equivalent<br>(0-40in) | 5–15%                                            |
| Electrical conductivity<br>(0-40in)      | 0–4 mmhos/cm                                     |
| Sodium adsorption ratio<br>(0-40in)      | 0–2                                              |
| Soil reaction (1:1 water)<br>(0-40in)    | 6.6–7.8                                          |

|                                                          |       |
|----------------------------------------------------------|-------|
| Subsurface fragment volume <=3"<br>(Depth not specified) | 5–10% |
| Subsurface fragment volume >3"<br>(Depth not specified)  | 0%    |

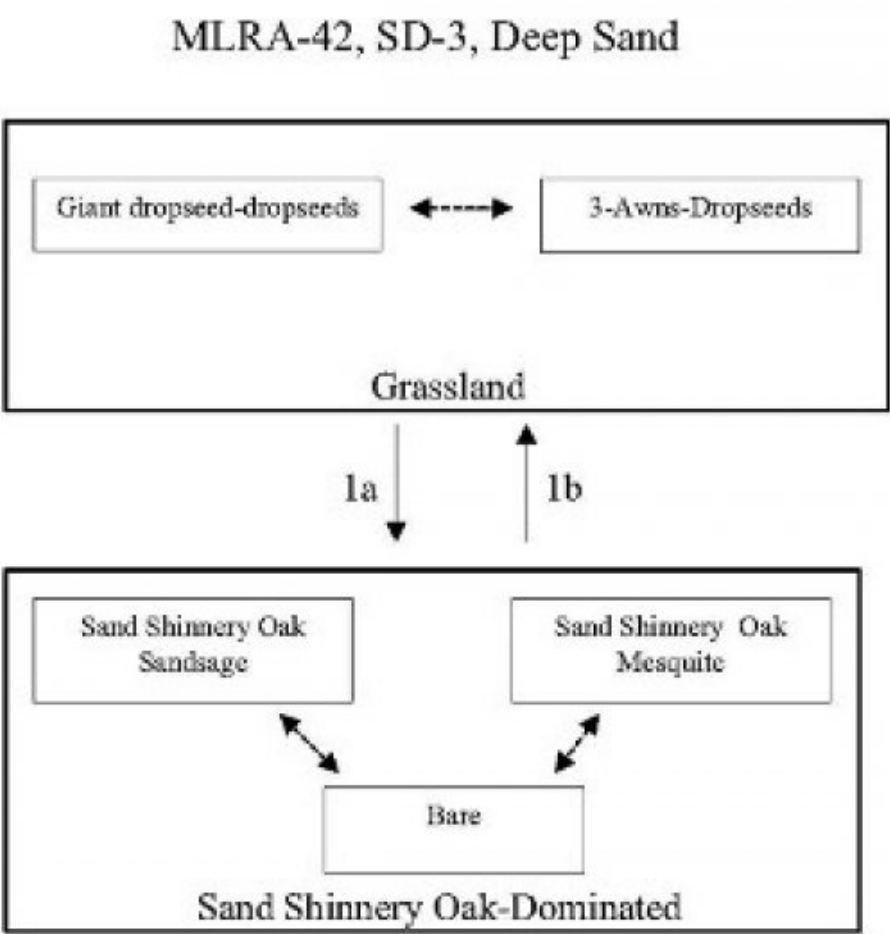
## Ecological dynamics

### 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

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<br>(Lb/Acre) | Representative Value<br>(Lb/Acre) | High<br>(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 5. Plant community growth curve (percent production by month).  
NM2805, HCPC. SD-3 Deep Sand - Warm season plant community .

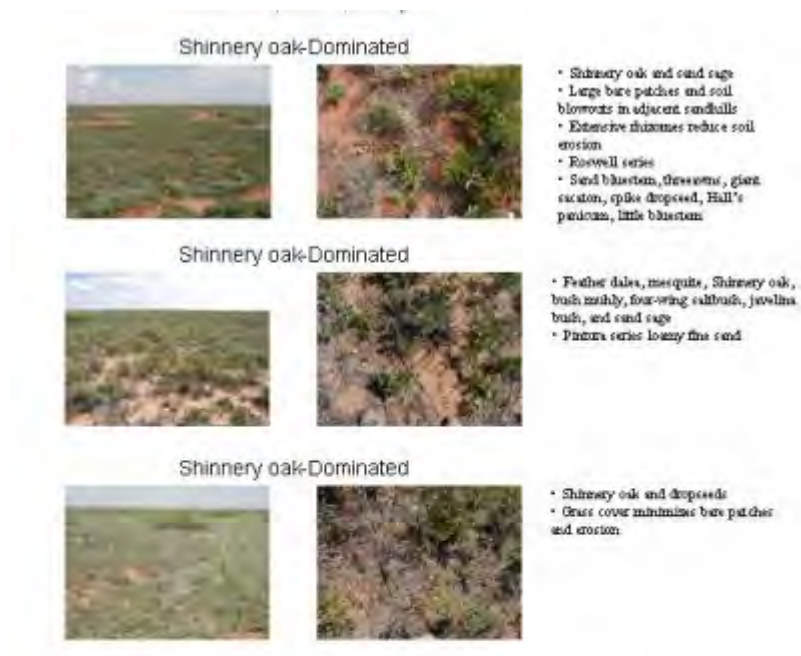
| Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0   | 0   | 3   | 5   | 10  | 10  | 25  | 30  | 12  | 5   | 0   | 0   |

State 2

Shinnery Oak Dominated

Community 2.1

Shinnery Oak Dominated



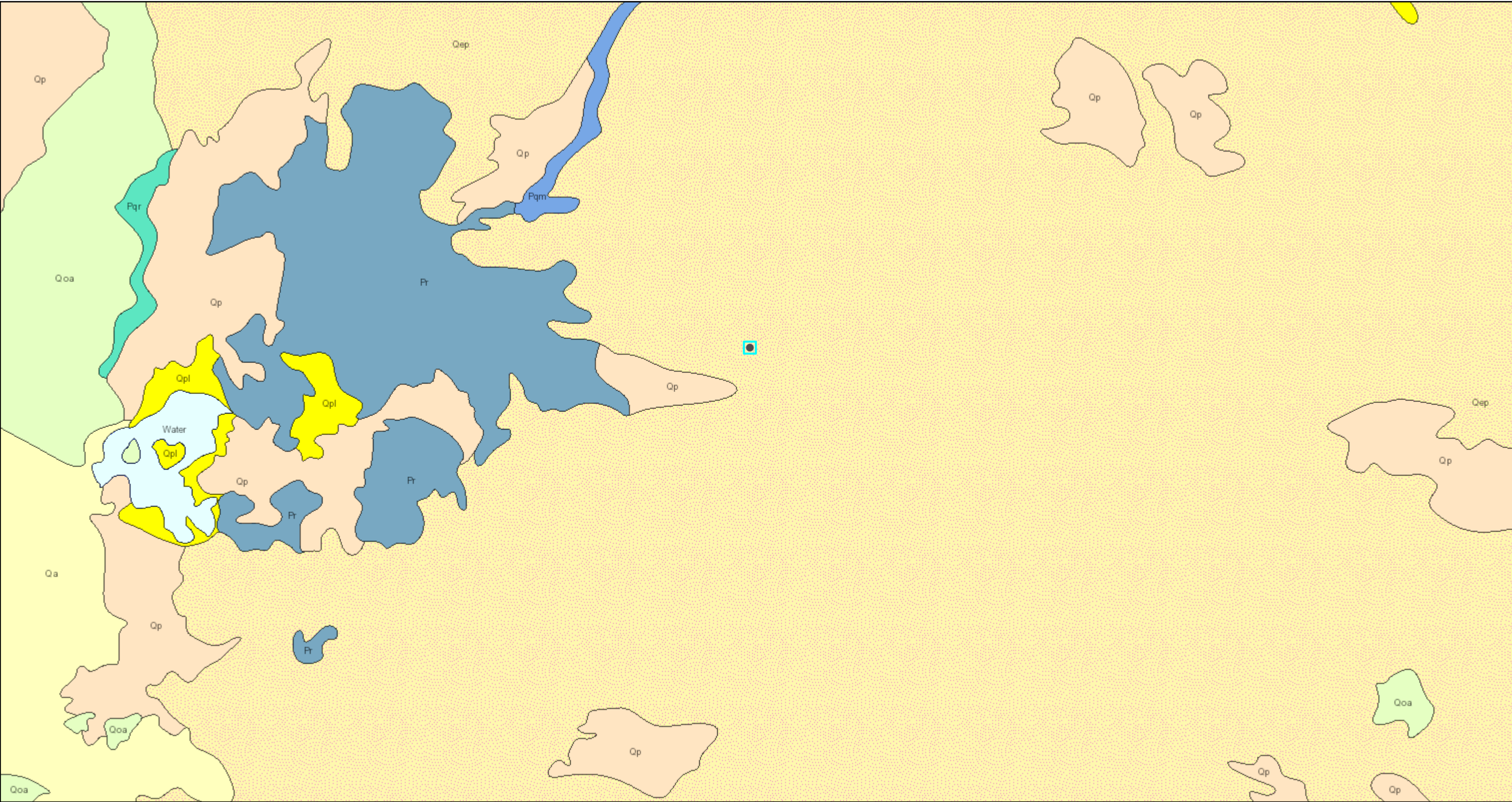
**Shinnery Oak Dominated:** This state is dominated by shinnery oak with subdominants of sand sage or mesquite. Bare ground is a significant component in this state as well. Shinnery oak is characterized by dense stands in sandy soils; however, as clay percentage increases, shinnery oak decreases. Shinnery 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 (%) |
|-------|-------------|--------|-----------------|-----------------------------|------------------|
|-------|-------------|--------|-----------------|-----------------------------|------------------|

# ArcGIS Web Map

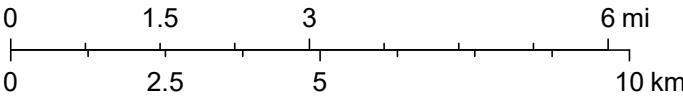


2/23/2023, 7:18:05 PM

1:144,448

- Lithologic Units
- Playa—Alluvium and evaporite deposits (Holocene)
  - Water—Perennial standing water
  - Qa—Alluvium (Holocene to upper Pleistocene)
  - Ql—Landslide deposits and colluvium (Holocene to Pleistocene) — Landslide deposits on western flanks of Socorro Mountains not shown for clarity
  - Qpl—Lacustrine and playa deposits (Holocene) — Includes associated alluvial and eolian deposits of major lake basins
  - Qp—Piedmont alluvial deposits (Holocene to lower Pleistocene)
  - Qe—Eolian deposits (Holocene to middle Pleistocene)

Qeg—Gypsiferous eolian deposits (Holocene to middle Pleistocene)



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

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



## Daily Site Visit Report

|                         |                                |                  |                   |
|-------------------------|--------------------------------|------------------|-------------------|
| Client:                 | Devon Energy Corporation       | Inspection Date: | 3/24/2023         |
| Site Location Name:     | North Pure Gold 4 Federal #003 | Report Run Date: | 3/25/2023 1:16 AM |
| Client Contact Name:    | Wes Matthews                   | API #:           |                   |
| Client Contact Phone #: | (575) 748-0176                 |                  |                   |
| Unique Project ID       |                                | Project Owner:   |                   |
| Project Reference #     |                                | Project Manager: |                   |

### Summary of Times

Arrived at Site 3/24/2023 11:48 AM

Departed Site 3/24/2023 3:44 PM

### Field Notes

- 15:25** Completed JSA at previous location. On site with Geoprobe to complete vertical delineation.
- 15:26** Plan was to continue BH23-19 with Geoprobe until field screening results were below NMOCD strictest criteria for chloride and TPH.
- 15:28** Swept borehole area with magnetic locator prior to ground disturbance.
- 15:40** Advanced Geoprobe at and very close proximity to BH23-19 in attempt to break through caliche. When refusal was encountered, Geoprobe unit was moved horizontally and advanced again. At third attempt the borehole was successfully advanced through the caliche to 12 feet bgs.
- 15:41** Samples were collected at 8, 10, and 12 feet bgs. Field screening results for samples at 10 and 12 feet were below NMOCD strictest criteria for chloride and TPH.
- 15:42** Vertical delineation completed pending laboratory results.

### Next Steps & Recommendations

- 1 Write remediation work plan pending laboratory results.

## Daily Site Visit Report



## Site Photos

Viewing Direction: North



Descriptive Photo - 1  
Viewing Direction: North  
Desc: South of artificial lift well facing north.  
Created: 3/24/2023 1:50:39 PM  
Lat:32.340135, Long:-103.789000

South of artificial lift facing north.

Viewing Direction: Southeast



Descriptive Photo - 2  
Viewing Direction: Southeast  
Desc: North of battery facing south. Advanced BH23-19 with Geoprobe to 10 feet bgs  
Created: 3/24/2023 1:58:39 PM  
Lat:32.340145, Long:-103.789000

North of battery facing southeast. Advanced BH23-19 with Geoprobe to 12 feet bgs.

Viewing Direction: North



Descriptive Photo - 3  
Viewing Direction: North  
Desc: North of battery facing west. Advanced BH23-19 with Geoprobe to 42 feet bgs  
Created: 3/24/2023 2:50:52 PM  
Lat:32.340113, Long:-103.789071

North of battery facing west. Advanced BH23-19 with Geoprobe to 12 feet bgs.

Viewing Direction: North



Descriptive Photo - 4  
Viewing Direction: North  
Desc: North of battery facing north. Advanced BH23-19 with Geoprobe to 12 feet bgs  
Created: 3/24/2023 2:50:54 PM  
Lat:32.340135, Long:-103.789007

North of battery facing north. Advanced BH23-19 with Geoprobe to 12 feet bgs.



## Daily Site Visit Report

Viewing Direction: South



North of battery facing south. Advanced BH23-19 with Geoprobe to 12 feet bgs.

Viewing Direction: Northeast



Southeast corner of pad facing northeast. Pinhole leak spewing vapor on east edge of pad.

## 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.



## Daily Site Visit Report

|                     |                                |                |  |
|---------------------|--------------------------------|----------------|--|
| Client:             | Devon Energy Corporation       | Incident ID #: |  |
| Site Location Name: | North Pure Gold 4 Federal #003 | API #:         |  |
| Inspection Date:    | 6/30/2025                      |                |  |

### Summary of Times

|                 |                   |
|-----------------|-------------------|
| Arrived at Site | 6/30/2025 7:40 AM |
| Departed Site   | 7/31/2025 5:15 PM |

### Field Notes

- 16:27** Completed JSA on arrival. On site to collect excavation confirmation samples, confirmation samples from undisturbed release area adjacent to containment, and backfill samples.
- 16:31** Remediation excavation was terminated at the fence immediately north of the tank battery containment due to close proximity of equipment. The release area between the north edge of the containment and the excavation has not undergone remediation. The “undisturbed release area” was mapped in ArcGIS and will be addressed when facility is decommissioned.
- 16:32** Swept excavation surfaces and undisturbed release area with magnetic locator prior to sample collection.
- 16:34** Collected two 5-point composite backfill samples from stockpile on west edge of pad. Field screening results were below strictest criteria for chloride and TPH.
- 16:43** Collected confirmation samples BS25-01 through BS25-06 and WS25-01 through WS25-06 from surfaces of excavations to 1, 2, and 4 feet bgs. Collected confirmation samples BS25-07 through BS25-09 from undisturbed release area in proximity to containment wall and equipment. Confirmation samples collected from the excavation base and walls were 5-point composites representing areas no greater than 200 square feet.
- 17:06** Field screening results for BS25-04, BS25-05, BS25-06 and WS25-02 through WS25-06 were below NMOCD strictest criteria for chloride and TPH.
- 17:06** Field screening results for WS25-01, BS25-01 through BS25-03, and BS25-07 through BS25-09 were within closure criteria for DTGW between 51 and 100 feet bgs.



## Daily Site Visit Report

**17:08** Confirmation sampling completed pending laboratory results. Excavation can be backfilled at any time.

### Next Steps & Recommendations

- 1 Submit samples to laboratory for analyses.

## Daily Site Visit Report



## Site Photos

Viewing Direction: North



South of pump jack facing north.

Viewing Direction: South



West side of pad facing south. Collected composite backfill samples.

Viewing Direction: Northeast



West edge of pad facing northeast. Collected composite backfill samples.

Viewing Direction: East



North of tank battery facing east. Excavations to 1, 2, and 4 feet bgs.



## Daily Site Visit Report

**Viewing Direction: Northeast**



North of tank battery facing northeast.  
Excavations to 1, 2, and 4 feet bgs.

**Viewing Direction: Southwest**



North of tank battery facing southwest.  
Excavations to 2 and 4 feet bgs.

**Viewing Direction: South**



North of tank battery facing south. Excavations  
to 2 and 4 feet bgs.

**Viewing Direction: Southeast**



North of tank battery facing southeast.  
Excavations to 1, 2, and 4 feet bgs.



## Daily Site Visit Report

**Viewing Direction: West**



Inside excavation north of tank battery facing west. Excavations to 2 and 4 feet bgs.

**Viewing Direction: Northwest**



Inside excavation north of tank battery facing west. Excavations to 1, 2, and 4 feet bgs.

**Viewing Direction: West**



Northeast of tank battery facing west. Excavations to 1, 2, and 4 feet bgs.

**Viewing Direction: Northeast**



At north edge of tank battery facing northeast. Excavations to 1 and 4 feet bgs.



## Daily Site Visit Report

**Viewing Direction: North**



At north edge of tank battery facing north.  
Excavations to 1, 2, and 4 feet bgs.

**Viewing Direction: Northwest**



At north edge of tank battery facing northwest.  
Excavations to 1, 2, and 4 feet bgs.

**Viewing Direction: West**



Northeast of tank battery facing west.  
Undisturbed release area in proximity to  
equipment.

**Viewing Direction: East**



North of tank battery facing east. Undisturbed  
release area in proximity to equipment.



## Daily Site Visit Report

**Viewing Direction: Southeast**



Northwest of excavation facing southeast.  
Collected excavation confirmation samples.

**Viewing Direction: Southwest**



North of excavation facing southeast. Collected  
excavation confirmation samples.

**Viewing Direction: West**



East of excavation facing west. Collected  
excavation confirmation samples.

**Viewing Direction: West**



Southeast of excavation facing west. Collected  
confirmation samples from undisturbed  
release area.



## Daily Site Visit Report

Viewing Direction: East



Descriptive Photo - 51  
Viewing Direction: East  
Desc: Southwest of excavation facing east I. Collected confirmation samples from  
Created: 7/31/2025 2:18:09 PM  
Lat: 32.346302, Long: -103.789063

Southwest of excavation facing east I.  
Collected confirmation samples from  
undisturbed release area.

## 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       | Incident ID #: |  |
| Site Location Name: | North Pure Gold 4 Federal #003 | API #:         |  |
| Inspection Date:    | 8/6/2025                       |                |  |

## Summary of Times

|                 |                  |
|-----------------|------------------|
| Arrived at Site | 8/6/2025 4:22 PM |
| Departed Site   | 8/6/2025 4:38 PM |

## Field Notes

**16:22** Completed safety paperwork upon arrival

**16:24** Took photographs of the backfill location

**16:24** Location was backfilled with caliche and compacted to reduce erosion

## Next Steps & Recommendations

# Daily Site Visit Report



## Site Photos

**Viewing Direction: East**



Descriptive Photo - 1  
Viewing Direction: East  
Desc: Backfill completed on pad. Photograph taken from the center of location looking east across the release  
Created: 8/6/2025 4:39:31 PM  
Lat:32.340230, Long:-103.789204

Backfill completed on pad. Photograph taken from the center of location looking east across the release

**Viewing Direction: South**



Descriptive Photo - 2  
Viewing Direction: South  
Desc: Backfill completed on pad. Photograph taken from the north of the excavation  
Created: 8/6/2025 4:34:42 PM  
Lat:32.340330, Long:-103.789035

Backfill completed on pad. Photograph taken from the north of the excavation

**Viewing Direction: West**



Descriptive Photo - 3  
Viewing Direction: West  
Desc: Backfill completed on pad. Photograph taken from the east of the excavation  
Created: 8/6/2025 4:35:14 PM  
Lat:32.340130, Long:-103.788911

Backfill completed on pad. Photograph taken from the east of the excavation

**Viewing Direction: Northwest**



Descriptive Photo - 4  
Viewing Direction: Northwest  
Desc: Backfill completed on pad  
Created: 8/6/2025 4:34:16 PM  
Lat:32.340115, Long:-103.788800

Backfill completed on pad



## Daily Site Visit Report

Viewing Direction: East



Backfill completed on pad (picture taken from the center of the former excavation)

Viewing Direction: West



Backfill completed on pad (picture taken from the center of the former excavation)

## Daily Site Visit Report



Daily Site Visit Signature

Inspector: Katrina Taylor

Signature:

A handwritten signature in black ink, appearing to be 'KT' with a large loop at the start, written over a horizontal line.

Signature

## **APPENDIX D – Talon/LPE Site Assessment and Closure Report**

talonlpe.com • 866.742.0742



## Site Assessment and Closure Report

North Pure Gold 4 Federal #3  
Eddy County, New Mexico  
API# 30-025-35702  
2RP-3117

### Prepared For:

Devon Energy Production Company  
6488 Seven Rivers Hwy  
Artesia, NM 88210

### Prepared By:

TALON/LPE  
408 W. Texas Avenue  
Artesia, New Mexico 88210

May 5, 2020

Mr. Jim Amos  
**Bureau of Land Management**  
620 East Green Street  
Carlsbad, NM 88220

Mr. Mike Bratcher  
**NMOCD District 2**  
811 S. 1<sup>st</sup> Street  
Artesia, NM 88210

Subject: **Site Assessment and Closure Report**  
North Pure Gold 4 Federal #3  
Eddy County, New Mexico  
API# 30-025-35702  
2RP-3117

Dear Mr. Amos & Mr. Bratcher,

Devon Energy Production Company (Devon) has contracted Talon/LPE (Talon) to perform soil assessment at the above-referenced location. The incident description, soil sampling results, liner inspection, and closure request are presented herein.

### Site Information

The North Pure Gold 4 Federal #3 is located approximately twenty-six (26) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter D, Section 4, Township 23 South and Range 31 East in Eddy County, New Mexico. More specifically, the latitude and longitude for the release are 32.340135 North and -103.788762 West. A Site Map is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Kermit-Berino fine sand, 0 to 3 percent slopes. See [Appendix II](#) for the referenced soil survey. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is eolian and piedmont deposits, Holocene to middle Pleistocene in age. Drainage courses in this area are well-drained.

### Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 354-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater depth. This site is located within a low potential Karst area.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

|                                         |                     |
|-----------------------------------------|---------------------|
| <b>Approximate Depth to Groundwater</b> | <b>354 Feet/BGS</b> |
|-----------------------------------------|---------------------|

- |                                                                     |                                                                                                                                                                               |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within 300 feet of any continuously flowing watercourse or any other significant watercourse                                                                                  |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within 200 feet of any lakebed, sinkhole or a playa lake                                                                                                                      |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within 300 feet from an occupied permanent residence, school, hospital, institution or church                                                                                 |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 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                                 |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within 1000 feet of any freshwater well or spring                                                                                                                             |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978 |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within 300 feet of a wetland                                                                                                                                                  |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within the area overlying a subsurface mine                                                                                                                                   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within an unstable area                                                                                                                                                       |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within a 100-year floodplain                                                                                                                                                  |

Because the release did not occur in any of these areas and the depth to groundwater is greater than 100-feet in-depth, based on the site characterization data, the cleanup criteria for this site are as follows.

| Table I<br>Closure Criteria for Soils Impacted by a Release                         |                   |                                  |              |
|-------------------------------------------------------------------------------------|-------------------|----------------------------------|--------------|
| Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS | Constituent       | Method                           | Limit        |
| >100 feet                                                                           | Total Chlorides   | EPA 300.0 or SM4500 Cl B         | 20,000 mg/kg |
|                                                                                     | TPH (GRO+DRO+MRO) | EPA SW-846 Method 8015M          | 2,500 mg/kg  |
|                                                                                     | GRO+DRO           | EPA SW-846 Method 8015M          | 1,000 mg/kg  |
|                                                                                     | BTEX              | EPA SW-846 Method 8021B or 8260B | 50 mg/kg     |
|                                                                                     | Benzene           | EPA SW-846 Method 8021B or 8260B | 10 mg/kg     |

## Incident Description

2RP-3117. On July 11, 2015, a lightning strike hit the tanks causing the battery to catch on fire. This resulted in a release of approximately 5 barrels (bbls) of oil and 254 bbls of produced water. All fluids stayed on location inside the engineered lined containment. 2 bbls of oil and 400 bbls of produced water along with rain and fire department water were recovered. The site map is presented in [Appendix I](#).

On April 6, 2020, Talon mobilized personnel to the site conducting a site assessment and collecting soil samples. Sample locations are shown on the attached site map and the results of our sampling event are presented in the following data table.

## Soil Sampling

### 4-6-20 Soil Sample Laboratory Results

| Sample ID                                       | Sample Date | Depth (BGS) | BTEX mg/kg | Benzene mg/kg | GRO mg/kg                          | DRO mg/kg | MRO mg/kg | Total TPH mg/kg | Cl mg/kg     |
|-------------------------------------------------|-------------|-------------|------------|---------------|------------------------------------|-----------|-----------|-----------------|--------------|
| NMOCD Table 1 Closure Criteria 19.15.29<br>NMAC |             |             | 50 mg/kg   | 10 mg/kg      | DRO + GRO combined =<br>1000 mg/kg |           |           | 2500 mg/kg      | 20,000 mg/kg |
| S-1 N. Composite                                | 4/6/2020    | 0-1         | ND         | ND            | ND                                 | 160       | 300       | 460             | 7200         |
| S-2 E. Composite                                |             | 0-1         | ND         | ND            | ND                                 | 27        | 75        | 102             | ND           |
| S-3 S. Composite                                |             | 0-1         | ND         | ND            | ND                                 | ND        | ND        | ND              | 260          |
| S-4 W. Composite                                |             | 0-1         | ND         | ND            | ND                                 | ND        | ND        | ND              | ND           |

ND-Analyte Not Detected

See [Appendix V](#) for the complete report of laboratory results.

## Remedial Actions

- Based upon the results of our sampling event, none of the analytical results exceeded the NMOCD clean up criteria for this site. Therefore there was no need for soil remediation activities.
- Based upon the photo documentation provided and the results of our sampling event, it is apparent the integrity of the battery liner is not compromised.

## Closure

Based on this site characterization, liner inspection, and analytical results, we request that no further actions be required, and that closure with regard to this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

TALON/LPE

A blue ink signature of Chris Jones, consisting of a stylized 'CJ' followed by a horizontal line.

Chris Jones  
Project Manager

A blue ink signature of David J. Adkins, consisting of a stylized 'DA' followed by a horizontal line.

David J. Adkins  
District Manager

### Attachments:

- Appendix I Site Maps, Karst Map, TOPO Map & Location Map
- Appendix II Groundwater Data, FEMA Flood Zone, Soil Survey
- Appendix III Initial and Final C-141's
- Appendix IV Photographic Documentation
- Appendix V Laboratory Results



# **APPENDIX I**

## **SITE MAP**

## **KARST MAP**

## **TOPO MAP**

## **LOCATION MAP**

# North Pure Gold 4 Federal #3

Devon Energy Production Company  
Eddy County, NM  
API 30-025-35702  
Site Map

## Legend

- Samples

North Pure Gold 4 Fed 3 ●

S-1 North ●

S-2 East ●

S-4 West ●

S-3 South ●



# North Pure Gold 4 Federal #3

Devon Energy Production Company  
Eddy County, NM  
API 30-025-35702  
Karst Map

Legend

High

Low

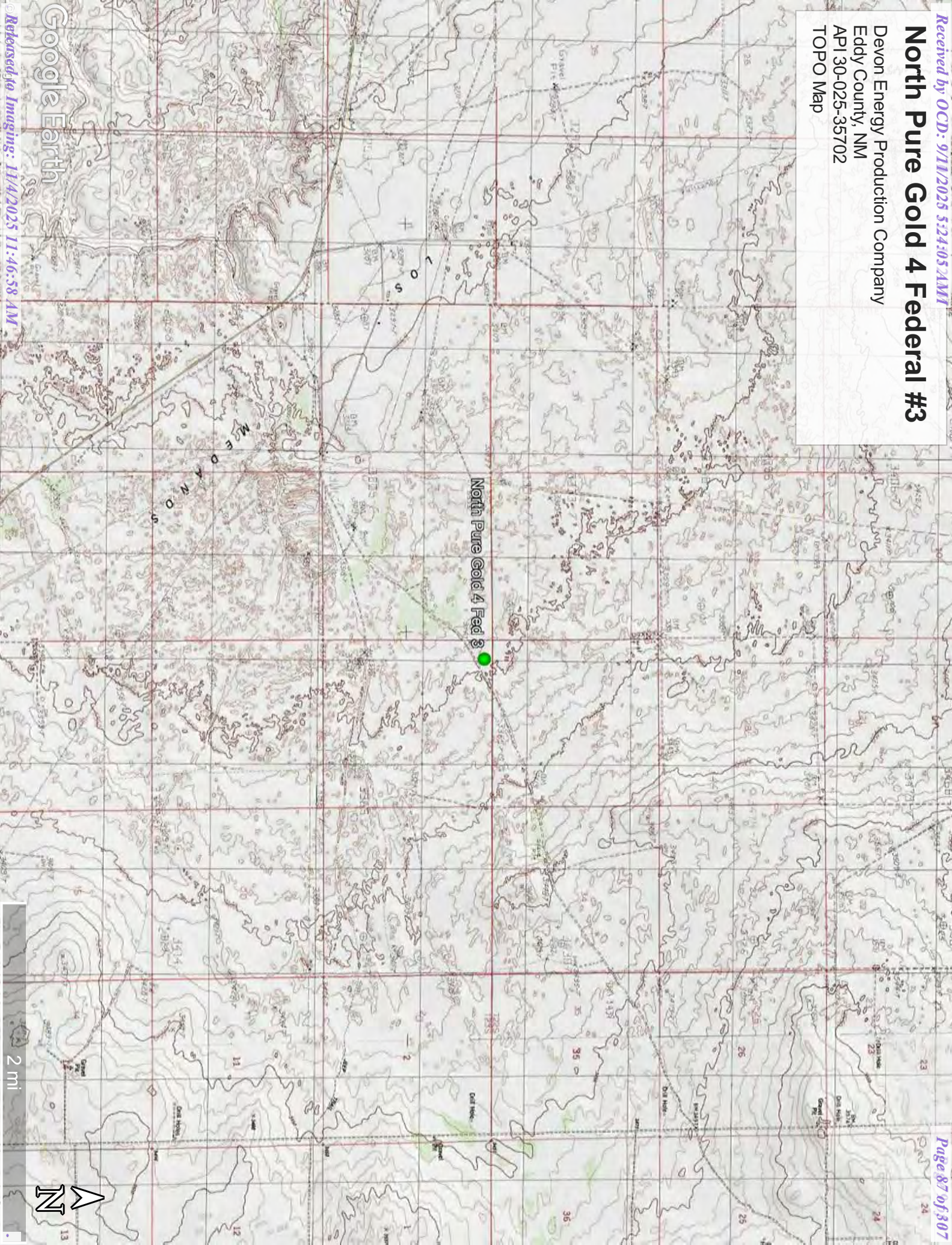
Medium

4 mi

N

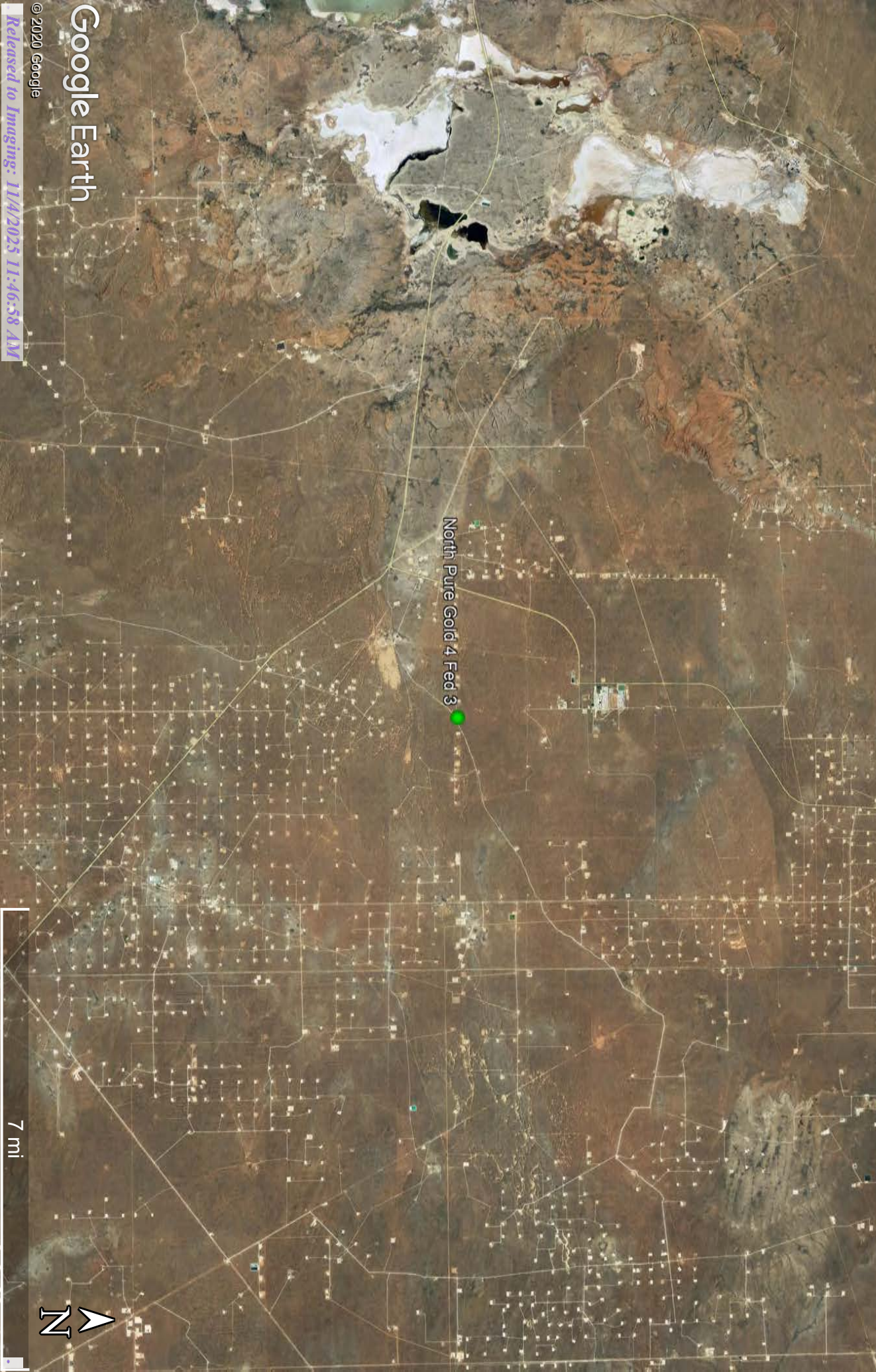
# North Pure Gold 4 Federal #3

Devon Energy Production Company  
Eddy County, NM  
API 30-025-35702  
TOPO Map



# North Pure Gold 4 Federal #3

Devon Energy Production Company  
Eddy County, NM  
API 30-025-35702  
Location Map

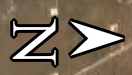


Google Earth

© 2020 Google

Released to Imaging: 11/4/2025 11:46:58 AM

North Pure Gold 4 Fed 3



7 mi



## **APPENDIX II**

# **GROUNDWATER DATA**

# **SOIL SURVEY**

# **FEMA FLOOD ZONE**



# 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 6 | Q 4 | Q 4 | Sec | Tws | Rng | X      | Y        | Distance | DepthWell | DepthWater | Water Column |
|------------------------------|------|---------------|--------|-----|-----|-----|-----|-----|-----|--------|----------|----------|-----------|------------|--------------|
| <a href="#">C 02767</a>      |      | CUB           | ED     | 4   | 1   | 4   | 33  | 22S | 31E | 614844 | 3579360* | 1032     | 785       |            |              |
| <a href="#">C 02768</a>      |      | CUB           | ED     | 4   | 1   | 4   | 33  | 22S | 31E | 614844 | 3579360* | 1032     | 787       |            |              |
| <a href="#">C 02774</a>      |      | CUB           | ED     | 3   | 1   | 3   | 04  | 23S | 31E | 613857 | 3577745* | 1045     | 1660      |            |              |
| <a href="#">C 02664</a>      |      | CUB           | ED     | 3   | 3   | 2   | 05  | 23S | 31E | 613049 | 3578138* | 1138     | 4291      | 354        | 3937         |
| <a href="#">C 03351</a>      |      | C             | ED     | 4   | 1   | 4   | 04  | 23S | 31E | 614917 | 3577861  | 1307     | 320       | 168        | 152          |
| <a href="#">C 02769 POD2</a> |      | CUB           | ED     | 4   | 2   | 4   | 33  | 22S | 31E | 615261 | 3579312  | 1378     | 753       | 428        | 325          |
| <a href="#">C 02687</a>      |      | CUB           | ED     | 4   | 2   | 4   | 33  | 22S | 31E | 615246 | 3579364* | 1385     | 779       |            |              |
| <a href="#">C 02769</a>      |      | CUB           | ED     | 2   | 2   | 4   | 33  | 22S | 31E | 615246 | 3579564* | 1481     | 765       |            |              |
| <a href="#">C 02776</a>      |      | CUB           | ED     | 2   | 1   | 1   | 05  | 23S | 31E | 612440 | 3578731* | 1548     | 661       |            |              |
| <a href="#">C 03140</a>      |      | CUB           | ED     | 4   | 2   | 4   | 04  | 23S | 31E | 615266 | 3577758* | 1637     | 684       |            |              |
| <a href="#">C 02725</a>      |      | CUB           | ED     | 1   | 1   | 1   | 05  | 23S | 31E | 612240 | 3578731* | 1748     | 532       |            |              |
| <a href="#">C 02775</a>      |      | CUB           | ED     | 1   | 1   | 1   | 05  | 23S | 31E | 612240 | 3578731* | 1748     | 529       |            |              |
| <a href="#">C 02417</a>      |      | CUB           | ED     | 4   | 4   | 4   | 29  | 22S | 31E | 613623 | 3580554* | 1809     | 681       |            |              |
| <a href="#">C 02773</a>      |      | CUB           | ED     | 4   | 1   | 3   | 03  | 23S | 31E | 615668 | 3577762* | 1965     | 880       |            |              |

Average Depth to Water: 316 feet

Minimum Depth: 168 feet

Maximum Depth: 428 feet

Record Count: 14

UTM NAD83 Radius Search (In meters):

Easting (X): 613988

Northing (Y): 3578782.109

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.

3/27/20 1:33 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes—Eddy Area, New Mexico

## 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

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes—Eddy Area, New Mexico

---

## Description of Berino

### Setting

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

## Data Source Information

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

# National Flood Hazard Layer FIRMette

32°20'39.69"N



USGS The National Map: Orthoimagery, Data refreshed April, 2019

32°20'29.29"N

103°47'0.82"W

## Legend

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

| SPECIAL FLOOD HAZARD AREAS | Without Base Flood Elevation (BFE)<br>Zone A, V, AE, AO, AH, VE, AR<br>With BFE or Depth Zone AE, AO, AH, VE, AR<br>Regulatory Floodway |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                      |                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 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<br>Zone X | Future Conditions 1% Annual Chance Flood Hazard<br>Zone X |
| Area with Reduced Flood Risk due to Levee. See Notes, Zone X                                                                                                         | Area with Flood Risk due to Levee<br>Zone D               |

|                                             |                                                               |
|---------------------------------------------|---------------------------------------------------------------|
| Area of Minimal Flood Hazard<br>Zone X      | Effective LOMRS                                               |
| Area of Undetermined Flood Hazard<br>Zone X | Channel, Culvert, or Storm Sewer<br>Levee, Dike, or Floodwall |

|                                                                 |                                                     |
|-----------------------------------------------------------------|-----------------------------------------------------|
| Cross Sections with 1% Annual Chance<br>Water Surface Elevation | Coastal Transect<br>Base Flood Elevation Line (BFE) |
| Limit of Study                                                  | Jurisdiction Boundary                               |
| 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 3/27/2020 at 3:34:30 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, FIRFM panel number, and FIRFM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



# **APPENDIX III**

**INITIAL C-141**

**&**

**FINAL C-141**

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

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

ARTESIA DISTRICT

JUL 14 2015

Form C-141  
Revised August 8, 2011Submit 1 Copy to appropriate District Office in  
conformance with 19.15.29 NMAC.

RECEIVED

## Release Notification and Corrective Action

NAB1519 733 009

## OPERATOR

☒ Initial Report ☐ Final Report

|                 |                                         |               |              |
|-----------------|-----------------------------------------|---------------|--------------|
| Name of Company | Devon Energy Production                 | Contact       | Dan Suniga   |
| Address         | 6488 Seven Rivers Hwy Artesia, NM 88220 | Telephone No. | 575-390-5850 |
| Facility Name   | North Pure Gold 4 Fed 3                 | Facility Type | Oil          |

|               |         |               |         |         |              |
|---------------|---------|---------------|---------|---------|--------------|
| Surface Owner | Federal | Mineral Owner | Federal | API No. | 30-015-35702 |
|---------------|---------|---------------|---------|---------|--------------|

## LOCATION OF RELEASE

|             |         |          |       |               |                  |               |                |        |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
| D           | 4       | 23S      | 31E   | 180           | FNL              | 660           | FWL            | Eddy   |

Latitude: 32.340135 Longitude: 103.788762

## NATURE OF RELEASE

|                                                                                                                                          |                                                             |                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------|
| Type of Release Spill<br>Fire with 5 BBL oil and 254 BBL of produced water                                                               | Volume of Release<br>5 BBL oil & 254 BBL produced water     | Volume Recovered<br>2 BBL oil & 400 produced water and water |
| Source of Release<br>Lightning struck facility and caught battery on fire                                                                | Date and Hour of Occurrence<br>7/11/15 at 7:00 am           | Date and Hour of Discovery<br>7/11/15 at 7:00 am             |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?<br>Jeff Robertson BLM<br>Mike Bratcher OCD |                                                              |
| By Whom?<br>Ray Carter                                                                                                                   | Date and Hour<br>7/11/15 at 9:30 am                         |                                                              |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                        | If YES, Volume Impacting the Watercourse                    |                                                              |

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

7/11/15 on the North Pure Gold 4 Fed 3 at 7:00 am the battery caught fire due to lightning. Lease operator called 911 and fire was contained.

Describe Area Affected and Cleanup Action Taken.\*

5 BBL of oil and 254 BBL of water was released all in lined containment. Liner will be evaluated once time permits. Facility will need to be rebuilt.

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: Jeanette Barron              | OIL CONSERVATION DIVISION                                                                          |                      |
| Printed Name: Jeanette Barron           | Signed By <u>Mike Bratcher</u>                                                                     |                      |
| Title: Field Admin Support              | Approved by Environmental Specialist:                                                              |                      |
| E-mail Address: Jeanette.barron@dvn.com | Approval Date: 7/16/15                                                                             | Expiration Date: N/A |
| Date: 7/13/15 Phone: 575.748.1813       | Conditions of Approval:                                                                            |                      |
|                                         | Remediation per O.C.D. Rules & Guidelines<br>SUBMIT REMEDIATION PROPOSAL NO<br>LATER THAN: 8/10/15 |                      |

Attached ☐

\* Attach Additional Sheets If Necessary

2RP-3117

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 April 3, 2017

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

## Release Notification and Corrective Action

### OPERATOR

☐ Initial Report ☒ Final Report

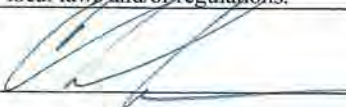
|                                                   |                            |
|---------------------------------------------------|----------------------------|
| Name of Company: Devon Energy Production Company  | Contact: Amanda Davis      |
| Address: 6488 Seven Rivers Hwy, Artesia, NM 88220 | Telephone No. 575-748-0176 |
| Facility Name: North Pure Gold 4 Federal #3       | Facility Type: Oil         |
| Surface Owner: Federal                            | Mineral Owner: Federal     |
| API No. 30-15-35702                               |                            |

### LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| D           | 4       | 23S      | 31E   | 180           | FNL              | 660           | FWL            | Eddy   |

Latitude 32.340135 Longitude -103.788762 NAD83

### NATURE OF RELEASE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------|
| Type of Release: Spill                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Volume of Release: 5 BBL Oil, 254 BBL Produced Water         | Volume Recovered: 2 BBL Oil & 400 Produced Water, Rain & Fire Dept Water |
| Source of Release: Lightning Struck facility and caught the battery on fire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Date and Hour of Occurrence: 7/11/15 @ 7:00 am               | Date and Hour of Discovery: 7/11/15 @ 7:00 am                            |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | If YES, To Whom?<br>Mike Bratcher/NMOCD & Jeff Robertson BLM |                                                                          |
| By Whom? Ray Carter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Date and Hour: 7/11/15 @ 9:30 am                             |                                                                          |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | If YES, Volume Impacting the Watercourse.<br>N/A             |                                                                          |
| If a Watercourse was Impacted, Describe Fully. N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                              |                                                                          |
| Describe Cause of Problem and Remedial Action Taken. The battery was struck by lightning and caught fire. The lease operator called 911 and the fire department was able to contain the fire.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              |                                                                          |
| Describe Area Affected and Cleanup Action Taken. The area affected was the tank battery. The tank battery was rebuilt and soil samples were obtained around the affected area shown that the liner was not breached.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                              |                                                                          |
| 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:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>OIL CONSERVATION DIVISION</b>                             |                                                                          |
| Printed Name: Chris Jones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Approved by Environmental Specialist:                        |                                                                          |
| Title: Environmental Project Manager                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Approval Date:                                               | Expiration Date:                                                         |
| E-mail Address: cjones@talonlpe.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Conditions of Approval:                                      | Attached <input type="checkbox"/>                                        |
| Date: 4-20-20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Phone: 575-748-8768                                          |                                                                          |

\* Attach Additional Sheets If Necessary

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

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

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

|                |               |
|----------------|---------------|
| Incident ID    | nAB1519733009 |
| District RP    | 2RP-3117      |
| Facility ID    |               |
| Application ID |               |

## Site Assessment/Characterization

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

|                                                                                                                                                                                                 |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release?                                                                                                           | >100 (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 <b>not</b> 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

|                |               |
|----------------|---------------|
| Incident ID    | nAB1519733009 |
| District RP    | 2RP-3117      |
| Facility ID    |               |
| Application ID |               |

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.

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: Tom Bynum Title: EHS Consultant

Signature: Tom Bynum Date: 5/6/2020

email: tom.bynum@dvn.com Telephone: 575-748-0176

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                |               |
|----------------|---------------|
| Incident ID    | nAB1519733009 |
| District RP    | 2RP-3117      |
| Facility ID    |               |
| Application ID |               |

## Remediation Plan

**Remediation Plan Checklist:** Each of the following items must be included in the plan.

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** Each of the following items must be confirmed as part of any request for deferral of remediation.

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Tom Bynum Title: EHS Consultant

Signature: Tom Bynum Date: 5/6/2020

email: tom.bynum@dvn.com Telephone: 575-748-0176

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

|                |               |
|----------------|---------------|
| Incident ID    | nAB1519733009 |
| District RP    | 2RP-3117      |
| Facility ID    |               |
| Application ID |               |

## Closure

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

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

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

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

Printed Name: Tom Bynum Title: EHS Consultant

Signature: Tom Bynum Date: 5/6/2020

email: tom.bynum@dvn.com Telephone: 575-748-0176

**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 IV**

# **PHOTOGRAPHIC DOCUMENTATION**

## Photographic Documentation

### Liner Photos



## Photographic Documentation





# APPENDIX V

# LABORATORY DATA



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)

April 09, 2020

Chris Jones  
Talon Artesia  
408 West Texas Ave  
Artesia, NM 88210  
TEL:  
FAX:

RE: Devon N Pure Gold 4 Fed 3

OrderNo.: 2004235

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/7/2020 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 light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2004235

Date Reported: 4/9/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S1-N. 0-1' Comp

Project: Devon N Pure Gold 4 Fed 3

Collection Date: 4/6/2020 9:25:00 AM

Lab ID: 2004235-001

Matrix: SOIL

Received Date: 4/7/2020 8:25:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed        | Batch        |
|--------------------------------------------------|--------|----------|------|-------|-----|----------------------|--------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     |                      | Analyst: JMT |
| Chloride                                         | 7200   | 300      |      | mg/Kg | 100 | 4/8/2020 12:08:28 PM | 51626        |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |     |                      | Analyst: RAA |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1   | 4/8/2020 12:18:40 PM | 51620        |
| Surr: BFB                                        | 101    | 70-130   |      | %Rec  | 1   | 4/8/2020 12:18:40 PM | 51620        |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     |                      | Analyst: BRM |
| Diesel Range Organics (DRO)                      | 160    | 9.6      |      | mg/Kg | 1   | 4/8/2020 7:19:48 AM  | 51606        |
| Motor Oil Range Organics (MRO)                   | 300    | 48       |      | mg/Kg | 1   | 4/8/2020 7:19:48 AM  | 51606        |
| Surr: DNOP                                       | 96.2   | 55.1-146 |      | %Rec  | 1   | 4/8/2020 7:19:48 AM  | 51606        |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |     |                      | Analyst: RAA |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1   | 4/8/2020 12:18:40 PM | 51620        |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1   | 4/8/2020 12:18:40 PM | 51620        |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1   | 4/8/2020 12:18:40 PM | 51620        |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1   | 4/8/2020 12:18:40 PM | 51620        |
| Surr: 1,2-Dichloroethane-d4                      | 89.9   | 70-130   |      | %Rec  | 1   | 4/8/2020 12:18:40 PM | 51620        |
| Surr: 4-Bromofluorobenzene                       | 97.4   | 70-130   |      | %Rec  | 1   | 4/8/2020 12:18:40 PM | 51620        |
| Surr: Dibromofluoromethane                       | 92.8   | 70-130   |      | %Rec  | 1   | 4/8/2020 12:18:40 PM | 51620        |
| Surr: Toluene-d8                                 | 102    | 70-130   |      | %Rec  | 1   | 4/8/2020 12:18:40 PM | 51620        |

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 2004235

Date Reported: 4/9/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S2-East 0-1' Comp

Project: Devon N Pure Gold 4 Fed 3

Collection Date: 4/6/2020 9:30:00 AM

Lab ID: 2004235-002

Matrix: SOIL

Received Date: 4/7/2020 8:25:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|--------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    |                      | Analyst: JMT |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 4/7/2020 10:56:54 PM | 51626        |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    |                      | Analyst: RAA |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 4/8/2020 12:47:52 PM | 51620        |
| Surr: BFB                                        | 98.8   | 70-130   |      | %Rec  | 1  | 4/8/2020 12:47:52 PM | 51620        |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                      | Analyst: BRM |
| Diesel Range Organics (DRO)                      | 27     | 9.8      |      | mg/Kg | 1  | 4/7/2020 7:55:22 PM  | 51606        |
| Motor Oil Range Organics (MRO)                   | 75     | 49       |      | mg/Kg | 1  | 4/7/2020 7:55:22 PM  | 51606        |
| Surr: DNOP                                       | 105    | 55.1-146 |      | %Rec  | 1  | 4/7/2020 7:55:22 PM  | 51606        |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    |                      | Analyst: RAA |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 4/8/2020 12:47:52 PM | 51620        |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 4/8/2020 12:47:52 PM | 51620        |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 4/8/2020 12:47:52 PM | 51620        |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 4/8/2020 12:47:52 PM | 51620        |
| Surr: 1,2-Dichloroethane-d4                      | 87.4   | 70-130   |      | %Rec  | 1  | 4/8/2020 12:47:52 PM | 51620        |
| Surr: 4-Bromofluorobenzene                       | 96.5   | 70-130   |      | %Rec  | 1  | 4/8/2020 12:47:52 PM | 51620        |
| Surr: Dibromofluoromethane                       | 92.4   | 70-130   |      | %Rec  | 1  | 4/8/2020 12:47:52 PM | 51620        |
| Surr: Toluene-d8                                 | 100    | 70-130   |      | %Rec  | 1  | 4/8/2020 12:47:52 PM | 51620        |

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 2004235

Date Reported: 4/9/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S3- 0-1' South Comp

Project: Devon N Pure Gold 4 Fed 3

Collection Date: 4/6/2020 9:35:00 AM

Lab ID: 2004235-003

Matrix: SOIL

Received Date: 4/7/2020 8:25:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|--------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    |                      | Analyst: JMT |
| Chloride                                         | 260    | 60       |      | mg/Kg | 20 | 4/7/2020 11:09:15 PM | 51626        |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    |                      | Analyst: RAA |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 4/8/2020 1:17:03 PM  | 51620        |
| Surr: BFB                                        | 98.1   | 70-130   |      | %Rec  | 1  | 4/8/2020 1:17:03 PM  | 51620        |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                      | Analyst: BRM |
| Diesel Range Organics (DRO)                      | ND     | 9.7      |      | mg/Kg | 1  | 4/7/2020 8:19:41 PM  | 51606        |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 4/7/2020 8:19:41 PM  | 51606        |
| Surr: DNOP                                       | 104    | 55.1-146 |      | %Rec  | 1  | 4/7/2020 8:19:41 PM  | 51606        |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    |                      | Analyst: RAA |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 4/8/2020 1:17:03 PM  | 51620        |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 4/8/2020 1:17:03 PM  | 51620        |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 4/8/2020 1:17:03 PM  | 51620        |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 4/8/2020 1:17:03 PM  | 51620        |
| Surr: 1,2-Dichloroethane-d4                      | 90.5   | 70-130   |      | %Rec  | 1  | 4/8/2020 1:17:03 PM  | 51620        |
| Surr: 4-Bromofluorobenzene                       | 97.1   | 70-130   |      | %Rec  | 1  | 4/8/2020 1:17:03 PM  | 51620        |
| Surr: Dibromofluoromethane                       | 92.0   | 70-130   |      | %Rec  | 1  | 4/8/2020 1:17:03 PM  | 51620        |
| Surr: Toluene-d8                                 | 98.6   | 70-130   |      | %Rec  | 1  | 4/8/2020 1:17:03 PM  | 51620        |

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 2004235

Date Reported: 4/9/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S4- West 0-1' Comp

Project: Devon N Pure Gold 4 Fed 3

Collection Date: 4/6/2020 9:40:00 AM

Lab ID: 2004235-004

Matrix: SOIL

Received Date: 4/7/2020 8:25:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|--------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    |                      | Analyst: JMT |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 4/7/2020 11:21:36 PM | 51626        |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    |                      | Analyst: RAA |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 4/8/2020 1:46:54 PM  | 51620        |
| Surr: BFB                                        | 98.0   | 70-130   |      | %Rec  | 1  | 4/8/2020 1:46:54 PM  | 51620        |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                      | Analyst: BRM |
| Diesel Range Organics (DRO)                      | ND     | 9.4      |      | mg/Kg | 1  | 4/7/2020 8:44:15 PM  | 51606        |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 4/7/2020 8:44:15 PM  | 51606        |
| Surr: DNOP                                       | 106    | 55.1-146 |      | %Rec  | 1  | 4/7/2020 8:44:15 PM  | 51606        |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    |                      | Analyst: RAA |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 4/8/2020 1:46:54 PM  | 51620        |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 4/8/2020 1:46:54 PM  | 51620        |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 4/8/2020 1:46:54 PM  | 51620        |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 4/8/2020 1:46:54 PM  | 51620        |
| Surr: 1,2-Dichloroethane-d4                      | 90.6   | 70-130   |      | %Rec  | 1  | 4/8/2020 1:46:54 PM  | 51620        |
| Surr: 4-Bromofluorobenzene                       | 95.7   | 70-130   |      | %Rec  | 1  | 4/8/2020 1:46:54 PM  | 51620        |
| Surr: Dibromofluoromethane                       | 94.6   | 70-130   |      | %Rec  | 1  | 4/8/2020 1:46:54 PM  | 51620        |
| Surr: Toluene-d8                                 | 99.7   | 70-130   |      | %Rec  | 1  | 4/8/2020 1:46:54 PM  | 51620        |

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#: 2004235

09-Apr-20

Client: Talon Artesia

Project: Devon N Pure Gold 4 Fed 3

|                            |                                |                                           |                     |             |      |          |           |      |          |      |
|----------------------------|--------------------------------|-------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: <b>MB-51626</b> | SampType: <b>mblk</b>          | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
| Client ID: <b>PBS</b>      | Batch ID: <b>51626</b>         | RunNo: <b>67908</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>4/7/2020</b> | Analysis Date: <b>4/7/2020</b> | SeqNo: <b>2347414</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-51626</b> | SampType: <b>lcs</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>51626</b>         | RunNo: <b>67908</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>4/7/2020</b>  | Analysis Date: <b>4/7/2020</b> | SeqNo: <b>2347416</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           | 94.2 | 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#: 2004235

09-Apr-20

Client: Talon Artesia

Project: Devon N Pure Gold 4 Fed 3

| Sample ID: <b>Ics-51620</b> | SampType: <b>LCS4</b>          |       | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|-------|---------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>   | Batch ID: <b>51620</b>         |       | RunNo: <b>67943</b>                                     |             |                     |          |           |      |          |      |
| Prep Date: <b>4/7/2020</b>  | Analysis Date: <b>4/8/2020</b> |       | SeqNo: <b>2347872</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           | 88.9                | 80       | 120       |      |          |      |
| Toluene                     | 1.1                            | 0.050 | 1.000                                                   | 0           | 107                 | 80       | 120       |      |          |      |
| Ethylbenzene                | 1.1                            | 0.050 | 1.000                                                   | 0           | 109                 | 80       | 120       |      |          |      |
| Xylenes, Total              | 3.2                            | 0.10  | 3.000                                                   | 0           | 107                 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.50                           |       | 0.5000                                                  |             | 99.4                | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.51                           |       | 0.5000                                                  |             | 101                 | 70       | 130       |      |          |      |

| Sample ID: <b>mb-51620</b>  | SampType: <b>MBLK</b>          |       | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|-------|---------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>51620</b>         |       | RunNo: <b>67943</b>                                     |             |                     |          |           |      |          |      |
| Prep Date: <b>4/7/2020</b>  | Analysis Date: <b>4/8/2020</b> |       | SeqNo: <b>2347873</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 | 0.44                           |       | 0.5000                                                  |             | 89.0                | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.49                           |       | 0.5000                                                  |             | 97.3                | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.45                           |       | 0.5000                                                  |             | 90.5                | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.49                           |       | 0.5000                                                  |             | 98.8                | 70       | 130       |      |          |      |

| Sample ID: <b>2004235-001ams</b>  | SampType: <b>MS4</b>           |       | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |             |                     |          |           |      |          |      |
|-----------------------------------|--------------------------------|-------|---------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>S1-N. 0-1' Comp</b> | Batch ID: <b>51620</b>         |       | RunNo: <b>67943</b>                                     |             |                     |          |           |      |          |      |
| Prep Date: <b>4/7/2020</b>        | Analysis Date: <b>4/8/2020</b> |       | SeqNo: <b>2348434</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 | 0.9921                                                  | 0           | 101                 | 80       | 120       |      |          |      |
| Toluene                           | 1.1                            | 0.050 | 0.9921                                                  | 0           | 116                 | 80       | 120       |      |          |      |
| Ethylbenzene                      | 1.2                            | 0.050 | 0.9921                                                  | 0           | 118                 | 80       | 120       |      |          |      |
| Xylenes, Total                    | 3.4                            | 0.099 | 2.976                                                   | 0           | 115                 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene        | 0.48                           |       | 0.4960                                                  |             | 97.4                | 70       | 130       |      |          |      |
| Surr: Toluene-d8                  | 0.51                           |       | 0.4960                                                  |             | 103                 | 70       | 130       |      |          |      |

| Sample ID: <b>2004235-001amsd</b> | SampType: <b>MSD4</b>          |       | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |             |                     |          |           |       |          |      |
|-----------------------------------|--------------------------------|-------|---------------------------------------------------------|-------------|---------------------|----------|-----------|-------|----------|------|
| Client ID: <b>S1-N. 0-1' Comp</b> | Batch ID: <b>51620</b>         |       | RunNo: <b>67943</b>                                     |             |                     |          |           |       |          |      |
| Prep Date: <b>4/7/2020</b>        | Analysis Date: <b>4/8/2020</b> |       | SeqNo: <b>2348435</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 | 0.9940                                                  | 0           | 101                 | 80       | 120       | 0.144 | 20       |      |
| Toluene                           | 1.1                            | 0.050 | 0.9940                                                  | 0           | 115                 | 80       | 120       | 0.797 | 20       |      |

## Qualifiers:

\* Value exceeds Maximum Contaminant 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#: 2004235

09-Apr-20

Client: Talon Artesia

Project: Devon N Pure Gold 4 Fed 3

|                            |        |                         |           |                                                  |      |              |           |       |          |      |
|----------------------------|--------|-------------------------|-----------|--------------------------------------------------|------|--------------|-----------|-------|----------|------|
| Sample ID: 2004235-001amsd |        | SampType: MSD4          |           | TestCode: EPA Method 8260B: Volatiles Short List |      |              |           |       |          |      |
| Client ID: S1-N. 0-1' Comp |        | Batch ID: 51620         |           | RunNo: 67943                                     |      |              |           |       |          |      |
| Prep Date: 4/7/2020        |        | Analysis Date: 4/8/2020 |           | SeqNo: 2348435                                   |      | Units: mg/Kg |           |       |          |      |
| Analyte                    | Result | PQL                     | SPK value | SPK Ref Val                                      | %REC | LowLimit     | HighLimit | %RPD  | RPDLimit | Qual |
| Ethylbenzene               | 1.2    | 0.050                   | 0.9940    | 0                                                | 117  | 80           | 120       | 0.651 | 20       |      |
| Xylenes, Total             | 3.5    | 0.099                   | 2.982     | 0                                                | 116  | 80           | 120       | 0.450 | 20       |      |
| Surr: 4-Bromofluorobenzene | 0.46   |                         | 0.4970    |                                                  | 93.1 | 70           | 130       | 0     | 0        |      |
| Surr: Toluene-d8           | 0.48   |                         | 0.4970    |                                                  | 97.5 | 70           | 130       | 0     | 0        |      |

## Qualifiers:

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

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

Page 7 of 8

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

WO#: 2004235

09-Apr-20

**Client:** Talon Artesia**Project:** Devon N Pure Gold 4 Fed 3

| Sample ID: <b>LCS-51620</b>   | SampType: <b>LCS</b>           |     | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|--------------------------------|-----|-------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>51620</b>         |     | RunNo: <b>67943</b>                                   |             |                     |          |           |      |          |      |
| Prep Date: <b>4/7/2020</b>    | Analysis Date: <b>4/8/2020</b> |     | SeqNo: <b>2347879</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                     | 490                            |     | 500.0                                                 |             | 99.0                | 70       | 130       |      |          |      |

| Sample ID: <b>mb-51620</b>    | SampType: <b>MBLK</b>          |     | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|--------------------------------|-----|-------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>51620</b>         |     | RunNo: <b>67943</b>                                   |             |                     |          |           |      |          |      |
| Prep Date: <b>4/7/2020</b>    | Analysis Date: <b>4/8/2020</b> |     | SeqNo: <b>2347880</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                     | 490                            |     | 500.0                                                 |             | 97.2                | 70       | 130       |      |          |      |

| Sample ID: <b>2004235-002ams</b>    | SampType: <b>MS</b>            |     | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------------|--------------------------------|-----|-------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>S2-East 0-1' Comp</b> | Batch ID: <b>51620</b>         |     | RunNo: <b>67943</b>                                   |             |                     |          |           |      |          |      |
| Prep Date: <b>4/7/2020</b>          | Analysis Date: <b>4/8/2020</b> |     | SeqNo: <b>2348448</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                             | 4.9 | 24.41                                                 | 0           | 98.6                | 70       | 130       |      |          |      |
| Surr: BFB                           | 480                            |     | 488.3                                                 |             | 98.3                | 70       | 130       |      |          |      |

| Sample ID: <b>2004235-002amsd</b>   | SampType: <b>MSD</b>           |     | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------------|--------------------------------|-----|-------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>S2-East 0-1' Comp</b> | Batch ID: <b>51620</b>         |     | RunNo: <b>67943</b>                                   |             |                     |          |           |      |          |      |
| Prep Date: <b>4/7/2020</b>          | Analysis Date: <b>4/8/2020</b> |     | SeqNo: <b>2348449</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 | 24.83                                                 | 0           | 99.0                | 70       | 130       | 2.12 | 20       |      |
| Surr: BFB                           | 500                            |     | 496.5                                                 |             | 99.9                | 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 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: TALON ARTESIA

Work Order Number: 2004235

RcptNo: 1

Received By: Juan Rojas

4/7/2020 8:25:00 AM

Completed By: *Isaiah Ortiz* 4/7/2020

Reviewed By: JR 4/7/20

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: *DAD 4/7/20*

### Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1         | 4.1                     | Good      | Not Present |         |           |           |

## Chain-of-Custody Record

Client: Talon LPE  
 408 W Texas St  
 Mailing Address: Artesia, NM 88210  
 Phone #: 575-494-1646  
 email or Fax#: (575) 746-8905  
 QA/QC Package:  
☒ Standard ☐ Level 4 (Full Validation)  
 Accreditation: ☐ Az Compliance  
☐ NELAC ☐ Other  
☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Mailing Address: Artesia, NM 88210

Phone #: 575-494-1646

email or Fax#: (575) 746-8905

QA/QC Package:

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

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 4.2-0.1=4.1

Date Time Matrix Sample Name

4/6 0925 Soil 51-N.O-1' Comp

✓ 0930 Soil 52-East 0-1' Comp

✓ 0935 Soil 53-0-1' South Comp

✓ 0940 54-West 0-1' Comp

Container Type and #

Preservative Type

HEAL No.

Jaw

Jaw

Jaw

Date: Time: Relinquished by:

4/6/20 3:45 PM R. Jones

Date: Time: Relinquished by:

4/6/20 1:00 PM R. Jones

Received by: Via: Date Time

4/6/20 15:45

Received by: Via: Date Time

4/6/20 8:15

Remarks: Please cc the following via email:

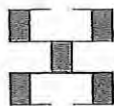
Dadkins@talonpe.com

Rpons@talonpe.com

bsinclair@talonpe.com

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.

24 hr TAT per skip. IO 4/7/20



# HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

Total Coliform (Present/Absent)

8270 (Semi-VOA)

8260 (VOA)

Cd, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

RCRA 8 Metals

PAHs by 8310 or 8270SIMS

EDB (Method 504.1)

8081 Pesticides/8082 PCBs

TPH, 8015D (GRO / DRO / MRO)

BTX / MTBE / TMBs (8021)

## **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: [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 Federal 003

OrderNo.: 2302852

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 48 sample(s) on 2/21/2023 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 light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-01 0'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 8:45:00 AM

Lab ID: 2302852-001

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 6:01:02 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 2/22/2023 6:01:02 PM |
| Surr: DNOP                                       | 87.0   | 69-147   |      | %Rec  | 1  | 2/22/2023 6:01:02 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/23/2023 6:46:54 AM |
| Surr: BFB                                        | 99.7   | 37.7-212 |      | %Rec  | 1  | 2/23/2023 6:46:54 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/23/2023 6:46:54 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/23/2023 6:46:54 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/23/2023 6:46:54 AM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 2/23/2023 6:46:54 AM |
| Surr: 4-Bromofluorobenzene                       | 92.5   | 70-130   |      | %Rec  | 1  | 2/23/2023 6:46:54 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 110    | 59       |      | mg/Kg | 20 | 2/22/2023 3:10:28 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-01 2'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 8:50:00 AM

Lab ID: 2302852-002

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 6:11:32 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 2/22/2023 6:11:32 PM  |
| Surr: DNOP                                       | 84.3   | 69-147   |      | %Rec  | 1  | 2/22/2023 6:11:32 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/23/2023 11:21:23 PM |
| Surr: BFB                                        | 104    | 37.7-212 |      | %Rec  | 1  | 2/23/2023 11:21:23 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/23/2023 11:21:23 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/23/2023 11:21:23 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/23/2023 11:21:23 PM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 2/23/2023 11:21:23 PM |
| Surr: 4-Bromofluorobenzene                       | 98.1   | 70-130   |      | %Rec  | 1  | 2/23/2023 11:21:23 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 230    | 60       |      | mg/Kg | 20 | 2/22/2023 3:22:52 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-01 4'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 8:55:00 AM

Lab ID: 2302852-003

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 6:22:02 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 2/22/2023 6:22:02 PM  |
| Surr: DNOP                                       | 84.2   | 69-147   |      | %Rec  | 1  | 2/22/2023 6:22:02 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/23/2023 11:45:02 PM |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 2/23/2023 11:45:02 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/23/2023 11:45:02 PM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/23/2023 11:45:02 PM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/23/2023 11:45:02 PM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 2/23/2023 11:45:02 PM |
| Surr: 4-Bromofluorobenzene                       | 97.9   | 70-130   |      | %Rec  | 1  | 2/23/2023 11:45:02 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 160    | 60       |      | mg/Kg | 20 | 2/22/2023 3:35:17 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-01 6'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 9:05:00 AM

Lab ID: 2302852-004

Matrix: SOIL

Received Date: 2/21/2023 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     | 10       |      | mg/Kg | 1  | 2/22/2023 6:32:30 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 2/22/2023 6:32:30 PM  |
| Surr: DNOP                                       | 86.7   | 69-147   |      | %Rec  | 1  | 2/22/2023 6:32:30 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/24/2023 12:08:34 AM |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 2/24/2023 12:08:34 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/24/2023 12:08:34 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/24/2023 12:08:34 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/24/2023 12:08:34 AM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 2/24/2023 12:08:34 AM |
| Surr: 4-Bromofluorobenzene                       | 95.6   | 70-130   |      | %Rec  | 1  | 2/24/2023 12:08:34 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 170    | 60       |      | mg/Kg | 20 | 2/22/2023 3:47:42 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-02 0'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 9:20:00 AM

Lab ID: 2302852-005

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 6:42:57 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/22/2023 6:42:57 PM  |
| Surr: DNOP                                       | 101    | 69-147   |      | %Rec  | 1  | 2/22/2023 6:42:57 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/24/2023 12:32:14 AM |
| Surr: BFB                                        | 100    | 37.7-212 |      | %Rec  | 1  | 2/24/2023 12:32:14 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/24/2023 12:32:14 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/24/2023 12:32:14 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/24/2023 12:32:14 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/24/2023 12:32:14 AM |
| Surr: 4-Bromofluorobenzene                       | 94.6   | 70-130   |      | %Rec  | 1  | 2/24/2023 12:32:14 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 620    | 60       |      | mg/Kg | 20 | 2/22/2023 4:49:45 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-02 2'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 9:25:00 AM

Lab ID: 2302852-006

Matrix: SOIL

Received Date: 2/21/2023 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     | 9.7      |      | mg/Kg | 1  | 2/22/2023 6:53:22 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 2/22/2023 6:53:22 PM  |
| Surr: DNOP                                       | 86.8   | 69-147   |      | %Rec  | 1  | 2/22/2023 6:53:22 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/24/2023 12:55:47 AM |
| Surr: BFB                                        | 100    | 37.7-212 |      | %Rec  | 1  | 2/24/2023 12:55:47 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/24/2023 12:55:47 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/24/2023 12:55:47 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/24/2023 12:55:47 AM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/24/2023 12:55:47 AM |
| Surr: 4-Bromofluorobenzene                       | 93.7   | 70-130   |      | %Rec  | 1  | 2/24/2023 12:55:47 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 730    | 60       |      | mg/Kg | 20 | 2/22/2023 5:02:09 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-02 4'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 9:30:00 AM

Lab ID: 2302852-007

Matrix: SOIL

Received Date: 2/21/2023 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     | 10       |      | mg/Kg | 1  | 2/22/2023 7:03:46 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 2/22/2023 7:03:46 PM |
| Surr: DNOP                                       | 88.2   | 69-147   |      | %Rec  | 1  | 2/22/2023 7:03:46 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 2/24/2023 1:19:15 AM |
| Surr: BFB                                        | 100    | 37.7-212 |      | %Rec  | 1  | 2/24/2023 1:19:15 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 2/24/2023 1:19:15 AM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 2/24/2023 1:19:15 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 2/24/2023 1:19:15 AM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 2/24/2023 1:19:15 AM |
| Surr: 4-Bromofluorobenzene                       | 94.5   | 70-130   |      | %Rec  | 1  | 2/24/2023 1:19:15 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 600    | 60       |      | mg/Kg | 20 | 2/22/2023 5:14:34 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-02 6'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 9:40:00 AM

Lab ID: 2302852-008

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 7:14:10 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 2/22/2023 7:14:10 PM |
| Surr: DNOP                                       | 87.7   | 69-147   |      | %Rec  | 1  | 2/22/2023 7:14:10 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/24/2023 1:42:44 AM |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 2/24/2023 1:42:44 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/24/2023 1:42:44 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/24/2023 1:42:44 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/24/2023 1:42:44 AM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 2/24/2023 1:42:44 AM |
| Surr: 4-Bromofluorobenzene                       | 95.6   | 70-130   |      | %Rec  | 1  | 2/24/2023 1:42:44 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 250    | 60       |      | mg/Kg | 20 | 2/22/2023 5:26:59 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-02 7'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 12:00:00 PM

Lab ID: 2302852-009

Matrix: SOIL

Received Date: 2/21/2023 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     | 9.4      |      | mg/Kg | 1  | 2/22/2023 7:24:31 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/22/2023 7:24:31 PM |
| Surr: DNOP                                       | 89.6   | 69-147   |      | %Rec  | 1  | 2/22/2023 7:24:31 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/24/2023 2:06:12 AM |
| Surr: BFB                                        | 100    | 37.7-212 |      | %Rec  | 1  | 2/24/2023 2:06:12 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/24/2023 2:06:12 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/24/2023 2:06:12 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/24/2023 2:06:12 AM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 2/24/2023 2:06:12 AM |
| Surr: 4-Bromofluorobenzene                       | 94.9   | 70-130   |      | %Rec  | 1  | 2/24/2023 2:06:12 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 240    | 60       |      | mg/Kg | 20 | 2/22/2023 5:39:24 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-03 0'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 10:00:00 AM

Lab ID: 2302852-010

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 7:34:52 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 2/22/2023 7:34:52 PM  |
| Surr: DNOP                                       | 93.3   | 69-147   |      | %Rec  | 1  | 2/22/2023 7:34:52 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/24/2023 2:29:41 AM  |
| Surr: BFB                                        | 99.4   | 37.7-212 |      | %Rec  | 1  | 2/24/2023 2:29:41 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/24/2023 2:29:41 AM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/24/2023 2:29:41 AM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/24/2023 2:29:41 AM  |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 2/24/2023 2:29:41 AM  |
| Surr: 4-Bromofluorobenzene                       | 93.3   | 70-130   |      | %Rec  | 1  | 2/24/2023 2:29:41 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 240    | 60       |      | mg/Kg | 20 | 2/22/2023 10:37:13 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-03 2'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 10:05:00 AM

Lab ID: 2302852-011

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 7:45:13 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 2/22/2023 7:45:13 PM  |
| Surr: DNOP                                       | 89.2   | 69-147   |      | %Rec  | 1  | 2/22/2023 7:45:13 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/24/2023 2:53:06 AM  |
| Surr: BFB                                        | 97.8   | 37.7-212 |      | %Rec  | 1  | 2/24/2023 2:53:06 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/24/2023 2:53:06 AM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/24/2023 2:53:06 AM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/24/2023 2:53:06 AM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/24/2023 2:53:06 AM  |
| Surr: 4-Bromofluorobenzene                       | 92.7   | 70-130   |      | %Rec  | 1  | 2/24/2023 2:53:06 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 1500   | 60       |      | mg/Kg | 20 | 2/22/2023 10:49:37 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. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

Page 11 of 58

## Analytical Report

Lab Order 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-03 4'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 10:10:00 AM

Lab ID: 2302852-012

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 8:05:57 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/22/2023 8:05:57 PM  |
| Surr: DNOP                                       | 103    | 69-147   |      | %Rec  | 1  | 2/22/2023 8:05:57 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/28/2023 2:28:00 AM  |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 2:28:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 2:28:00 AM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 2:28:00 AM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 2:28:00 AM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 2/28/2023 2:28:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 92.6   | 70-130   |      | %Rec  | 1  | 2/28/2023 2:28:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 660    | 60       |      | mg/Kg | 20 | 2/22/2023 11:02:02 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-03 6'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 10:15:00 AM

Lab ID: 2302852-013

Matrix: SOIL

Received Date: 2/21/2023 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     | 9.7      |      | mg/Kg | 1  | 2/22/2023 8:37:21 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 2/22/2023 8:37:21 PM  |
| Surr: DNOP                                       | 103    | 69-147   |      | %Rec  | 1  | 2/22/2023 8:37:21 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/28/2023 3:27:00 AM  |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 3:27:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 3:27:00 AM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 3:27:00 AM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 3:27:00 AM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 2/28/2023 3:27:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 92.8   | 70-130   |      | %Rec  | 1  | 2/28/2023 3:27:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 430    | 59       |      | mg/Kg | 20 | 2/22/2023 11:39:16 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-03 7'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 12:10:00 PM

Lab ID: 2302852-014

Matrix: SOIL

Received Date: 2/21/2023 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     | 8.9      |      | mg/Kg | 1  | 2/22/2023 8:47:47 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 44       |      | mg/Kg | 1  | 2/22/2023 8:47:47 PM  |
| Surr: DNOP                                       | 106    | 69-147   |      | %Rec  | 1  | 2/22/2023 8:47:47 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 2/28/2023 4:26:00 AM  |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 4:26:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 4:26:00 AM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 4:26:00 AM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 4:26:00 AM  |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 2/28/2023 4:26:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 92.4   | 70-130   |      | %Rec  | 1  | 2/28/2023 4:26:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 140    | 60       |      | mg/Kg | 20 | 2/22/2023 11:51:40 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-04 0'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 7:30:00 AM

Lab ID: 2302852-015

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 8:58:11 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 2/22/2023 8:58:11 PM  |
| Surr: DNOP                                       | 122    | 69-147   |      | %Rec  | 1  | 2/22/2023 8:58:11 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 2/28/2023 4:45:00 AM  |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 4:45:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 2/28/2023 4:45:00 AM  |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 2/28/2023 4:45:00 AM  |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 2/28/2023 4:45:00 AM  |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 2/28/2023 4:45:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 92.0   | 70-130   |      | %Rec  | 1  | 2/28/2023 4:45:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/23/2023 12:28:54 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-04 2'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 7:35:00 AM

Lab ID: 2302852-016

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 9:08:36 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/22/2023 9:08:36 PM  |
| Surr: DNOP                                       | 118    | 69-147   |      | %Rec  | 1  | 2/22/2023 9:08:36 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/28/2023 5:05:00 AM  |
| Surr: BFB                                        | 104    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 5:05:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/28/2023 5:05:00 AM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 5:05:00 AM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 5:05:00 AM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 2/28/2023 5:05:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 92.6   | 70-130   |      | %Rec  | 1  | 2/28/2023 5:05:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/23/2023 12:41:18 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. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2302852  
Date Reported: 3/6/2023

CLIENT: Vertex Resources Services, Inc.      Client Sample ID: BH23-04 4'  
Project: North Pure Gold Federal 003      Collection Date: 2/18/2023 7:40:00 AM  
Lab ID: 2302852-017      Matrix: SOIL      Received Date: 2/21/2023 7:20:00 AM

| Analyses                                  | Result | RL       | Qual | Units | DF | Date Analyzed        |
|-------------------------------------------|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS |        |          |      |       |    | Analyst: DGH         |
| Diesel Range Organics (DRO)               | ND     | 9.5      |      | mg/Kg | 1  | 2/22/2023 9:19:01 PM |
| Motor Oil Range Organics (MRO)            | ND     | 47       |      | mg/Kg | 1  | 2/22/2023 9:19:01 PM |
| Surr: DNOP                                | 104    | 69-147   |      | %Rec  | 1  | 2/22/2023 9:19:01 PM |
| EPA METHOD 8015D: GASOLINE RANGE          |        |          |      |       |    | Analyst: CCM         |
| Gasoline Range Organics (GRO)             | ND     | 4.9      |      | mg/Kg | 1  | 2/28/2023 5:24:00 AM |
| Surr: BFB                                 | 105    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 5:24:00 AM |
| EPA METHOD 8021B: VOLATILES               |        |          |      |       |    | Analyst: CCM         |
| Benzene                                   | ND     | 0.025    |      | mg/Kg | 1  | 2/28/2023 5:24:00 AM |
| Toluene                                   | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 5:24:00 AM |
| Ethylbenzene                              | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 5:24:00 AM |
| Xylenes, Total                            | ND     | 0.099    |      | mg/Kg | 1  | 2/28/2023 5:24:00 AM |
| Surr: 4-Bromofluorobenzene                | 90.7   | 70-130   |      | %Rec  | 1  | 2/28/2023 5:24:00 AM |
| EPA METHOD 300.0: ANIONS                  |        |          |      |       |    | Analyst: JMT         |
| Chloride                                  | 92     | 60       |      | mg/Kg | 20 | 2/24/2023 5:37:37 PM |

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

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

## Analytical Report

Lab Order 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-05 0'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 7:50:00 AM

Lab ID: 2302852-018

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 9:29:27 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/22/2023 9:29:27 PM |
| Surr: DNOP                                       | 101    | 69-147   |      | %Rec  | 1  | 2/22/2023 9:29:27 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 2/28/2023 5:44:00 AM |
| Surr: BFB                                        | 99.0   | 37.7-212 |      | %Rec  | 1  | 2/28/2023 5:44:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 5:44:00 AM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 5:44:00 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 5:44:00 AM |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 2/28/2023 5:44:00 AM |
| Surr: 4-Bromofluorobenzene                       | 90.5   | 70-130   |      | %Rec  | 1  | 2/28/2023 5:44:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/24/2023 5:50:29 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-05 2'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 7:55:00 AM

Lab ID: 2302852-019

Matrix: SOIL

Received Date: 2/21/2023 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     | 8.8      |      | mg/Kg | 1  | 2/22/2023 9:39:54 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 44       |      | mg/Kg | 1  | 2/22/2023 9:39:54 PM |
| Surr: DNOP                                       | 127    | 69-147   |      | %Rec  | 1  | 2/22/2023 9:39:54 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/28/2023 6:03:00 AM |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 6:03:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 6:03:00 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 6:03:00 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 6:03:00 AM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 2/28/2023 6:03:00 AM |
| Surr: 4-Bromofluorobenzene                       | 91.6   | 70-130   |      | %Rec  | 1  | 2/28/2023 6:03:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/24/2023 6:03:21 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-05 4'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 8:00:00 AM

Lab ID: 2302852-020

Matrix: SOIL

Received Date: 2/21/2023 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     | 9.7      |      | mg/Kg | 1  | 2/22/2023 9:50:22 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 2/22/2023 9:50:22 PM |
| Surr: DNOP                                       | 108    | 69-147   |      | %Rec  | 1  | 2/22/2023 9:50:22 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/28/2023 6:23:00 AM |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 6:23:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/28/2023 6:23:00 AM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 6:23:00 AM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 6:23:00 AM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 2/28/2023 6:23:00 AM |
| Surr: 4-Bromofluorobenzene                       | 93.2   | 70-130   |      | %Rec  | 1  | 2/28/2023 6:23:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 240    | 60       |      | mg/Kg | 20 | 2/24/2023 6:16:12 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-06 0'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 8:05:00 AM

Lab ID: 2302852-021

Matrix: SOIL

Received Date: 2/21/2023 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)                      | 12     | 9.2      |      | mg/Kg | 1  | 2/22/2023 10:00:51 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/22/2023 10:00:51 PM |
| Surr: DNOP                                       | 122    | 69-147   |      | %Rec  | 1  | 2/22/2023 10:00:51 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/28/2023 6:42:00 AM  |
| Surr: BFB                                        | 98.7   | 37.7-212 |      | %Rec  | 1  | 2/28/2023 6:42:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 6:42:00 AM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 6:42:00 AM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 6:42:00 AM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 2/28/2023 6:42:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 90.7   | 70-130   |      | %Rec  | 1  | 2/28/2023 6:42:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/24/2023 6:29:04 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-06 2'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 8:10:00 AM

Lab ID: 2302852-022

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 10:11:21 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/22/2023 10:11:21 PM |
| Surr: DNOP                                       | 105    | 69-147   |      | %Rec  | 1  | 2/22/2023 10:11:21 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 2/28/2023 7:21:00 AM  |
| Surr: BFB                                        | 98.0   | 37.7-212 |      | %Rec  | 1  | 2/28/2023 7:21:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 7:21:00 AM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 7:21:00 AM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 7:21:00 AM  |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 2/28/2023 7:21:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 88.7   | 70-130   |      | %Rec  | 1  | 2/28/2023 7:21:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 84     | 60       |      | mg/Kg | 20 | 2/24/2023 6:41:56 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-06 4'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 8:15:00 AM

Lab ID: 2302852-023

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 10:21:52 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 2/22/2023 10:21:52 PM |
| Surr: DNOP                                       | 86.3   | 69-147   |      | %Rec  | 1  | 2/22/2023 10:21:52 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/28/2023 7:41:00 AM  |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 7:41:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 7:41:00 AM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 7:41:00 AM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 7:41:00 AM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 2/28/2023 7:41:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 91.4   | 70-130   |      | %Rec  | 1  | 2/28/2023 7:41:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/24/2023 3:05:31 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-07 0'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 8:25:00 AM

Lab ID: 2302852-024

Matrix: SOIL

Received Date: 2/21/2023 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     | 8.6      |      | mg/Kg | 1  | 2/22/2023 10:42:45 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 43       |      | mg/Kg | 1  | 2/22/2023 10:42:45 PM |
| Surr: DNOP                                       | 94.8   | 69-147   |      | %Rec  | 1  | 2/22/2023 10:42:45 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/28/2023 8:00:00 AM  |
| Surr: BFB                                        | 105    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 8:00:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 8:00:00 AM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 8:00:00 AM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 8:00:00 AM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 2/28/2023 8:00:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 90.9   | 70-130   |      | %Rec  | 1  | 2/28/2023 8:00:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 100    | 60       |      | mg/Kg | 20 | 2/24/2023 3:17:51 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. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

Page 24 of 58

## Analytical Report

Lab Order 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-07 2'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 8:30:00 AM

Lab ID: 2302852-025

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 10:53:17 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 2/22/2023 10:53:17 PM |
| Surr: DNOP                                       | 98.5   | 69-147   |      | %Rec  | 1  | 2/22/2023 10:53:17 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 2/28/2023 8:20:00 AM  |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 8:20:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 2/28/2023 8:20:00 AM  |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 2/28/2023 8:20:00 AM  |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 2/28/2023 8:20:00 AM  |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 2/28/2023 8:20:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 91.7   | 70-130   |      | %Rec  | 1  | 2/28/2023 8:20:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 100    | 60       |      | mg/Kg | 20 | 2/24/2023 4:19:32 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-07 4'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 8:35:00 AM

Lab ID: 2302852-026

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 11:03:50 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 2/22/2023 11:03:50 PM |
| Surr: DNOP                                       | 90.6   | 69-147   |      | %Rec  | 1  | 2/22/2023 11:03:50 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/28/2023 8:39:00 AM  |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 8:39:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/28/2023 8:39:00 AM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/28/2023 8:39:00 AM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/28/2023 8:39:00 AM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/28/2023 8:39:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 91.7   | 70-130   |      | %Rec  | 1  | 2/28/2023 8:39:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | 140    | 60       |      | mg/Kg | 20 | 2/24/2023 4:31:53 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-08 0'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 8:40:00 AM

Lab ID: 2302852-027

Matrix: SOIL

Received Date: 2/21/2023 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     | 8.7      |      | mg/Kg | 1  | 2/22/2023 11:14:24 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 44       |      | mg/Kg | 1  | 2/22/2023 11:14:24 PM |
| Surr: DNOP                                       | 88.6   | 69-147   |      | %Rec  | 1  | 2/22/2023 11:14:24 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/28/2023 8:59:00 AM  |
| Surr: BFB                                        | 99.1   | 37.7-212 |      | %Rec  | 1  | 2/28/2023 8:59:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/28/2023 8:59:00 AM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/28/2023 8:59:00 AM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/28/2023 8:59:00 AM  |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 2/28/2023 8:59:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 90.2   | 70-130   |      | %Rec  | 1  | 2/28/2023 8:59:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/24/2023 4:44:14 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-08 2'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 8:45:00 AM

Lab ID: 2302852-028

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 11:24:58 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/22/2023 11:24:58 PM |
| Surr: DNOP                                       | 93.1   | 69-147   |      | %Rec  | 1  | 2/22/2023 11:24:58 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 2/28/2023 9:19:00 AM  |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 9:19:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 9:19:00 AM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 9:19:00 AM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 9:19:00 AM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 2/28/2023 9:19:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 91.7   | 70-130   |      | %Rec  | 1  | 2/28/2023 9:19:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/24/2023 4:56:35 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-08 4'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 8:50:00 AM

Lab ID: 2302852-029

Matrix: SOIL

Received Date: 2/21/2023 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     | 9.4      |      | mg/Kg | 1  | 2/22/2023 11:35:44 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/22/2023 11:35:44 PM |
| Surr: DNOP                                       | 89.0   | 69-147   |      | %Rec  | 1  | 2/22/2023 11:35:44 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/28/2023 9:38:00 AM  |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 9:38:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 9:38:00 AM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 9:38:00 AM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 9:38:00 AM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 2/28/2023 9:38:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 91.8   | 70-130   |      | %Rec  | 1  | 2/28/2023 9:38:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/24/2023 5:08:55 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-09 0'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 9:00:00 AM

Lab ID: 2302852-030

Matrix: SOIL

Received Date: 2/21/2023 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  | 2/22/2023 11:46:29 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 2/22/2023 11:46:29 PM |
| Surr: DNOP                                       | 95.8   | 69-147   |      | %Rec  | 1  | 2/22/2023 11:46:29 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 2/28/2023 9:58:00 AM  |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 9:58:00 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 9:58:00 AM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 9:58:00 AM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 9:58:00 AM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 2/28/2023 9:58:00 AM  |
| Surr: 4-Bromofluorobenzene                       | 91.3   | 70-130   |      | %Rec  | 1  | 2/28/2023 9:58:00 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JTT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/24/2023 5:21:16 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. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

Page 30 of 58

## Analytical Report

Lab Order 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-09 2'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 9:05:00 AM

Lab ID: 2302852-031

Matrix: SOIL

Received Date: 2/21/2023 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     | 8.6      |      | mg/Kg | 1  | 2/22/2023 11:57:12 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 43       |      | mg/Kg | 1  | 2/22/2023 11:57:12 PM |
| Surr: DNOP                                       | 93.3   | 69-147   |      | %Rec  | 1  | 2/22/2023 11:57:12 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 2/28/2023 10:18:00 AM |
| Surr: BFB                                        | 108    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 10:18:00 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>CCM</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 10:18:00 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 10:18:00 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 10:18:00 AM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 2/28/2023 10:18:00 AM |
| Surr: 4-Bromofluorobenzene                       | 92.5   | 70-130   |      | %Rec  | 1  | 2/28/2023 10:18:00 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/24/2023 10:46:23 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-09 4'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 9:10:00 AM

Lab ID: 2302852-032

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>    |
| Diesel Range Organics (DRO)                      | ND     | 8.9      |      | mg/Kg | 1  | 2/23/2023 11:24:33 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 44       |      | mg/Kg | 1  | 2/23/2023 11:24:33 AM |
| Surr: DNOP                                       | 92.5   | 69-147   |      | %Rec  | 1  | 2/23/2023 11:24:33 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 3:30:16 AM  |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 3:30:16 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/28/2023 3:30:16 AM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/28/2023 3:30:16 AM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/28/2023 3:30:16 AM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/28/2023 3:30:16 AM  |
| Surr: 4-Bromofluorobenzene                       | 93.3   | 70-130   |      | %Rec  | 1  | 2/28/2023 3:30:16 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/24/2023 10:59:14 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-10 0'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 9:15:00 AM

Lab ID: 2302852-033

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.2      |      | mg/Kg | 1  | 2/23/2023 12:35:48 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/23/2023 12:35:48 PM |
| Surr: DNOP                                       | 91.0   | 69-147   |      | %Rec  | 1  | 2/23/2023 12:35:48 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 3:53:42 AM  |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 3:53:42 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 3:53:42 AM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 3:53:42 AM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 3:53:42 AM  |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 2/28/2023 3:53:42 AM  |
| Surr: 4-Bromofluorobenzene                       | 94.5   | 70-130   |      | %Rec  | 1  | 2/28/2023 3:53:42 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/24/2023 11:12:06 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  | Above Quantitation Range/Estimated Value        |
|                    | H   | Holding times for preparation or analysis exceeded                            | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                                           | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                                                  | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of standard limits. If undiluted results may be estimated. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

Page 33 of 58

## Analytical Report

Lab Order 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-10 2'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 9:20:00 AM

Lab ID: 2302852-034

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 2/23/2023 12:59:41 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 2/23/2023 12:59:41 PM |
| Surr: DNOP                                       | 102    | 69-147   |      | %Rec  | 1  | 2/23/2023 12:59:41 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 4:17:08 AM  |
| Surr: BFB                                        | 99.2   | 37.7-212 |      | %Rec  | 1  | 2/28/2023 4:17:08 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 4:17:08 AM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 4:17:08 AM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 4:17:08 AM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 2/28/2023 4:17:08 AM  |
| Surr: 4-Bromofluorobenzene                       | 92.1   | 70-130   |      | %Rec  | 1  | 2/28/2023 4:17:08 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/24/2023 11:24:57 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. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

## Analytical Report

Lab Order 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-10 4'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 9:25:00 AM

Lab ID: 2302852-035

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>    |
| Diesel Range Organics (DRO)                      | ND     | 8.9      |      | mg/Kg | 1  | 2/23/2023 1:23:32 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 44       |      | mg/Kg | 1  | 2/23/2023 1:23:32 PM  |
| Surr: DNOP                                       | 106    | 69-147   |      | %Rec  | 1  | 2/23/2023 1:23:32 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 2/28/2023 4:40:35 AM  |
| Surr: BFB                                        | 98.5   | 37.7-212 |      | %Rec  | 1  | 2/28/2023 4:40:35 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 4:40:35 AM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 4:40:35 AM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 4:40:35 AM  |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 2/28/2023 4:40:35 AM  |
| Surr: 4-Bromofluorobenzene                       | 91.0   | 70-130   |      | %Rec  | 1  | 2/28/2023 4:40:35 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/24/2023 11:37:49 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-11 0'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 12:30:00 PM

Lab ID: 2302852-036

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.1      |      | mg/Kg | 1  | 2/23/2023 1:47:24 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/23/2023 1:47:24 PM  |
| Surr: DNOP                                       | 98.7   | 69-147   |      | %Rec  | 1  | 2/23/2023 1:47:24 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 2/28/2023 5:03:59 AM  |
| Surr: BFB                                        | 99.2   | 37.7-212 |      | %Rec  | 1  | 2/28/2023 5:03:59 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 5:03:59 AM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 5:03:59 AM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 5:03:59 AM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 2/28/2023 5:03:59 AM  |
| Surr: 4-Bromofluorobenzene                       | 92.1   | 70-130   |      | %Rec  | 1  | 2/28/2023 5:03:59 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 130    | 60       |      | mg/Kg | 20 | 2/24/2023 11:50:41 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  | Above Quantitation Range/Estimated Value        |
|                    | H   | Holding times for preparation or analysis exceeded                            | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                                           | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                                                  | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of standard limits. If undiluted results may be estimated. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

Page 36 of 58

## Analytical Report

Lab Order 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-11 2'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 12:35:00 PM

Lab ID: 2302852-037

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.7      |      | mg/Kg | 1  | 2/23/2023 2:11:22 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 2/23/2023 2:11:22 PM  |
| Surr: DNOP                                       | 94.0   | 69-147   |      | %Rec  | 1  | 2/23/2023 2:11:22 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 5:27:24 AM  |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 5:27:24 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/28/2023 5:27:24 AM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 5:27:24 AM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 5:27:24 AM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 2/28/2023 5:27:24 AM  |
| Surr: 4-Bromofluorobenzene                       | 93.1   | 70-130   |      | %Rec  | 1  | 2/28/2023 5:27:24 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 130    | 60       |      | mg/Kg | 20 | 2/25/2023 12:29:15 AM |

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

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

Page 37 of 58

## Analytical Report

Lab Order 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-11 4'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 12:40:00 PM

Lab ID: 2302852-038

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 2/23/2023 2:35:16 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/23/2023 2:35:16 PM |
| Surr: DNOP                                       | 90.6   | 69-147   |      | %Rec  | 1  | 2/23/2023 2:35:16 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/28/2023 5:50:48 AM |
| Surr: BFB                                        | 98.3   | 37.7-212 |      | %Rec  | 1  | 2/28/2023 5:50:48 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/28/2023 5:50:48 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/28/2023 5:50:48 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/28/2023 5:50:48 AM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 2/28/2023 5:50:48 AM |
| Surr: 4-Bromofluorobenzene                       | 90.7   | 70-130   |      | %Rec  | 1  | 2/28/2023 5:50:48 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 130    | 60       |      | mg/Kg | 20 | 2/25/2023 1:07:50 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. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

Page 38 of 58

## Analytical Report

Lab Order 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-11 6'

Project: North Pure Gold Federal 003

Collection Date: 2/17/2023 12:50:00 PM

Lab ID: 2302852-039

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.4      |      | mg/Kg | 1  | 2/23/2023 2:59:22 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/23/2023 2:59:22 PM |
| Surr: DNOP                                       | 88.6   | 69-147   |      | %Rec  | 1  | 2/23/2023 2:59:22 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 2/28/2023 6:14:12 AM |
| Surr: BFB                                        | 98.8   | 37.7-212 |      | %Rec  | 1  | 2/28/2023 6:14:12 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 2/28/2023 6:14:12 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 2/28/2023 6:14:12 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 2/28/2023 6:14:12 AM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 2/28/2023 6:14:12 AM |
| Surr: 4-Bromofluorobenzene                       | 91.2   | 70-130   |      | %Rec  | 1  | 2/28/2023 6:14:12 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 120    | 60       |      | mg/Kg | 20 | 2/25/2023 1:20:41 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-12 0'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 2:35:00 PM

Lab ID: 2302852-040

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>   |
| Diesel Range Organics (DRO)                      | 18     | 10       |      | mg/Kg | 1  | 2/23/2023 3:23:23 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 2/23/2023 3:23:23 PM |
| Surr: DNOP                                       | 99.8   | 69-147   |      | %Rec  | 1  | 2/23/2023 3:23:23 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 6:37:40 AM |
| Surr: BFB                                        | 98.4   | 37.7-212 |      | %Rec  | 1  | 2/28/2023 6:37:40 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 6:37:40 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 6:37:40 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 6:37:40 AM |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 2/28/2023 6:37:40 AM |
| Surr: 4-Bromofluorobenzene                       | 90.2   | 70-130   |      | %Rec  | 1  | 2/28/2023 6:37:40 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 70     | 60       |      | mg/Kg | 20 | 2/25/2023 1:33:33 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-12 2'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 2:40:00 PM

Lab ID: 2302852-041

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.1      |      | mg/Kg | 1  | 2/23/2023 3:47:19 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/23/2023 3:47:19 PM  |
| Surr: DNOP                                       | 103    | 69-147   |      | %Rec  | 1  | 2/23/2023 3:47:19 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 7:01:08 AM  |
| Surr: BFB                                        | 99.4   | 37.7-212 |      | %Rec  | 1  | 2/28/2023 7:01:08 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 7:01:08 AM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 7:01:08 AM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 7:01:08 AM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 2/28/2023 7:01:08 AM  |
| Surr: 4-Bromofluorobenzene                       | 90.2   | 70-130   |      | %Rec  | 1  | 2/28/2023 7:01:08 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 61       |      | mg/Kg | 20 | 2/25/2023 10:22:36 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-12 4'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 2:45:00 PM

Lab ID: 2302852-042

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>    |
| Diesel Range Organics (DRO)                      | ND     | 10       |      | mg/Kg | 1  | 2/23/2023 4:11:16 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 2/23/2023 4:11:16 PM  |
| Surr: DNOP                                       | 94.3   | 69-147   |      | %Rec  | 1  | 2/23/2023 4:11:16 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 11:46:11 AM |
| Surr: BFB                                        | 104    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 11:46:11 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 11:46:11 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 11:46:11 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 2/28/2023 11:46:11 AM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 2/28/2023 11:46:11 AM |
| Surr: 4-Bromofluorobenzene                       | 93.8   | 70-130   |      | %Rec  | 1  | 2/28/2023 11:46:11 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/25/2023 10:59:51 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. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

Page 42 of 58

## Analytical Report

Lab Order 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-12 6'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 2:55:00 PM

Lab ID: 2302852-043

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.3      |      | mg/Kg | 1  | 2/23/2023 4:59:10 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/23/2023 4:59:10 PM  |
| Surr: DNOP                                       | 97.6   | 69-147   |      | %Rec  | 1  | 2/23/2023 4:59:10 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 2/28/2023 12:10:09 PM |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 12:10:09 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 2/28/2023 12:10:09 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 12:10:09 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 12:10:09 PM |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 2/28/2023 12:10:09 PM |
| Surr: 4-Bromofluorobenzene                       | 93.1   | 70-130   |      | %Rec  | 1  | 2/28/2023 12:10:09 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>   |
| Chloride                                         | 290    | 60       |      | mg/Kg | 20 | 3/1/2023 1:42:17 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-12 7'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 3:05:00 PM

Lab ID: 2302852-044

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 2/23/2023 6:10:23 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 2/23/2023 6:10:23 PM  |
| Surr: DNOP                                       | 107    | 69-147   |      | %Rec  | 1  | 2/23/2023 6:10:23 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 12:34:00 PM |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 12:34:00 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 12:34:00 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 12:34:00 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 12:34:00 PM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 2/28/2023 12:34:00 PM |
| Surr: 4-Bromofluorobenzene                       | 93.9   | 70-130   |      | %Rec  | 1  | 2/28/2023 12:34:00 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>   |
| Chloride                                         | 280    | 61       |      | mg/Kg | 20 | 3/1/2023 1:54:37 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-13 0'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 3:15:00 PM

Lab ID: 2302852-045

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>    |
| Diesel Range Organics (DRO)                      | 61     | 9.1      |      | mg/Kg | 1  | 2/23/2023 6:34:01 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 2/23/2023 6:34:01 PM  |
| Surr: DNOP                                       | 120    | 69-147   |      | %Rec  | 1  | 2/23/2023 6:34:01 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 2/28/2023 12:57:50 PM |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 12:57:50 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 12:57:50 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 12:57:50 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 12:57:50 PM |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 2/28/2023 12:57:50 PM |
| Surr: 4-Bromofluorobenzene                       | 92.8   | 70-130   |      | %Rec  | 1  | 2/28/2023 12:57:50 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/25/2023 11:37:04 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-13 2'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 3:20:00 PM

Lab ID: 2302852-046

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.1      |      | mg/Kg | 1  | 2/23/2023 6:57:35 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 2/23/2023 6:57:35 PM  |
| Surr: DNOP                                       | 108    | 69-147   |      | %Rec  | 1  | 2/23/2023 6:57:35 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 2/28/2023 1:21:42 PM  |
| Surr: BFB                                        | 105    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 1:21:42 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 2/28/2023 1:21:42 PM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 1:21:42 PM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 2/28/2023 1:21:42 PM  |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 2/28/2023 1:21:42 PM  |
| Surr: 4-Bromofluorobenzene                       | 96.0   | 70-130   |      | %Rec  | 1  | 2/28/2023 1:21:42 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | ND     | 61       |      | mg/Kg | 20 | 2/25/2023 11:49:29 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  | Above Quantitation Range/Estimated Value        |
|                    | H   | Holding times for preparation or analysis exceeded                            | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                                           | P  | 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 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-13 4'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 3:25:00 PM

Lab ID: 2302852-047

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 2/23/2023 7:21:10 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 2/23/2023 7:21:10 PM |
| Surr: DNOP                                       | 97.2   | 69-147   |      | %Rec  | 1  | 2/23/2023 7:21:10 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 1:45:38 PM |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 1:45:38 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 2/28/2023 1:45:38 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 1:45:38 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 2/28/2023 1:45:38 PM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 2/28/2023 1:45:38 PM |
| Surr: 4-Bromofluorobenzene                       | 93.0   | 70-130   |      | %Rec  | 1  | 2/28/2023 1:45:38 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 470    | 60       |      | mg/Kg | 20 | 3/1/2023 2:06:57 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. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

## Analytical Report

Lab Order 2302852

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-13 6'

Project: North Pure Gold Federal 003

Collection Date: 2/18/2023 3:30:00 PM

Lab ID: 2302852-048

Matrix: SOIL

Received Date: 2/21/2023 7:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>ED</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.7      |      | mg/Kg | 1  | 2/23/2023 7:44:38 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 2/23/2023 7:44:38 PM |
| Surr: DNOP                                       | 98.5   | 69-147   |      | %Rec  | 1  | 2/23/2023 7:44:38 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 2/28/2023 2:09:27 PM |
| Surr: BFB                                        | 105    | 37.7-212 |      | %Rec  | 1  | 2/28/2023 2:09:27 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 2/28/2023 2:09:27 PM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 2/28/2023 2:09:27 PM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 2/28/2023 2:09:27 PM |
| Xylenes, Total                                   | ND     | 0.092    |      | mg/Kg | 1  | 2/28/2023 2:09:27 PM |
| Surr: 4-Bromofluorobenzene                       | 94.7   | 70-130   |      | %Rec  | 1  | 2/28/2023 2:09:27 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 410    | 60       |      | mg/Kg | 20 | 3/1/2023 2:19:18 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#: 2302852

06-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold Federal 003

|                             |                                 |     |                                           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|-------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Sample ID: <b>MB-73315</b>  | SampType: <b>mblk</b>           |     | TestCode: <b>EPA Method 300.0: Anions</b> |             |                     |          |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>73315</b>          |     | RunNo: <b>94813</b>                       |             |                     |          |           |      |          |      |
| Prep Date: <b>2/22/2023</b> | Analysis Date: <b>2/22/2023</b> |     | SeqNo: <b>3426772</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-73315</b> | SampType: <b>lcs</b>            |     | TestCode: <b>EPA Method 300.0: Anions</b> |             |                     |          |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>73315</b>          |     | RunNo: <b>94813</b>                       |             |                     |          |           |      |          |      |
| Prep Date: <b>2/22/2023</b> | Analysis Date: <b>2/22/2023</b> |     | SeqNo: <b>3426773</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           | 94.7                | 90       | 110       |      |          |      |

|                             |                                 |     |                                           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|-------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Sample ID: <b>MB-73325</b>  | SampType: <b>mblk</b>           |     | TestCode: <b>EPA Method 300.0: Anions</b> |             |                     |          |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>73325</b>          |     | RunNo: <b>94813</b>                       |             |                     |          |           |      |          |      |
| Prep Date: <b>2/22/2023</b> | Analysis Date: <b>2/22/2023</b> |     | SeqNo: <b>3426804</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-73325</b> | SampType: <b>lcs</b>            |     | TestCode: <b>EPA Method 300.0: Anions</b> |             |                     |          |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>73325</b>          |     | RunNo: <b>94813</b>                       |             |                     |          |           |      |          |      |
| Prep Date: <b>2/22/2023</b> | Analysis Date: <b>2/22/2023</b> |     | SeqNo: <b>3426805</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           | 94.4                | 90       | 110       |      |          |      |

|                             |                                 |     |                                           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|-------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Sample ID: <b>MB-73370</b>  | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 300.0: Anions</b> |             |                     |          |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>73370</b>          |     | RunNo: <b>94862</b>                       |             |                     |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>2/24/2023</b> |     | SeqNo: <b>3428892</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-73370</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 300.0: Anions</b> |             |                     |          |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>73370</b>          |     | RunNo: <b>94862</b>                       |             |                     |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>2/24/2023</b> |     | SeqNo: <b>3428893</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 standard limits. If undiluted results may be estimated.

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

Page 49 of 58

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302852

06-Mar-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold Federal 003

|                             |                                 |     |           |                                           |      |                     |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|-------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>LCS-73368</b> | SampType: <b>lcs</b>            |     |           | TestCode: <b>EPA Method 300.0: Anions</b> |      |                     |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>73368</b>          |     |           | RunNo: <b>94864</b>                       |      |                     |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>2/24/2023</b> |     |           | SeqNo: <b>3429240</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-73368</b>  | SampType: <b>mblk</b>           |     |           | TestCode: <b>EPA Method 300.0: Anions</b> |      |                     |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>73368</b>          |     |           | RunNo: <b>94864</b>                       |      |                     |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>2/24/2023</b> |     |           | SeqNo: <b>3429242</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>MB-73382</b>  | SampType: <b>mblk</b>           |     |           | TestCode: <b>EPA Method 300.0: Anions</b> |      |                     |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>73382</b>          |     |           | RunNo: <b>94864</b>                       |      |                     |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>2/24/2023</b> |     |           | SeqNo: <b>3429281</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-73382</b> | SampType: <b>lcs</b>            |     |           | TestCode: <b>EPA Method 300.0: Anions</b> |      |                     |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>73382</b>          |     |           | RunNo: <b>94864</b>                       |      |                     |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>2/24/2023</b> |     |           | SeqNo: <b>3429282</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-73383</b>  | SampType: <b>mblk</b>           |     |           | TestCode: <b>EPA Method 300.0: Anions</b> |      |                     |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>73383</b>          |     |           | RunNo: <b>94885</b>                       |      |                     |           |      |          |      |
| Prep Date: <b>2/25/2023</b> | Analysis Date: <b>2/25/2023</b> |     |           | SeqNo: <b>3429558</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-73383</b> | SampType: <b>lcs</b>            |     |           | TestCode: <b>EPA Method 300.0: Anions</b> |      |                     |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>73383</b>          |     |           | RunNo: <b>94885</b>                       |      |                     |           |      |          |      |
| Prep Date: <b>2/25/2023</b> | Analysis Date: <b>2/25/2023</b> |     |           | SeqNo: <b>3429559</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                                         | 96.6 | 90                  | 110       |      |          |      |

### Qualifiers:

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

QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 2302852  
06-Mar-23

Client: Vertex Resources Services, Inc.  
Project: North Pure Gold Federal 003

|                      |                          |                                                                      |
|----------------------|--------------------------|----------------------------------------------------------------------|
| Sample ID: MB-73384  | SampType: mblk           | TestCode: EPA Method 300.0: Anions                                   |
| Client ID: PBS       | Batch ID: 73384          | RunNo: 94885                                                         |
| Prep Date: 2/25/2023 | Analysis Date: 2/25/2023 | SeqNo: 3429588 Units: mg/Kg                                          |
| Analyte              | Result                   | PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride             | ND                       | 1.5                                                                  |

|                      |                          |                                                                      |
|----------------------|--------------------------|----------------------------------------------------------------------|
| Sample ID: LCS-73384 | SampType: lcs            | TestCode: EPA Method 300.0: Anions                                   |
| Client ID: LCSS      | Batch ID: 73384          | RunNo: 94885                                                         |
| Prep Date: 2/25/2023 | Analysis Date: 2/25/2023 | SeqNo: 3429589 Units: mg/Kg                                          |
| 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#: 2302852

06-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold Federal 003

| Sample ID: <b>2302852-012AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH23-03 4'</b>     | Batch ID: <b>73295</b>          | RunNo: <b>94831</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>2/21/2023</b>      | Analysis Date: <b>2/22/2023</b> | SeqNo: <b>3427359</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                              | 9.6                                                        | 47.85     | 0           | 89.1 | 54.2     | 135       |      |          |      |
| Surr: DNOP                       | 4.2                             |                                                            | 4.785     |             | 88.0 | 69       | 147       |      |          |      |

| Sample ID: <b>2302852-012AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |       |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: <b>BH23-03 4'</b>      | Batch ID: <b>73295</b>          | RunNo: <b>94831</b>                                        |           |             |      |          |           |       |          |      |
| Prep Date: <b>2/21/2023</b>       | Analysis Date: <b>2/22/2023</b> | SeqNo: <b>3427360</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                              | 9.6                                                        | 47.98     | 0           | 89.1 | 54.2     | 135       | 0.231 | 29.2     |      |
| Surr: DNOP                        | 4.1                             |                                                            | 4.798     |             | 85.6 | 69       | 147       | 0     | 0        |      |

| Sample ID: <b>LCS-73285</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73285</b>          | RunNo: <b>94831</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>2/21/2023</b> | Analysis Date: <b>2/22/2023</b> | SeqNo: <b>3427389</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                              | 10                                                         | 50.00     | 0           | 82.1 | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 4.3                             |                                                            | 5.000     |             | 85.3 | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-73295</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73295</b>          | RunNo: <b>94831</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>2/21/2023</b> | Analysis Date: <b>2/22/2023</b> | SeqNo: <b>3427391</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                  | 5.1                             |                                                            | 5.000     |             | 101  | 69       | 147       |      |          |      |

| Sample ID: <b>MB-73285</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>73285</b>          | RunNo: <b>94831</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>2/21/2023</b>    | Analysis Date: <b>2/22/2023</b> | SeqNo: <b>3427393</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     |             | 94.7 | 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#: 2302852

06-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold Federal 003

| Sample ID: <b>MB-73295</b>     | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
|--------------------------------|---------------------------------|-----|------------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>73295</b>          |     | RunNo: <b>94831</b>                                        |             |                     |          |           |      |          |      |
| Prep Date: <b>2/21/2023</b>    | Analysis Date: <b>2/22/2023</b> |     | SeqNo: <b>3427395</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                                                      |             | 118                 | 69       | 147       |      |          |      |

| Sample ID: <b>MB-73305</b>     | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
|--------------------------------|---------------------------------|-----|------------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>73305</b>          |     | RunNo: <b>94840</b>                                        |             |                     |          |           |      |          |      |
| Prep Date: <b>2/22/2023</b>    | Analysis Date: <b>2/23/2023</b> |     | SeqNo: <b>3427623</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-73305</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|------------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73305</b>          |     | RunNo: <b>94840</b>                                        |             |                     |          |           |      |          |      |
| Prep Date: <b>2/22/2023</b> | Analysis Date: <b>2/23/2023</b> |     | SeqNo: <b>3427624</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                              | 10  | 50.00                                                      | 0           | 103                 | 61.9     | 130       |      |          |      |
| Surr: DNOP                  | 4.3                             |     | 5.000                                                      |             | 86.2                | 69       | 147       |      |          |      |

| Sample ID: <b>2302852-032AMS</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
|----------------------------------|---------------------------------|-----|------------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BH23-09 4'</b>     | Batch ID: <b>73305</b>          |     | RunNo: <b>94840</b>                                        |             |                     |          |           |      |          |      |
| Prep Date: <b>2/22/2023</b>      | Analysis Date: <b>2/23/2023</b> |     | SeqNo: <b>3427626</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                              | 9.7 | 48.31                                                      | 0           | 108                 | 54.2     | 135       |      |          |      |
| Surr: DNOP                       | 4.6                             |     | 4.831                                                      |             | 95.4                | 69       | 147       |      |          |      |

| Sample ID: <b>2302852-032AMSD</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
|-----------------------------------|---------------------------------|-----|------------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BH23-09 4'</b>      | Batch ID: <b>73305</b>          |     | RunNo: <b>94840</b>                                        |             |                     |          |           |      |          |      |
| Prep Date: <b>2/22/2023</b>       | Analysis Date: <b>2/23/2023</b> |     | SeqNo: <b>3427627</b>                                      |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL | SPK value                                                  | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 58                              | 9.6 | 47.98                                                      | 0           | 120                 | 54.2     | 135       | 9.49 | 29.2     |      |
| Surr: DNOP                        | 5.2                             |     | 4.798                                                      |             | 108                 | 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#: 2302852

06-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold Federal 003

|                               |                                 |     |           |                                                   |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|---------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>ics-73276</b>   | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |      |                     |           |      |          |      |
| Client ID: <b>LCSS</b>        | Batch ID: <b>73276</b>          |     |           | RunNo: <b>94799</b>                               |      |                     |           |      |          |      |
| Prep Date: <b>2/21/2023</b>   | Analysis Date: <b>2/23/2023</b> |     |           | SeqNo: <b>3427151</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                                                 | 92.8 | 72.3                | 137       |      |          |      |
| Surr: BFB                     | 1900                            |     | 1000      |                                                   | 190  | 37.7                | 212       |      |          |      |

|                               |                                 |     |           |                                                   |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|---------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>mb-73276</b>    | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |      |                     |           |      |          |      |
| Client ID: <b>PBS</b>         | Batch ID: <b>73276</b>          |     |           | RunNo: <b>94799</b>                               |      |                     |           |      |          |      |
| Prep Date: <b>2/21/2023</b>   | Analysis Date: <b>2/23/2023</b> |     |           | SeqNo: <b>3427152</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                     | 990                             |     | 1000      |                                                   | 99.2 | 37.7                | 212       |      |          |      |

|                               |                                 |     |           |                                                   |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|---------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>MB-73287</b>    | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |      |                     |           |      |          |      |
| Client ID: <b>PBS</b>         | Batch ID: <b>73287</b>          |     |           | RunNo: <b>94903</b>                               |      |                     |           |      |          |      |
| Prep Date: <b>2/21/2023</b>   | Analysis Date: <b>2/28/2023</b> |     |           | SeqNo: <b>3430989</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>2302852-012AMS</b> | SampType: <b>MS</b>             |     |           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |      |                     |           |      |          |      |
| Client ID: <b>BH23-03 4'</b>     | Batch ID: <b>73287</b>          |     |           | RunNo: <b>94903</b>                               |      |                     |           |      |          |      |
| Prep Date: <b>2/21/2023</b>      | Analysis Date: <b>2/28/2023</b> |     |           | SeqNo: <b>3430991</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                              | 4.8 | 23.81     | 0                                                 | 92.9 | 70                  | 130       |      |          |      |
| Surr: BFB                        | 2100                            |     | 952.4     |                                                   | 219  | 37.7                | 212       |      |          | S    |

|                                   |                                 |     |           |                                                   |      |                     |           |      |          |      |
|-----------------------------------|---------------------------------|-----|-----------|---------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>2302852-012AMSD</b> | SampType: <b>MSD</b>            |     |           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |      |                     |           |      |          |      |
| Client ID: <b>BH23-03 4'</b>      | Batch ID: <b>73287</b>          |     |           | RunNo: <b>94903</b>                               |      |                     |           |      |          |      |
| Prep Date: <b>2/21/2023</b>       | Analysis Date: <b>2/28/2023</b> |     |           | SeqNo: <b>3430992</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                              | 4.8 | 23.81     | 0                                                 | 91.9 | 70                  | 130       | 1.13 | 20       |      |
| Surr: BFB                         | 2100                            |     | 952.4     |                                                   | 217  | 37.7                | 212       | 0    | 0        | S    |

|                             |                                 |     |           |                                                   |      |                     |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|---------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>ics-73291</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |      |                     |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>73291</b>          |     |           | RunNo: <b>94890</b>                               |      |                     |           |      |          |      |
| Prep Date: <b>2/21/2023</b> | Analysis Date: <b>2/28/2023</b> |     |           | SeqNo: <b>3431010</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#: 2302852

06-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold Federal 003

| Sample ID: <b>lcs-73291</b>   | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|---------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>73291</b>          |     |           | RunNo: <b>94890</b>                               |      |                     |           |      |          |      |
| Prep Date: <b>2/21/2023</b>   | Analysis Date: <b>2/28/2023</b> |     |           | SeqNo: <b>3431010</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                                                 | 99.0 | 72.3                | 137       |      |          |      |
| Surr: BFB                     | 2000                            |     | 1000      |                                                   | 200  | 37.7                | 212       |      |          |      |

| Sample ID: <b>mb-73291</b>    | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|---------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>73291</b>          |     |           | RunNo: <b>94890</b>                               |      |                     |           |      |          |      |
| Prep Date: <b>2/21/2023</b>   | Analysis Date: <b>2/28/2023</b> |     |           | SeqNo: <b>3431011</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                     | 990                             |     | 1000      |                                                   | 98.5 | 37.7                | 212       |      |          |      |

| Sample ID: <b>LCS-73287</b>   | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|---------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>73287</b>          |     |           | RunNo: <b>94903</b>                               |      |                     |           |      |          |      |
| Prep Date: <b>2/21/2023</b>   | Analysis Date: <b>2/28/2023</b> |     |           | SeqNo: <b>3431190</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                                                 | 97.3 | 72.3                | 137       |      |          |      |
| Surr: BFB                     | 2200                            |     | 1000      |                                                   | 224  | 37.7                | 212       |      |          | S    |

| Sample ID: <b>2302852-032ams</b> | SampType: <b>MS</b>             |     |           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |      |                     |           |      |          |      |
|----------------------------------|---------------------------------|-----|-----------|---------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>BH23-09 4'</b>     | Batch ID: <b>73291</b>          |     |           | RunNo: <b>94910</b>                               |      |                     |           |      |          |      |
| Prep Date: <b>2/21/2023</b>      | Analysis Date: <b>2/28/2023</b> |     |           | SeqNo: <b>3431695</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 | 24.78     | 0                                                 | 98.8 | 70                  | 130       |      |          |      |
| Surr: BFB                        | 2000                            |     | 991.1     |                                                   | 202  | 37.7                | 212       |      |          |      |

| Sample ID: <b>2302852-032amsd</b> | SampType: <b>MSD</b>            |     |           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |      |                     |           |      |          |      |
|-----------------------------------|---------------------------------|-----|-----------|---------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>BH23-09 4'</b>      | Batch ID: <b>73291</b>          |     |           | RunNo: <b>94910</b>                               |      |                     |           |      |          |      |
| Prep Date: <b>2/21/2023</b>       | Analysis Date: <b>2/28/2023</b> |     |           | SeqNo: <b>3431696</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 | 24.78     | 0                                                 | 101  | 70                  | 130       | 2.00 | 20       |      |
| Surr: BFB                         | 2000                            |     | 991.1     |                                                   | 205  | 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#: 2302852

06-Mar-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold Federal 003

|                             |                                 |       |           |                                              |      |                     |           |      |          |      |
|-----------------------------|---------------------------------|-------|-----------|----------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>LCS-73276</b> | SampType: <b>LCS</b>            |       |           | TestCode: <b>EPA Method 8021B: Volatiles</b> |      |                     |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>73276</b>          |       |           | RunNo: <b>94799</b>                          |      |                     |           |      |          |      |
| Prep Date: <b>2/21/2023</b> | Analysis Date: <b>2/23/2023</b> |       |           | SeqNo: <b>3427180</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 | 1.000     | 0                                            | 89.7 | 80                  | 120       |      |          |      |
| Toluene                     | 0.92                            | 0.050 | 1.000     | 0                                            | 92.2 | 80                  | 120       |      |          |      |
| Ethylbenzene                | 0.90                            | 0.050 | 1.000     | 0                                            | 90.2 | 80                  | 120       |      |          |      |
| Xylenes, Total              | 2.7                             | 0.10  | 3.000     | 0                                            | 90.7 | 80                  | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.96                            |       | 1.000     |                                              | 96.3 | 70                  | 130       |      |          |      |

|                             |                                 |       |           |                                              |      |                     |           |      |          |      |
|-----------------------------|---------------------------------|-------|-----------|----------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>mb-73276</b>  | SampType: <b>MBLK</b>           |       |           | TestCode: <b>EPA Method 8021B: Volatiles</b> |      |                     |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>73276</b>          |       |           | RunNo: <b>94799</b>                          |      |                     |           |      |          |      |
| Prep Date: <b>2/21/2023</b> | Analysis Date: <b>2/23/2023</b> |       |           | SeqNo: <b>3427181</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     |                                              | 93.0 | 70                  | 130       |      |          |      |

|                             |                                 |       |           |                                              |      |                     |           |      |          |      |
|-----------------------------|---------------------------------|-------|-----------|----------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>LCS-73291</b> | SampType: <b>LCS</b>            |       |           | TestCode: <b>EPA Method 8021B: Volatiles</b> |      |                     |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>73291</b>          |       |           | RunNo: <b>94890</b>                          |      |                     |           |      |          |      |
| Prep Date: <b>2/21/2023</b> | Analysis Date: <b>2/28/2023</b> |       |           | SeqNo: <b>3431022</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                                            | 91.2 | 80                  | 120       |      |          |      |
| Toluene                     | 0.95                            | 0.050 | 1.000     | 0                                            | 94.6 | 80                  | 120       |      |          |      |
| Ethylbenzene                | 0.93                            | 0.050 | 1.000     | 0                                            | 93.2 | 80                  | 120       |      |          |      |
| Xylenes, Total              | 2.8                             | 0.10  | 3.000     | 0                                            | 93.3 | 80                  | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.95                            |       | 1.000     |                                              | 94.6 | 70                  | 130       |      |          |      |

|                             |                                 |       |           |                                              |      |                     |           |      |          |      |
|-----------------------------|---------------------------------|-------|-----------|----------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>mb-73291</b>  | SampType: <b>MBLK</b>           |       |           | TestCode: <b>EPA Method 8021B: Volatiles</b> |      |                     |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>73291</b>          |       |           | RunNo: <b>94890</b>                          |      |                     |           |      |          |      |
| Prep Date: <b>2/21/2023</b> | Analysis Date: <b>2/28/2023</b> |       |           | SeqNo: <b>3431023</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     |                                              | 91.2 | 70                  | 130       |      |          |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical 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#: 2302852

06-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold Federal 003

| Sample ID: <b>MB-73287</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>73287</b>          | RunNo: <b>94903</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>2/21/2023</b> | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3431194</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 |  | 93.1 | 70 | 130 |  |  |  |

| Sample ID: <b>2302852-013AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|----------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH23-03 6'</b>     | Batch ID: <b>73287</b>          | RunNo: <b>94903</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>2/21/2023</b>      | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3431198</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 | 0.9690 | 0 | 90.4 | 68.8 | 120 |  |  |  |
| Toluene                    | 0.89 | 0.048 | 0.9690 | 0 | 91.8 | 73.6 | 124 |  |  |  |
| Ethylbenzene               | 0.88 | 0.048 | 0.9690 | 0 | 90.7 | 72.7 | 129 |  |  |  |
| Xylenes, Total             | 2.6  | 0.097 | 2.907  | 0 | 90.3 | 75.7 | 126 |  |  |  |
| Surr: 4-Bromofluorobenzene | 0.91 |       | 0.9690 |   | 93.7 | 70   | 130 |  |  |  |

| Sample ID: <b>2302852-013AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|----------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BH23-03 6'</b>      | Batch ID: <b>73287</b>          | RunNo: <b>94903</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>2/21/2023</b>       | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3431199</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 | 0.9699 | 0 | 90.8 | 68.8 | 120 | 0.579 | 20 |  |
| Toluene                    | 0.89 | 0.048 | 0.9699 | 0 | 91.3 | 73.6 | 124 | 0.475 | 20 |  |
| Ethylbenzene               | 0.89 | 0.048 | 0.9699 | 0 | 91.6 | 72.7 | 129 | 1.06  | 20 |  |
| Xylenes, Total             | 2.6  | 0.097 | 2.910  | 0 | 90.7 | 75.7 | 126 | 0.565 | 20 |  |
| Surr: 4-Bromofluorobenzene | 0.90 |       | 0.9699 |   | 93.2 | 70   | 130 | 0     | 0  |  |

| Sample ID: <b>LCS-73287</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73287</b>          | RunNo: <b>94903</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>2/21/2023</b> | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3431241</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 | 86.8 | 80 | 120 |  |  |  |
| Ethylbenzene               | 0.86 | 0.050 | 1.000 | 0 | 86.4 | 80 | 120 |  |  |  |
| Xylenes, Total             | 2.6  | 0.10  | 3.000 | 0 | 86.7 | 80 | 120 |  |  |  |
| Surr: 4-Bromofluorobenzene | 0.95 |       | 1.000 |   | 95.2 | 70 | 130 |  |  |  |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302852

06-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold Federal 003

|                                  |                                 |       |                                              |             |                     |          |           |      |          |      |
|----------------------------------|---------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Sample ID: <b>2302852-033ams</b> | SampType: <b>MS</b>             |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
| Client ID: <b>BH23-10 0'</b>     | Batch ID: <b>73291</b>          |       | RunNo: <b>94910</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>2/21/2023</b>      | Analysis Date: <b>2/28/2023</b> |       | SeqNo: <b>3431711</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 | 0.9625                                       | 0           | 91.1                | 68.8     | 120       |      |          |      |
| Toluene                          | 0.91                            | 0.048 | 0.9625                                       | 0.01665     | 92.3                | 73.6     | 124       |      |          |      |
| Ethylbenzene                     | 0.89                            | 0.048 | 0.9625                                       | 0           | 92.5                | 72.7     | 129       |      |          |      |
| Xylenes, Total                   | 2.7                             | 0.096 | 2.887                                        | 0           | 93.5                | 75.7     | 126       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.93                            |       | 0.9625                                       |             | 97.1                | 70       | 130       |      |          |      |

|                                   |                                 |       |                                              |             |                     |          |           |       |          |      |
|-----------------------------------|---------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|-------|----------|------|
| Sample ID: <b>2302852-033amsd</b> | SampType: <b>MSD</b>            |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |       |          |      |
| Client ID: <b>BH23-10 0'</b>      | Batch ID: <b>73291</b>          |       | RunNo: <b>94910</b>                          |             |                     |          |           |       |          |      |
| Prep Date: <b>2/21/2023</b>       | Analysis Date: <b>2/28/2023</b> |       | SeqNo: <b>3431712</b>                        |             | Units: <b>mg/Kg</b> |          |           |       |          |      |
| Analyte                           | Result                          | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Benzene                           | 0.85                            | 0.024 | 0.9643                                       | 0           | 88.5                | 68.8     | 120       | 2.66  | 20       |      |
| Toluene                           | 0.89                            | 0.048 | 0.9643                                       | 0.01665     | 90.5                | 73.6     | 124       | 1.79  | 20       |      |
| Ethylbenzene                      | 0.88                            | 0.048 | 0.9643                                       | 0           | 91.6                | 72.7     | 129       | 0.709 | 20       |      |
| Xylenes, Total                    | 2.7                             | 0.096 | 2.893                                        | 0           | 91.6                | 75.7     | 126       | 1.79  | 20       |      |
| Surr: 4-Bromofluorobenzene        | 0.94                            |       | 0.9643                                       |             | 97.1                | 70       | 130       | 0     | 0        |      |

**Qualifiers:**

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

Page 58 of 58



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: 2302852 RcptNo: 1

Received By: Tracy Casarrubias 2/21/2023 7:20:00 AM

Completed By: Tracy Casarrubias 2/21/2023 7:56:04 AM

Reviewed By: *jn 2/21/23*

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: *JA 2-21-23*

### 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:

### 17. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1         | 5.2                     | Good      | Yes         | Yogi    |           |           |
| 2         | 5.4                     | Good      | Yes         | Yogi    |           |           |

Client: **Vertex**

---

(direct bill to Devon)

---

Mailing Address:

---

Phone #:

---

email or Fax#:

---

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

---

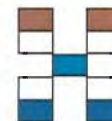
Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other \_\_\_\_\_

---

☐ EDD (Type) \_\_\_\_\_

|                                                                |                                                                                 |
|----------------------------------------------------------------|---------------------------------------------------------------------------------|
| Turn-Around Time:                                              |                                                                                 |
| <input checked="" type="checkbox"/> Standard                   | <input checked="" type="checkbox"/> Rush <u>5 Day</u>                           |
| Project Name:                                                  |                                                                                 |
| North Pure Gold 4 Federal #003                                 |                                                                                 |
| Project #:                                                     |                                                                                 |
| 22E-02816-06                                                   |                                                                                 |
| Project Manager:                                               |                                                                                 |
| Kent Stallings                                                 |                                                                                 |
| <a href="mailto:kstallings@vertex.ca">kstallings@vertex.ca</a> |                                                                                 |
| Sampler:                                                       | L. Pullman                                                                      |
| On Ice:                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>ypgi</u> |
| # of Coolers:                                                  | <u>2</u>                                                                        |



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

[illegible]

|                    |                |                                        |                                 |
|--------------------|----------------|----------------------------------------|---------------------------------|
| Date:<br>2-20-2013 | Time:<br>07:00 | Relinquished by:<br><i>[Signature]</i> | BH23<br>1 per<br>per<br>2/22/13 |
| Date:<br>2/20/13   | Time:<br>1900  | Relinquished by:<br><i>[Signature]</i> |                                 |

|               |                 |         |      |
|---------------|-----------------|---------|------|
| Received by:  | Via:            | Date    | Time |
| <i>Admuni</i> |                 | 2/20/13 | 7:00 |
| Received by:  | Via: <i>can</i> | Date    | Time |
|               |                 | 2/21/13 | 7:20 |

Remarks:  
Direct bill to Devon, Dale Woodall  
cc. kstallings@vertex.ca for Final Report

1/4

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 notated on the analytical report.

## 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) \_\_\_\_\_

Turn-Around Time:

☒ Standard ☒ Rush 5 Day

Project Name:

**North Pure Gold 4 Federal #003**

Project #:

**22E-02816-06**

Project Manager:

Kent Stallings

[kstallings@vertex.ca](mailto:kstallings@vertex.ca)

Sampler: L. Pullman

On Ice: ☒ Yes ☐ No yes

# of Coolers: 2

Cooler Temp (including CF): 5.3 -0.1 -5.2 °C

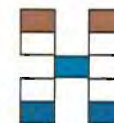
| Date     | Time  | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. |
|----------|-------|--------|-------------|----------------------|-------------------|----------|
| 02/17/23 | 10:15 | Soil   | BH22-03 6'  | 1, 4oz jar           |                   | 013      |
| 02/17/23 | 12:10 | Soil   | BH22-03 7'  | 1, 4oz jar           |                   | 014      |
| 02/18/23 | 7:30  | Soil   | BH22-04 0'  | 1, 4oz jar           |                   | 015      |
| 02/18/23 | 7:35  | Soil   | BH22-04 2'  | 1, 4oz jar           |                   | 016      |
| 02/18/23 | 7:40  | Soil   | BH22-04 4'  | 1, 4oz jar           |                   | 017      |
| 02/18/23 | 7:50  | Soil   | BH22-05 0'  | 1, 4oz jar           |                   | 018      |
| 02/18/23 | 7:55  | Soil   | BH22-05 2'  | 1, 4oz jar           |                   | 019      |
| 02/18/23 | 8:00  | Soil   | BH22-05 4'  | 1, 4oz jar           |                   | 020      |
| 02/18/23 | 8:05  | Soil   | BH22-06 0'  | 1, 4oz jar           |                   | 021      |
| 02/18/23 | 8:10  | Soil   | BH22-06 2'  | 1, 4oz jar           |                   | 022      |
| 02/18/23 | 8:15  | Soil   | BH22-06 4'  | 1, 4oz jar           |                   | 023      |
| 02/18/23 | 8:25  | Soil   | BH22-07 0'  | 1, 4oz jar           |                   | 024      |

Date: 2-20-2023 Time: 07:00 Relinquished by: Dale Woodall

Date: 2/20/23 Time: 1900 Relinquished by: acmmmmmm

Received by: acmmmmmm Via: car Date: 2/20/23 Time: 7:00

Received by: acmmmmmm Via: car Date: 2/21/23 Time: 7:20



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## 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                                                                                |            |                 |                                 |  |  |  |  |  |  |  |  |  |  |

Remarks:

Direct bill to Devon, Dale Woodall

cc. [kstallings@vertex.ca](mailto:kstallings@vertex.ca) for Final Report

2/4

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 notated on the analytical report.

Client: **Vertex**

---

(direct bill to Devon)

---

Mailing Address:

---

---

Phone #:

---

email or Fax#:

---

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

---

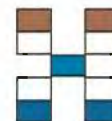
Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other \_\_\_\_\_

---

☐ EDD (Type) \_\_\_\_\_

|                                                                |                                                                                 |
|----------------------------------------------------------------|---------------------------------------------------------------------------------|
| Turn-Around Time:                                              |                                                                                 |
| <input checked="" type="checkbox"/> Standard                   | <input checked="" type="checkbox"/> Rush <u>5 Day</u>                           |
| Project Name:                                                  |                                                                                 |
| North Pure Gold 4 Federal #003                                 |                                                                                 |
| Project #:                                                     |                                                                                 |
| 22E-02816-06                                                   |                                                                                 |
| Project Manager:                                               |                                                                                 |
| Kent Stallings                                                 |                                                                                 |
| <a href="mailto:kstallings@vertex.ca">kstallings@vertex.ca</a> |                                                                                 |
| Sampler:                                                       | L. Pullman                                                                      |
| On Ice:                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>40gi</u> |
| # of Coolers:                                                  | <u>2</u>                                                                        |



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

| Date     | Time  | Matrix | Sample Name | Cooler Temp (including CF): $5.3 - 0.1 = 5.2^{\circ}\text{C}$ |                   | HEAL No. | BTEX | TPH: 8015D | 8081 Pestic | EDB (Metho | PAHs by 83 | RCRA 8 Me | Cl F, Br, N | 8260 (VOA) | 8270 (Semi- | Total Colifor |
|----------|-------|--------|-------------|---------------------------------------------------------------|-------------------|----------|------|------------|-------------|------------|------------|-----------|-------------|------------|-------------|---------------|
|          |       |        |             | Container Type and #                                          | Preservative Type |          |      |            |             |            |            |           |             |            |             |               |
| 02/18/23 | 8:30  | Soil   | BH22-07 2'  | 1, 4oz jar                                                    |                   | 025      | X    | X          |             |            |            |           | X           |            |             |               |
| 02/18/23 | 8:35  | Soil   | BH22-07 4'  | 1, 4oz jar                                                    |                   | 026      | X    | X          |             |            |            |           | X           |            |             |               |
| 02/18/23 | 8:40  | Soil   | BH22-08 0'  | 1, 4oz jar                                                    |                   | 027      | X    | X          |             |            |            |           | X           |            |             |               |
| 02/18/23 | 8:45  | Soil   | BH22-08 2'  | 1, 4oz jar                                                    |                   | 028      | X    | X          |             |            |            |           | X           |            |             |               |
| 02/18/23 | 8:50  | Soil   | BH22-08 4'  | 1, 4oz jar                                                    |                   | 029      | X    | X          |             |            |            |           | X           |            |             |               |
| 02/18/23 | 9:00  | Soil   | BH22-09 0'  | 1, 4oz jar                                                    |                   | 030      | X    | X          |             |            |            |           | X           |            |             |               |
| 02/18/23 | 9:05  | Soil   | BH22-09 2'  | 1, 4oz jar                                                    |                   | 031      | X    | X          |             |            |            |           | X           |            |             |               |
| 02/18/23 | 9:10  | Soil   | BH22-09 4'  | 1, 4oz jar                                                    |                   | 032      | X    | X          |             |            |            |           | X           |            |             |               |
| 02/18/23 | 9:15  | Soil   | BH22-10 0'  | 1, 4oz jar                                                    |                   | 033      | X    | X          |             |            |            |           | X           |            |             |               |
| 02/18/23 | 9:20  | Soil   | BH22-10 2'  | 1, 4oz jar                                                    |                   | 034      | X    | X          |             |            |            |           | X           |            |             |               |
| 02/18/23 | 9:25  | Soil   | BH22-10 4'  | 1, 4oz jar                                                    |                   | 035      | X    | X          |             |            |            |           | X           |            |             |               |
| 02/17/23 | 12:30 | Soil   | BH22-11 0'  | 1, 4oz jar                                                    |                   | 036      | X    | X          |             |            |            |           | X           |            |             |               |

Date: 2-20-23 Time: 07:00 Relinquished by: [Signature]

Date: 2/20/23 Time: 1900 Relinquished by: [Signature]

Received by: [Signature] Via: [Signature] Date: 2/20/23 Time: 7:00

Received by: [Signature] Via: [Signature] Date: 2/21/23 Time: 7:20

Remarks:  
Direct bill to Devon, Dale Woodall  
cc. kstallings@vertex.ca for Final Report

3/4

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 notated on the analytical report.

Chain-of-Custody Record

Client: **Vertex**

---

(direct bill to Devon)

---

Mailing Address:

---

---

Phone #:

---

email or Fax#:

---

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

---

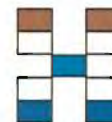
Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other \_\_\_\_\_

---

☐ EDD (Type)

|                                                                |                                                                                 |
|----------------------------------------------------------------|---------------------------------------------------------------------------------|
| Turn-Around Time:                                              |                                                                                 |
| <input checked="" type="checkbox"/> Standard                   | <input checked="" type="checkbox"/> Rush <u>5 Day</u>                           |
| Project Name:                                                  |                                                                                 |
| <b>North Pure Gold 4 Federal #003</b>                          |                                                                                 |
| Project #:                                                     |                                                                                 |
| <b>22E-02816-06</b>                                            |                                                                                 |
| Project Manager:                                               |                                                                                 |
| Kent Stallings                                                 |                                                                                 |
| <a href="mailto:kstallings@vertex.ca">kstallings@vertex.ca</a> |                                                                                 |
| Sampler:                                                       | L. Pullman                                                                      |
| On Ice:                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>400g</u> |
| # of Coolers:                                                  | <u>2</u>                                                                        |



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

[illegible]

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 08, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: North Pure Gold 4 Federal 003

OrderNo.: 2302A66

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 27 sample(s) on 2/24/2023 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 light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-14 0'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 7:40:00 AM

Lab ID: 2302A66-001

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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  | 2/28/2023 12:41:59 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 2/28/2023 12:41:59 AM |
| Surr: DNOP                                       | 98.6   | 69-147   |      | %Rec  | 1  | 2/28/2023 12:41:59 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 3/1/2023 1:05:17 PM   |
| Surr: BFB                                        | 100    | 37.7-212 |      | %Rec  | 1  | 3/1/2023 1:05:17 PM   |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 3/1/2023 1:05:17 PM   |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 3/1/2023 1:05:17 PM   |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 3/1/2023 1:05:17 PM   |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 3/1/2023 1:05:17 PM   |
| Surr: 4-Bromofluorobenzene                       | 93.5   | 70-130   |      | %Rec  | 1  | 3/1/2023 1:05:17 PM   |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 210    | 60       |      | mg/Kg | 20 | 2/28/2023 2:31:10 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-14 2'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 7:45:00 AM

Lab ID: 2302A66-002

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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  | 2/28/2023 12:55:41 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 2/28/2023 12:55:41 AM |
| Surr: DNOP                                       | 97.9   | 69-147   |      | %Rec  | 1  | 2/28/2023 12:55:41 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 3/1/2023 1:29:00 PM   |
| Surr: BFB                                        | 99.9   | 37.7-212 |      | %Rec  | 1  | 3/1/2023 1:29:00 PM   |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 3/1/2023 1:29:00 PM   |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 3/1/2023 1:29:00 PM   |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 3/1/2023 1:29:00 PM   |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 3/1/2023 1:29:00 PM   |
| Surr: 4-Bromofluorobenzene                       | 92.6   | 70-130   |      | %Rec  | 1  | 3/1/2023 1:29:00 PM   |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 130    | 60       |      | mg/Kg | 20 | 2/28/2023 2:43:34 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-14 4'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 7:50:00 AM

Lab ID: 2302A66-003

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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  | 2/28/2023 1:08:54 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 2/28/2023 1:08:54 AM |
| Surr: DNOP                                       | 94.3   | 69-147   |      | %Rec  | 1  | 2/28/2023 1:08:54 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 3/1/2023 1:52:45 PM  |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 3/1/2023 1:52:45 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/1/2023 1:52:45 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 3/1/2023 1:52:45 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 3/1/2023 1:52:45 PM  |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 3/1/2023 1:52:45 PM  |
| Surr: 4-Bromofluorobenzene                       | 91.1   | 70-130   |      | %Rec  | 1  | 3/1/2023 1:52:45 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>  |
| Chloride                                         | 170    | 60       |      | mg/Kg | 20 | 2/28/2023 2:55:59 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-15 0'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 8:00:00 AM

Lab ID: 2302A66-004

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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 1:21:58 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/28/2023 1:21:58 AM |
| Surr: DNOP                                       | 95.4   | 69-147   |      | %Rec  | 1  | 2/28/2023 1:21:58 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 3/1/2023 2:16:22 PM  |
| Surr: BFB                                        | 99.4   | 37.7-212 |      | %Rec  | 1  | 3/1/2023 2:16:22 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/1/2023 2:16:22 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 3/1/2023 2:16:22 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 3/1/2023 2:16:22 PM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 3/1/2023 2:16:22 PM  |
| Surr: 4-Bromofluorobenzene                       | 90.8   | 70-130   |      | %Rec  | 1  | 3/1/2023 2:16:22 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>  |
| Chloride                                         | 160    | 60       |      | mg/Kg | 20 | 2/28/2023 3:08:24 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-15 2'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 8:05:00 AM

Lab ID: 2302A66-005

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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 1:34:52 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/28/2023 1:34:52 AM |
| Surr: DNOP                                       | 101    | 69-147   |      | %Rec  | 1  | 2/28/2023 1:34:52 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 3/1/2023 2:39:53 PM  |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 3/1/2023 2:39:53 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 3/1/2023 2:39:53 PM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 3/1/2023 2:39:53 PM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 3/1/2023 2:39:53 PM  |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 3/1/2023 2:39:53 PM  |
| Surr: 4-Bromofluorobenzene                       | 93.2   | 70-130   |      | %Rec  | 1  | 3/1/2023 2:39:53 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/28/2023 3:20:48 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-15 4'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 8:10:00 AM

Lab ID: 2302A66-006

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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  | 2/28/2023 1:47:53 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/28/2023 1:47:53 AM |
| Surr: DNOP                                       | 100    | 69-147   |      | %Rec  | 1  | 2/28/2023 1:47:53 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 3/1/2023 3:03:13 PM  |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 3/1/2023 3:03:13 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/1/2023 3:03:13 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 3/1/2023 3:03:13 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 3/1/2023 3:03:13 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 3/1/2023 3:03:13 PM  |
| Surr: 4-Bromofluorobenzene                       | 94.0   | 70-130   |      | %Rec  | 1  | 3/1/2023 3:03:13 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/28/2023 3:33:12 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. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

Page 6 of 34

## Analytical Report

Lab Order 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-16 0'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 8:15:00 AM

Lab ID: 2302A66-007

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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 2:00:38 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/28/2023 2:00:38 AM |
| Surr: DNOP                                       | 98.8   | 69-147   |      | %Rec  | 1  | 2/28/2023 2:00:38 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 3/1/2023 3:50:02 PM  |
| Surr: BFB                                        | 104    | 37.7-212 |      | %Rec  | 1  | 3/1/2023 3:50:02 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 3/1/2023 3:50:02 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 3/1/2023 3:50:02 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 3/1/2023 3:50:02 PM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 3/1/2023 3:50:02 PM  |
| Surr: 4-Bromofluorobenzene                       | 95.0   | 70-130   |      | %Rec  | 1  | 3/1/2023 3:50:02 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>  |
| Chloride                                         | 130    | 60       |      | mg/Kg | 20 | 2/28/2023 3:45:36 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. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

Page 7 of 34

## Analytical Report

Lab Order 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-16 2'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 8:20:00 AM

Lab ID: 2302A66-008

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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  | 2/28/2023 2:13:22 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/28/2023 2:13:22 AM |
| Surr: DNOP                                       | 96.2   | 69-147   |      | %Rec  | 1  | 2/28/2023 2:13:22 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 3/1/2023 4:13:40 PM  |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 3/1/2023 4:13:40 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/1/2023 4:13:40 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 3/1/2023 4:13:40 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 3/1/2023 4:13:40 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 3/1/2023 4:13:40 PM  |
| Surr: 4-Bromofluorobenzene                       | 92.4   | 70-130   |      | %Rec  | 1  | 3/1/2023 4:13:40 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/28/2023 3:58:01 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-16 4'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 8:25:00 AM

Lab ID: 2302A66-009

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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)                      | 21     | 9.3      |      | mg/Kg | 1  | 2/28/2023 2:26:08 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/28/2023 2:26:08 AM  |
| Surr: DNOP                                       | 101    | 69-147   |      | %Rec  | 1  | 2/28/2023 2:26:08 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 3/1/2023 4:37:14 PM   |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 3/1/2023 4:37:14 PM   |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 3/1/2023 4:37:14 PM   |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 3/1/2023 4:37:14 PM   |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 3/1/2023 4:37:14 PM   |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 3/1/2023 4:37:14 PM   |
| Surr: 4-Bromofluorobenzene                       | 91.4   | 70-130   |      | %Rec  | 1  | 3/1/2023 4:37:14 PM   |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 2/28/2023 10:10:16 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-17 0'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 8:30:00 AM

Lab ID: 2302A66-010

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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  | 2/28/2023 2:38:44 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/28/2023 2:38:44 AM  |
| Surr: DNOP                                       | 102    | 69-147   |      | %Rec  | 1  | 2/28/2023 2:38:44 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 3/1/2023 5:00:53 PM   |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 3/1/2023 5:00:53 PM   |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 3/1/2023 5:00:53 PM   |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 3/1/2023 5:00:53 PM   |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 3/1/2023 5:00:53 PM   |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 3/1/2023 5:00:53 PM   |
| Surr: 4-Bromofluorobenzene                       | 91.7   | 70-130   |      | %Rec  | 1  | 3/1/2023 5:00:53 PM   |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 1300   | 60       |      | mg/Kg | 20 | 2/28/2023 10:22:40 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-17 2'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 8:35:00 AM

Lab ID: 2302A66-011

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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  | 2/28/2023 2:51:29 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 2/28/2023 2:51:29 AM  |
| Surr: DNOP                                       | 102    | 69-147   |      | %Rec  | 1  | 2/28/2023 2:51:29 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 3/1/2023 5:24:35 PM   |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 3/1/2023 5:24:35 PM   |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/1/2023 5:24:35 PM   |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 3/1/2023 5:24:35 PM   |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 3/1/2023 5:24:35 PM   |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 3/1/2023 5:24:35 PM   |
| Surr: 4-Bromofluorobenzene                       | 92.4   | 70-130   |      | %Rec  | 1  | 3/1/2023 5:24:35 PM   |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>NAI</b>   |
| Chloride                                         | 360    | 60       |      | mg/Kg | 20 | 2/28/2023 10:35:05 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-17 4'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 8:40:00 AM

Lab ID: 2302A66-012

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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 3:04:04 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/28/2023 3:04:04 AM |
| Surr: DNOP                                       | 92.7   | 69-147   |      | %Rec  | 1  | 2/28/2023 3:04:04 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 3/1/2023 5:48:09 PM  |
| Surr: BFB                                        | 104    | 37.7-212 |      | %Rec  | 1  | 3/1/2023 5:48:09 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/1/2023 5:48:09 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 3/1/2023 5:48:09 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 3/1/2023 5:48:09 PM  |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 3/1/2023 5:48:09 PM  |
| Surr: 4-Bromofluorobenzene                       | 94.2   | 70-130   |      | %Rec  | 1  | 3/1/2023 5:48:09 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 330    | 60       |      | mg/Kg | 20 | 2/28/2023 5:12:46 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-18 0'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 8:50:00 AM

Lab ID: 2302A66-013

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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)                      | 15     | 9.0      |      | mg/Kg | 1  | 2/28/2023 3:16:49 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 2/28/2023 3:16:49 AM |
| Surr: DNOP                                       | 99.2   | 69-147   |      | %Rec  | 1  | 2/28/2023 3:16:49 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 3/1/2023 6:11:46 PM  |
| Surr: BFB                                        | 99.4   | 37.7-212 |      | %Rec  | 1  | 3/1/2023 6:11:46 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/1/2023 6:11:46 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 3/1/2023 6:11:46 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 3/1/2023 6:11:46 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 3/1/2023 6:11:46 PM  |
| Surr: 4-Bromofluorobenzene                       | 90.2   | 70-130   |      | %Rec  | 1  | 3/1/2023 6:11:46 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 340    | 60       |      | mg/Kg | 20 | 2/28/2023 5:49:59 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-18 2'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 8:55:00 AM

Lab ID: 2302A66-014

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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  | 2/28/2023 3:29:59 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 2/28/2023 3:29:59 AM |
| Surr: DNOP                                       | 91.9   | 69-147   |      | %Rec  | 1  | 2/28/2023 3:29:59 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 3/1/2023 6:35:22 PM  |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 3/1/2023 6:35:22 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 3/1/2023 6:35:22 PM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 3/1/2023 6:35:22 PM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 3/1/2023 6:35:22 PM  |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 3/1/2023 6:35:22 PM  |
| Surr: 4-Bromofluorobenzene                       | 92.6   | 70-130   |      | %Rec  | 1  | 3/1/2023 6:35:22 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 1100   | 60       |      | mg/Kg | 20 | 2/28/2023 6:52:03 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-18 4'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 9:00:00 AM

Lab ID: 2302A66-015

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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  | 2/28/2023 3:43:20 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 44       |      | mg/Kg | 1  | 2/28/2023 3:43:20 AM |
| Surr: DNOP                                       | 96.6   | 69-147   |      | %Rec  | 1  | 2/28/2023 3:43:20 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 3/1/2023 6:58:53 PM  |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 3/1/2023 6:58:53 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/1/2023 6:58:53 PM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 3/1/2023 6:58:53 PM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 3/1/2023 6:58:53 PM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 3/1/2023 6:58:53 PM  |
| Surr: 4-Bromofluorobenzene                       | 91.8   | 70-130   |      | %Rec  | 1  | 3/1/2023 6:58:53 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 730    | 60       |      | mg/Kg | 20 | 2/28/2023 7:04:28 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-18 6'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 9:05:00 AM

Lab ID: 2302A66-016

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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  | 2/28/2023 3:56:53 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 2/28/2023 3:56:53 AM |
| Surr: DNOP                                       | 99.9   | 69-147   |      | %Rec  | 1  | 2/28/2023 3:56:53 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 3/1/2023 7:22:26 PM  |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 3/1/2023 7:22:26 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/1/2023 7:22:26 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 3/1/2023 7:22:26 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 3/1/2023 7:22:26 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 3/1/2023 7:22:26 PM  |
| Surr: 4-Bromofluorobenzene                       | 92.0   | 70-130   |      | %Rec  | 1  | 3/1/2023 7:22:26 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 350    | 60       |      | mg/Kg | 20 | 2/28/2023 7:16:53 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-18 7'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 9:10:00 AM

Lab ID: 2302A66-017

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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  | 2/27/2023 2:13:39 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 44       |      | mg/Kg | 1  | 2/27/2023 2:13:39 PM |
| Surr: DNOP                                       | 99.2   | 69-147   |      | %Rec  | 1  | 2/27/2023 2:13:39 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 3/3/2023 1:55:13 PM  |
| Surr: BFB                                        | 106    | 37.7-212 |      | %Rec  | 1  | 3/3/2023 1:55:13 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 3/3/2023 1:55:13 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 3/3/2023 1:55:13 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 3/3/2023 1:55:13 PM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 3/3/2023 1:55:13 PM  |
| Surr: 4-Bromofluorobenzene                       | 93.3   | 70-130   |      | %Rec  | 1  | 3/3/2023 1:55:13 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 170    | 60       |      | mg/Kg | 20 | 2/28/2023 7:29:17 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. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

Page 17 of 34

## Analytical Report

Lab Order 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-19 0'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 9:25:00 AM

Lab ID: 2302A66-018

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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 2:54:15 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 2/27/2023 2:54:15 PM |
| Surr: DNOP                                       | 103    | 69-147   |      | %Rec  | 1  | 2/27/2023 2:54:15 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 3/3/2023 2:19:15 PM  |
| Surr: BFB                                        | 106    | 37.7-212 |      | %Rec  | 1  | 3/3/2023 2:19:15 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/3/2023 2:19:15 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 3/3/2023 2:19:15 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 3/3/2023 2:19:15 PM  |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 3/3/2023 2:19:15 PM  |
| Surr: 4-Bromofluorobenzene                       | 93.7   | 70-130   |      | %Rec  | 1  | 3/3/2023 2:19:15 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>  |
| Chloride                                         | 4200   | 150      |      | mg/Kg | 50 | 3/1/2023 10:35:58 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. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

Page 18 of 34

## Analytical Report

Lab Order 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-19 2'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 9:30:00 AM

Lab ID: 2302A66-019

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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 3:07:52 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 2/27/2023 3:07:52 PM |
| Surr: DNOP                                       | 108    | 69-147   |      | %Rec  | 1  | 2/27/2023 3:07:52 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 3/3/2023 2:43:18 PM  |
| Surr: BFB                                        | 106    | 37.7-212 |      | %Rec  | 1  | 3/3/2023 2:43:18 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/3/2023 2:43:18 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 3/3/2023 2:43:18 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 3/3/2023 2:43:18 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 3/3/2023 2:43:18 PM  |
| Surr: 4-Bromofluorobenzene                       | 95.0   | 70-130   |      | %Rec  | 1  | 3/3/2023 2:43:18 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 1000   | 60       |      | mg/Kg | 20 | 2/28/2023 7:54:06 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  | Above Quantitation Range/Estimated Value        |
|                    | H   | Holding times for preparation or analysis exceeded                            | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                                           | P  | 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-19 4'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 9:35:00 AM

Lab ID: 2302A66-020

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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  | 2/27/2023 3:21:23 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 2/27/2023 3:21:23 PM |
| Surr: DNOP                                       | 104    | 69-147   |      | %Rec  | 1  | 2/27/2023 3:21:23 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 3/3/2023 3:06:44 PM  |
| Surr: BFB                                        | 104    | 37.7-212 |      | %Rec  | 1  | 3/3/2023 3:06:44 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/3/2023 3:06:44 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 3/3/2023 3:06:44 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 3/3/2023 3:06:44 PM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 3/3/2023 3:06:44 PM  |
| Surr: 4-Bromofluorobenzene                       | 92.3   | 70-130   |      | %Rec  | 1  | 3/3/2023 3:06:44 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 1500   | 61       |      | mg/Kg | 20 | 2/28/2023 8:06:31 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-19 6'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 9:40:00 AM

Lab ID: 2302A66-021

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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  | 2/27/2023 3:34:54 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 2/27/2023 3:34:54 PM |
| Surr: DNOP                                       | 95.8   | 69-147   |      | %Rec  | 1  | 2/27/2023 3:34:54 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 3/3/2023 3:30:11 PM  |
| Surr: BFB                                        | 105    | 37.7-212 |      | %Rec  | 1  | 3/3/2023 3:30:11 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/3/2023 3:30:11 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 3/3/2023 3:30:11 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 3/3/2023 3:30:11 PM  |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 3/3/2023 3:30:11 PM  |
| Surr: 4-Bromofluorobenzene                       | 94.4   | 70-130   |      | %Rec  | 1  | 3/3/2023 3:30:11 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 1500   | 60       |      | mg/Kg | 20 | 2/28/2023 8:18:55 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-19 7'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 9:45:00 AM

Lab ID: 2302A66-022

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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  | 2/27/2023 3:48:24 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 2/27/2023 3:48:24 PM |
| Surr: DNOP                                       | 95.4   | 69-147   |      | %Rec  | 1  | 2/27/2023 3:48:24 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 3/3/2023 3:53:47 PM  |
| Surr: BFB                                        | 105    | 37.7-212 |      | %Rec  | 1  | 3/3/2023 3:53:47 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 3/3/2023 3:53:47 PM  |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 3/3/2023 3:53:47 PM  |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 3/3/2023 3:53:47 PM  |
| Xylenes, Total                                   | ND     | 0.091    |      | mg/Kg | 1  | 3/3/2023 3:53:47 PM  |
| Surr: 4-Bromofluorobenzene                       | 93.3   | 70-130   |      | %Rec  | 1  | 3/3/2023 3:53:47 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 1800   | 60       |      | mg/Kg | 20 | 2/28/2023 8:31:19 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-20 0'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 9:55:00 AM

Lab ID: 2302A66-023

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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)                      | 110    | 9.4      |      | mg/Kg | 1  | 2/27/2023 4:02:13 PM |
| Motor Oil Range Organics (MRO)                   | 56     | 47       |      | mg/Kg | 1  | 2/27/2023 4:02:13 PM |
| Surr: DNOP                                       | 95.3   | 69-147   |      | %Rec  | 1  | 2/27/2023 4:02:13 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 3/3/2023 4:17:27 PM  |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 3/3/2023 4:17:27 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 3/3/2023 4:17:27 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 3/3/2023 4:17:27 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 3/3/2023 4:17:27 PM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 3/3/2023 4:17:27 PM  |
| Surr: 4-Bromofluorobenzene                       | 90.6   | 70-130   |      | %Rec  | 1  | 3/3/2023 4:17:27 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 410    | 60       |      | mg/Kg | 20 | 2/28/2023 8:43:44 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-20 2'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 10:00:00 AM

Lab ID: 2302A66-024

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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 4:15:59 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/27/2023 4:15:59 PM |
| Surr: DNOP                                       | 95.6   | 69-147   |      | %Rec  | 1  | 2/27/2023 4:15:59 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 3/3/2023 4:41:04 PM  |
| Surr: BFB                                        | 105    | 37.7-212 |      | %Rec  | 1  | 3/3/2023 4:41:04 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/3/2023 4:41:04 PM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 3/3/2023 4:41:04 PM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 3/3/2023 4:41:04 PM  |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 3/3/2023 4:41:04 PM  |
| Surr: 4-Bromofluorobenzene                       | 95.0   | 70-130   |      | %Rec  | 1  | 3/3/2023 4:41:04 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 380    | 60       |      | mg/Kg | 20 | 2/28/2023 9:20:56 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-20 4'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 10:05:00 AM

Lab ID: 2302A66-025

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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 4:29:47 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 2/27/2023 4:29:47 PM |
| Surr: DNOP                                       | 99.0   | 69-147   |      | %Rec  | 1  | 2/27/2023 4:29:47 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 3/3/2023 5:04:48 PM  |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 3/3/2023 5:04:48 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/3/2023 5:04:48 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 3/3/2023 5:04:48 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 3/3/2023 5:04:48 PM  |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 3/3/2023 5:04:48 PM  |
| Surr: 4-Bromofluorobenzene                       | 92.6   | 70-130   |      | %Rec  | 1  | 3/3/2023 5:04:48 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 220    | 60       |      | mg/Kg | 20 | 2/28/2023 9:33:21 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 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-20 6'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 10:10:00 AM

Lab ID: 2302A66-026

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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 4:43:35 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 2/27/2023 4:43:35 PM |
| Surr: DNOP                                       | 97.6   | 69-147   |      | %Rec  | 1  | 2/27/2023 4:43:35 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 3/3/2023 5:28:46 PM  |
| Surr: BFB                                        | 107    | 37.7-212 |      | %Rec  | 1  | 3/3/2023 5:28:46 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/3/2023 5:28:46 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 3/3/2023 5:28:46 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 3/3/2023 5:28:46 PM  |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 3/3/2023 5:28:46 PM  |
| Surr: 4-Bromofluorobenzene                       | 95.0   | 70-130   |      | %Rec  | 1  | 3/3/2023 5:28:46 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 430    | 61       |      | mg/Kg | 20 | 2/28/2023 9:45:46 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. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

Page 26 of 34

## Analytical Report

Lab Order 2302A66

Date Reported: 3/8/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-20 7'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/22/2023 10:15:00 AM

Lab ID: 2302A66-027

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 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 4:57:18 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 2/27/2023 4:57:18 PM |
| Surr: DNOP                                       | 102    | 69-147   |      | %Rec  | 1  | 2/27/2023 4:57:18 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 3/3/2023 6:40:34 PM  |
| Surr: BFB                                        | 105    | 37.7-212 |      | %Rec  | 1  | 3/3/2023 6:40:34 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/3/2023 6:40:34 PM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 3/3/2023 6:40:34 PM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 3/3/2023 6:40:34 PM  |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 3/3/2023 6:40:34 PM  |
| Surr: 4-Bromofluorobenzene                       | 94.1   | 70-130   |      | %Rec  | 1  | 3/3/2023 6:40:34 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | 950    | 60       |      | mg/Kg | 20 | 2/28/2023 9:58:11 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. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

Page 27 of 34

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A66

08-Mar-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 4 Federal 003

|                             |                                 |     |                                           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|-------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Sample ID: <b>MB-73437</b>  | SampType: <b>mblk</b>           |     | TestCode: <b>EPA Method 300.0: Anions</b> |             |                     |          |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>73437</b>          |     | RunNo: <b>94936</b>                       |             |                     |          |           |      |          |      |
| Prep Date: <b>2/28/2023</b> | Analysis Date: <b>2/28/2023</b> |     | SeqNo: <b>3432107</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-73437</b> | SampType: <b>lcs</b>            |     | TestCode: <b>EPA Method 300.0: Anions</b> |             |                     |          |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>73437</b>          |     | RunNo: <b>94936</b>                       |             |                     |          |           |      |          |      |
| Prep Date: <b>2/28/2023</b> | Analysis Date: <b>2/28/2023</b> |     | SeqNo: <b>3432108</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       |      |          |      |

|                             |                                 |     |                                           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|-------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| 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       |      |          |      |

|                             |                                 |     |                                           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|-------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Sample ID: <b>MB-73423</b>  | SampType: <b>mblk</b>           |     | TestCode: <b>EPA Method 300.0: Anions</b> |             |                     |          |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>73423</b>          |     | RunNo: <b>94937</b>                       |             |                     |          |           |      |          |      |
| Prep Date: <b>2/28/2023</b> | Analysis Date: <b>2/28/2023</b> |     | SeqNo: <b>3432208</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-73423</b> | SampType: <b>lcs</b>            |     | TestCode: <b>EPA Method 300.0: Anions</b> |             |                     |          |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>73423</b>          |     | RunNo: <b>94937</b>                       |             |                     |          |           |      |          |      |
| Prep Date: <b>2/28/2023</b> | Analysis Date: <b>2/28/2023</b> |     | SeqNo: <b>3432210</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           | 95.5                | 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#: 2302A66

08-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold 4 Federal 003

| Sample ID: <b>LCS-73377</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |          |                     |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|------|----------|---------------------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73377</b>          |     |           | RunNo: <b>94894</b>                                        |      |          |                     |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>2/27/2023</b> |     |           | SeqNo: <b>3430273</b>                                      |      |          | Units: <b>mg/Kg</b> |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC | LowLimit | HighLimit           | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 36                              | 10  | 50.00     | 0                                                          | 72.8 | 61.9     | 130                 |      |          |      |
| Surr: DNOP                  | 3.9                             |     | 5.000     |                                                            | 79.0 | 69       | 147                 |      |          |      |

| Sample ID: <b>LCS-73378</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |          |                     |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|------|----------|---------------------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73378</b>          |     |           | RunNo: <b>94894</b>                                        |      |          |                     |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>2/27/2023</b> |     |           | SeqNo: <b>3430274</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                                                          | 86.5 | 61.9     | 130                 |      |          |      |
| Surr: DNOP                  | 4.2                             |     | 5.000     |                                                            | 83.2 | 69       | 147                 |      |          |      |

| Sample ID: <b>MB-73377</b>     | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |          |                     |      |          |      |
|--------------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|------|----------|---------------------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>73377</b>          |     |           | RunNo: <b>94894</b>                                        |      |          |                     |      |          |      |
| Prep Date: <b>2/24/2023</b>    | Analysis Date: <b>2/27/2023</b> |     |           | SeqNo: <b>3430279</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                     | 7.9                             |     | 10.00     |                                                            | 79.3 | 69       | 147                 |      |          |      |

| Sample ID: <b>MB-73378</b>     | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |          |                     |      |          |      |
|--------------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|------|----------|---------------------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>73378</b>          |     |           | RunNo: <b>94894</b>                                        |      |          |                     |      |          |      |
| Prep Date: <b>2/24/2023</b>    | Analysis Date: <b>2/27/2023</b> |     |           | SeqNo: <b>3430280</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     |                                                            | 107  | 69       | 147                 |      |          |      |

| Sample ID: <b>2302A66-017AMS</b> | SampType: <b>MS</b>             |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |          |                     |      |          |      |
|----------------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|------|----------|---------------------|------|----------|------|
| Client ID: <b>BH23-18 7'</b>     | Batch ID: <b>73378</b>          |     |           | RunNo: <b>94957</b>                                        |      |          |                     |      |          |      |
| Prep Date: <b>2/24/2023</b>      | Analysis Date: <b>2/27/2023</b> |     |           | SeqNo: <b>3433112</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                              | 9.5 | 47.44     | 0                                                          | 93.4 | 54.2     | 135                 |      |          |      |
| Surr: DNOP                       | 4.6                             |     | 4.744     |                                                            | 97.9 | 69       | 147                 |      |          |      |

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A66

08-Mar-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 4 Federal 003

|                             |                          |                                                     |              |             |      |          |           |      |          |      |
|-----------------------------|--------------------------|-----------------------------------------------------|--------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: 2302A66-017AMSD  | SampType: MSD            | TestCode: EPA Method 8015M/D: Diesel Range Organics |              |             |      |          |           |      |          |      |
| Client ID: BH23-18 7'       | Batch ID: 73378          | RunNo: 94957                                        |              |             |      |          |           |      |          |      |
| Prep Date: 2/24/2023        | Analysis Date: 2/27/2023 | SeqNo: 3433113                                      | Units: mg/Kg |             |      |          |           |      |          |      |
| Analyte                     | Result                   | PQL                                                 | SPK value    | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47                       | 9.9                                                 | 49.41        | 0           | 95.2 | 54.2     | 135       | 6.02 | 29.2     |      |
| Surr: DNOP                  | 4.9                      |                                                     | 4.941        |             | 98.4 | 69       | 147       | 0    | 0        |      |

|                     |                         |                                                     |             |             |      |          |           |      |          |      |
|---------------------|-------------------------|-----------------------------------------------------|-------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: MB-73474 | SampType: MBLK          | TestCode: EPA Method 8015M/D: Diesel Range Organics |             |             |      |          |           |      |          |      |
| Client ID: PBS      | Batch ID: 73474         | RunNo: 94965                                        |             |             |      |          |           |      |          |      |
| Prep Date: 3/2/2023 | Analysis Date: 3/2/2023 | SeqNo: 3434009                                      | Units: %Rec |             |      |          |           |      |          |      |
| 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: LCS-73474 | SampType: LCS           | TestCode: EPA Method 8015M/D: Diesel Range Organics |             |             |      |          |           |      |          |      |
| Client ID: LCSS      | Batch ID: 73474         | RunNo: 94965                                        |             |             |      |          |           |      |          |      |
| Prep Date: 3/2/2023  | Analysis Date: 3/2/2023 | SeqNo: 3434010                                      | Units: %Rec |             |      |          |           |      |          |      |
| 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#: 2302A66

08-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold 4 Federal 003

|                               |                                 |     |           |             |                                                   |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|-------------|---------------------------------------------------|---------------------|-----------|------|----------|------|
| Sample ID: <b>ics-73371</b>   | SampType: <b>LCS</b>            |     |           |             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |           |      |          |      |
| Client ID: <b>LCSS</b>        | Batch ID: <b>73371</b>          |     |           |             | RunNo: <b>94929</b>                               |                     |           |      |          |      |
| Prep Date: <b>2/24/2023</b>   | Analysis Date: <b>2/28/2023</b> |     |           |             | SeqNo: <b>3431929</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           | 96.3                                              | 72.3                | 137       |      |          |      |
| Surr: BFB                     | 2200                            |     | 1000      |             | 217                                               | 37.7                | 212       |      |          | S    |

|                               |                                 |     |           |             |                                                   |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|-------------|---------------------------------------------------|---------------------|-----------|------|----------|------|
| Sample ID: <b>mb-73371</b>    | SampType: <b>MBLK</b>           |     |           |             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |           |      |          |      |
| Client ID: <b>PBS</b>         | Batch ID: <b>73371</b>          |     |           |             | RunNo: <b>94929</b>                               |                     |           |      |          |      |
| Prep Date: <b>2/24/2023</b>   | Analysis Date: <b>2/28/2023</b> |     |           |             | SeqNo: <b>3431930</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>mb-73371</b>    | SampType: <b>MBLK</b>          |     |           |             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |           |      |          |      |
| Client ID: <b>PBS</b>         | Batch ID: <b>73371</b>         |     |           |             | RunNo: <b>94933</b>                               |                     |           |      |          |      |
| Prep Date: <b>2/24/2023</b>   | Analysis Date: <b>3/1/2023</b> |     |           |             | SeqNo: <b>3432056</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>ics-73374</b>   | SampType: <b>LCS</b>           |     |           |             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |           |      |          |      |
| Client ID: <b>LCSS</b>        | Batch ID: <b>73374</b>         |     |           |             | RunNo: <b>95021</b>                               |                     |           |      |          |      |
| Prep Date: <b>2/24/2023</b>   | Analysis Date: <b>3/3/2023</b> |     |           |             | SeqNo: <b>3435872</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           | 91.4                                              | 72.3                | 137       |      |          |      |
| Surr: BFB                     | 2000                           |     | 1000      |             | 197                                               | 37.7                | 212       |      |          |      |

|                               |                                |     |           |             |                                                   |                     |           |      |          |      |
|-------------------------------|--------------------------------|-----|-----------|-------------|---------------------------------------------------|---------------------|-----------|------|----------|------|
| Sample ID: <b>mb-73374</b>    | SampType: <b>MBLK</b>          |     |           |             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |           |      |          |      |
| Client ID: <b>PBS</b>         | Batch ID: <b>73374</b>         |     |           |             | RunNo: <b>95021</b>                               |                     |           |      |          |      |
| Prep Date: <b>2/24/2023</b>   | Analysis Date: <b>3/3/2023</b> |     |           |             | SeqNo: <b>3435873</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      |             | 103                                               | 37.7                | 212       |      |          |      |

|                                  |                                |     |           |             |                                                   |                     |           |      |          |      |
|----------------------------------|--------------------------------|-----|-----------|-------------|---------------------------------------------------|---------------------|-----------|------|----------|------|
| Sample ID: <b>2302a66-017ams</b> | SampType: <b>MS</b>            |     |           |             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |           |      |          |      |
| Client ID: <b>BH23-18 7'</b>     | Batch ID: <b>73374</b>         |     |           |             | RunNo: <b>95021</b>                               |                     |           |      |          |      |
| Prep Date: <b>2/24/2023</b>      | Analysis Date: <b>3/3/2023</b> |     |           |             | SeqNo: <b>3436653</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#: 2302A66  
08-Mar-23

Client: Vertex Resources Services, Inc.  
Project: North Pure Gold 4 Federal 003

|                               |        |                         |           |                                            |      |              |           |      |          |      |
|-------------------------------|--------|-------------------------|-----------|--------------------------------------------|------|--------------|-----------|------|----------|------|
| Sample ID: 2302a66-017ams     |        | SampType: MS            |           | TestCode: EPA Method 8015D: Gasoline Range |      |              |           |      |          |      |
| Client ID: BH23-18 7'         |        | Batch ID: 73374         |           | RunNo: 95021                               |      |              |           |      |          |      |
| Prep Date: 2/24/2023          |        | Analysis Date: 3/3/2023 |           | SeqNo: 3436653                             |      | Units: mg/Kg |           |      |          |      |
| Analyte                       | Result | PQL                     | SPK value | SPK Ref Val                                | %REC | LowLimit     | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22     | 4.9                     | 24.73     | 0                                          | 89.0 | 70           | 130       |      |          |      |
| Surr: BFB                     | 1900   |                         | 989.1     |                                            | 197  | 37.7         | 212       |      |          |      |

|                               |        |                         |           |                                            |      |              |           |       |          |      |
|-------------------------------|--------|-------------------------|-----------|--------------------------------------------|------|--------------|-----------|-------|----------|------|
| Sample ID: 2302a66-017amsd    |        | SampType: MSD           |           | TestCode: EPA Method 8015D: Gasoline Range |      |              |           |       |          |      |
| Client ID: BH23-18 7'         |        | Batch ID: 73374         |           | RunNo: 95021                               |      |              |           |       |          |      |
| Prep Date: 2/24/2023          |        | Analysis Date: 3/3/2023 |           | SeqNo: 3436654                             |      | Units: mg/Kg |           |       |          |      |
| Analyte                       | Result | PQL                     | SPK value | SPK Ref Val                                | %REC | LowLimit     | HighLimit | %RPD  | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22     | 4.9                     | 24.56     | 0                                          | 89.2 | 70           | 130       | 0.376 | 20       |      |
| Surr: BFB                     | 1900   |                         | 982.3     |                                            | 195  | 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

Page 32 of 34

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

WO#: 2302A66

08-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold 4 Federal 003

| Sample ID: <b>LCS-73371</b> | SampType: <b>LCS</b>           |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73371</b>         |       | RunNo: <b>94933</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>3/1/2023</b> |       | SeqNo: <b>3432053</b>                        |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                         | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.88                           | 0.025 | 1.000                                        | 0           | 87.5                | 80       | 120       |      |          |      |
| Toluene                     | 0.92                           | 0.050 | 1.000                                        | 0           | 91.6                | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.89                           | 0.050 | 1.000                                        | 0           | 89.3                | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.7                            | 0.10  | 3.000                                        | 0           | 90.3                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.96                           |       | 1.000                                        |             | 95.8                | 70       | 130       |      |          |      |

| Sample ID: <b>mb-73371</b>  | SampType: <b>MBLK</b>          |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>73371</b>         |       | RunNo: <b>94933</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>3/1/2023</b> |       | SeqNo: <b>3432077</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>LCS-73374</b> | SampType: <b>LCS</b>           |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73374</b>         |       | RunNo: <b>95021</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>3/3/2023</b> |       | SeqNo: <b>3435881</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           | 82.1                | 80       | 120       |      |          |      |
| Toluene                     | 0.85                           | 0.050 | 1.000                                        | 0           | 84.9                | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.84                           | 0.050 | 1.000                                        | 0           | 84.1                | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.5                            | 0.10  | 3.000                                        | 0           | 84.4                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.95                           |       | 1.000                                        |             | 94.6                | 70       | 130       |      |          |      |

| Sample ID: <b>mb-73374</b>  | SampType: <b>MBLK</b>          |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>73374</b>         |       | RunNo: <b>95021</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>2/24/2023</b> | Analysis Date: <b>3/3/2023</b> |       | SeqNo: <b>3435882</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                                        |             | 93.1                | 70       | 130       |      |          |      |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical 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#: 2302A66  
08-Mar-23

Client: Vertex Resources Services, Inc.  
Project: North Pure Gold 4 Federal 003

|                            |        |                         |           |             |                                       |          |              |      |          |      |
|----------------------------|--------|-------------------------|-----------|-------------|---------------------------------------|----------|--------------|------|----------|------|
| Sample ID: 2302a66-018ams  |        | SampType: MS            |           |             | TestCode: EPA Method 8021B: Volatiles |          |              |      |          |      |
| Client ID: BH23-19 0'      |        | Batch ID: 73374         |           |             | RunNo: 95021                          |          |              |      |          |      |
| Prep Date: 2/24/2023       |        | Analysis Date: 3/3/2023 |           |             | SeqNo: 3436692                        |          | Units: mg/Kg |      |          |      |
| Analyte                    | Result | PQL                     | SPK value | SPK Ref Val | %REC                                  | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Benzene                    | 0.77   | 0.024                   | 0.9653    | 0           | 79.8                                  | 68.8     | 120          |      |          |      |
| Toluene                    | 0.80   | 0.048                   | 0.9653    | 0.01686     | 81.1                                  | 73.6     | 124          |      |          |      |
| Ethylbenzene               | 0.79   | 0.048                   | 0.9653    | 0           | 82.2                                  | 72.7     | 129          |      |          |      |
| Xylenes, Total             | 2.4    | 0.097                   | 2.896     | 0           | 82.3                                  | 75.7     | 126          |      |          |      |
| Surr: 4-Bromofluorobenzene | 0.91   |                         | 0.9653    |             | 94.2                                  | 70       | 130          |      |          |      |

|                            |        |                         |           |             |                                       |          |              |      |          |      |
|----------------------------|--------|-------------------------|-----------|-------------|---------------------------------------|----------|--------------|------|----------|------|
| Sample ID: 2302a66-018amsd |        | SampType: MSD           |           |             | TestCode: EPA Method 8021B: Volatiles |          |              |      |          |      |
| Client ID: BH23-19 0'      |        | Batch ID: 73374         |           |             | RunNo: 95021                          |          |              |      |          |      |
| Prep Date: 2/24/2023       |        | Analysis Date: 3/3/2023 |           |             | SeqNo: 3436693                        |          | Units: mg/Kg |      |          |      |
| Analyte                    | Result | PQL                     | SPK value | SPK Ref Val | %REC                                  | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Benzene                    | 0.78   | 0.024                   | 0.9671    | 0           | 81.0                                  | 68.8     | 120          | 1.67 | 20       |      |
| Toluene                    | 0.82   | 0.048                   | 0.9671    | 0.01686     | 82.9                                  | 73.6     | 124          | 2.30 | 20       |      |
| Ethylbenzene               | 0.81   | 0.048                   | 0.9671    | 0           | 83.7                                  | 72.7     | 129          | 2.00 | 20       |      |
| Xylenes, Total             | 2.4    | 0.097                   | 2.901     | 0           | 83.0                                  | 75.7     | 126          | 1.08 | 20       |      |
| Surr: 4-Bromofluorobenzene | 0.90   |                         | 0.9671    |             | 92.7                                  | 70       | 130          | 0    | 0        |      |

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 34 of 34



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: 2302A66

RcptNo: 1

Received By: Tracy Casarrubias 2/24/2023 7:28:00 AM

Completed By: Tracy Casarrubias 2/24/2023 8:02:35 AM

Reviewed By: *2/24/23*

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: *2/24/23*

### 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:

### 17. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1         | 3.6                     | Good      | Yes         | Morty   |           |           |
| 2         | 2.4                     | Good      | Yes         | Morty   |           |           |

## 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)

Turn-Around Time:

~~Standard~~ **Rush 5 Day**

Project Name:

**North Pure Gold 4 Federal #003**

Project #:

**22E-02816-06**

Project Manager:

Kent Stallings

[kstallings@vertex.ca](mailto:kstallings@vertex.ca)

Sampler: L. Pullman

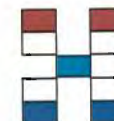
On Ice: ☒ Yes ☐ No **maty**# of Coolers: **2**Cooler Temp (including CF): **3.6 - 0 = 3.6****2.4 - 0 = 2.4**HEAL No. **2302AUG**

Container Type and #

Preservative Type

| Date     | Time | Matrix | Sample Name |
|----------|------|--------|-------------|
| 02/22/23 | 7:40 | Soil   | BH23-14 0'  |
| 02/22/23 | 7:45 | Soil   | BH23-14 2'  |
| 02/22/23 | 7:50 | Soil   | BH23-14 4'  |
| 02/22/23 | 8:00 | Soil   | BH23-15 0'  |
| 02/22/23 | 8:05 | Soil   | BH23-15 2'  |
| 02/22/23 | 8:10 | Soil   | BH23-15 4'  |
| 02/22/23 | 8:15 | Soil   | BH23-16 0'  |
| 02/22/23 | 8:20 | Soil   | BH23-16 2'  |
| 02/22/23 | 8:25 | Soil   | BH23-16 4'  |
| 02/22/23 | 8:30 | Soil   | BH23-17 0'  |
| 02/22/23 | 8:35 | Soil   | BH23-17 2'  |
| 02/22/23 | 8:40 | Soil   | BH23-17 4'  |

|            |     |
|------------|-----|
| 1, 4oz jar | 001 |
| 1, 4oz jar | 002 |
| 1, 4oz jar | 003 |
| 1, 4oz jar | 004 |
| 1, 4oz jar | 005 |
| 1, 4oz jar | 006 |
| 1, 4oz jar | 007 |
| 1, 4oz jar | 008 |
| 1, 4oz jar | 009 |
| 1, 4oz jar | 010 |
| 1, 4oz jar | 011 |
| 1, 4oz jar | 012 |



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

| 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 | C 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                                                                              |            |                 |                                 |  |  |  |  |  |  |  |  |  |  |

Date: **2-23-23** Time: **07:00** Relinquished by: **L. Pullman**

Received by: **Amun** Via: **cc** Date: **2/23/23** Time: **7:00**

Date: **2/23/23** Time: **11:00** Relinquished by: **Amun**

Received by: **Amun** Via: **cc** Date: **2/24/23** Time: **7:28**

## Remarks:

Direct bill to Devon, Dale Woodall  
cc. [kstallings@vertex.ca](mailto:kstallings@vertex.ca) for Final Report

1/3

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.

## 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) \_\_\_\_\_

Turn-Around Time:

☒ Standard ☒ Rush **5 Day**

Project Name:

**North Pure Gold 4 Federal #003**

Project #:

**22E-02816-06**

Project Manager:

Kent Stallings

[kstallings@vertex.ca](mailto:kstallings@vertex.ca)

Sampler: L. Pullman

On Ice: ☒ Yes ☐ No **marty**# of Coolers: **2**Cooler Temp (including CF): **3.6 - 8 = 3.6 °C****2.4 - 8 = 2.4 °C**Container Type and #  
Preservative Type  
HEAL No.  
**2302A66**

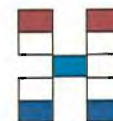
| Date     | Time  | Matrix | Sample Name |
|----------|-------|--------|-------------|
| 02/22/23 | 8:50  | Soil   | BH23-18 0'  |
| 02/22/23 | 8:55  | Soil   | BH23-18 2'  |
| 02/22/23 | 9:00  | Soil   | BH23-18 4'  |
| 02/22/23 | 9:05  | Soil   | BH23-18 6'  |
| 02/22/23 | 9:10  | Soil   | BH23-18 7'  |
| 02/22/23 | 9:25  | Soil   | BH23-19 0'  |
| 02/22/23 | 9:30  | Soil   | BH23-19 2'  |
| 02/22/23 | 9:35  | Soil   | BH23-19 4'  |
| 02/22/23 | 9:40  | Soil   | BH23-19 6'  |
| 02/22/23 | 9:45  | Soil   | BH23-19 7'  |
| 02/22/23 | 9:55  | Soil   | BH23-20 0'  |
| 02/22/23 | 10:00 | Soil   | BH23-20 2'  |

Date: **2/23/23** Time: **07:00** Relinquished by: **[Signature]**

Date: **2/23/23** Time: **19:00** Relinquished by: **[Signature]**

Received by: **[Signature]** Via: **[Signature]** Date: **2/23/23** Time: **7:00**

Received by: **[Signature]** Via: **[Signature]** Date: **2/24/23** Time: **7:29**



# HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

| 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 <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> | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------|-------------------------------------|----------------------------|--------------------|--------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------|---------------------------------|--|--|--|--|--|--|--|--|--|--|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                            |                    |                          |               | <input checked="" type="checkbox"/>                                                                                                                           |            |                 |                                 |  |  |  |  |  |  |  |  |  |  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                            |                    |                          |               | <input checked="" type="checkbox"/>                                                                                                                           |            |                 |                                 |  |  |  |  |  |  |  |  |  |  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                            |                    |                          |               | <input checked="" type="checkbox"/>                                                                                                                           |            |                 |                                 |  |  |  |  |  |  |  |  |  |  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                            |                    |                          |               | <input checked="" type="checkbox"/>                                                                                                                           |            |                 |                                 |  |  |  |  |  |  |  |  |  |  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                            |                    |                          |               | <input checked="" type="checkbox"/>                                                                                                                           |            |                 |                                 |  |  |  |  |  |  |  |  |  |  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                            |                    |                          |               | <input checked="" type="checkbox"/>                                                                                                                           |            |                 |                                 |  |  |  |  |  |  |  |  |  |  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                            |                    |                          |               | <input checked="" type="checkbox"/>                                                                                                                           |            |                 |                                 |  |  |  |  |  |  |  |  |  |  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                            |                    |                          |               | <input checked="" type="checkbox"/>                                                                                                                           |            |                 |                                 |  |  |  |  |  |  |  |  |  |  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                            |                    |                          |               | <input checked="" type="checkbox"/>                                                                                                                           |            |                 |                                 |  |  |  |  |  |  |  |  |  |  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                            |                    |                          |               | <input checked="" type="checkbox"/>                                                                                                                           |            |                 |                                 |  |  |  |  |  |  |  |  |  |  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                            |                    |                          |               | <input checked="" type="checkbox"/>                                                                                                                           |            |                 |                                 |  |  |  |  |  |  |  |  |  |  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                            |                    |                          |               | <input checked="" type="checkbox"/>                                                                                                                           |            |                 |                                 |  |  |  |  |  |  |  |  |  |  |

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 notated on the analytical report.

Chain-of-Custody Record

Client: **Vertex**

---

(direct bill to Devon)

---

Mailing Address:

---

---

Phone #:

---

email or Fax#:

---

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

---

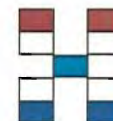
Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other \_\_\_\_\_

---

☐ EDD (Type) \_\_\_\_\_

|                                                                |                                                                                  |
|----------------------------------------------------------------|----------------------------------------------------------------------------------|
| Turn-Around Time:                                              |                                                                                  |
| <input checked="" type="checkbox"/> Standard                   | <input checked="" type="checkbox"/> Rush <u>5 Day</u>                            |
| Project Name:                                                  |                                                                                  |
| North Pure Gold 4 Federal #003                                 |                                                                                  |
| Project #:                                                     |                                                                                  |
| 22E-02816-06                                                   |                                                                                  |
| Project Manager:                                               |                                                                                  |
| Kent Stallings                                                 |                                                                                  |
| <a href="mailto:kstallings@vertex.ca">kstallings@vertex.ca</a> |                                                                                  |
| Sampler:                                                       | L. Pullman                                                                       |
| On Ice:                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>maxty</i> |
| # of Coolers:                                                  | 2                                                                                |



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

| Date          | Time        | Matrix                       | Sample Name | Cooler Temp (including CF): |                   | HEAL No.         | BTEX          | MTBE       | TPH:8015D                                                                                   | 8081 Pesticide | EDB (Method) | PAHs by 83 | RCRA 8 Metals | Cl, F, Br, N | 8260 (VOA) | 8270 (Semi-VOCs) | Total Coliform |
|---------------|-------------|------------------------------|-------------|-----------------------------|-------------------|------------------|---------------|------------|---------------------------------------------------------------------------------------------|----------------|--------------|------------|---------------|--------------|------------|------------------|----------------|
|               |             |                              |             | Container Type and #        | Preservative Type |                  |               |            |                                                                                             |                |              |            |               |              |            |                  |                |
| 02/22/23      | 10:05       | Soil                         | BH23-20 4'  | 1, 4oz jar                  |                   | 025              | X             | X          |                                                                                             |                |              |            |               | X            |            |                  |                |
| 02/22/23      | 10:10       | Soil                         | BH23-20 6'  | 1, 4oz jar                  |                   | 026              | X             | X          |                                                                                             |                |              |            |               | X            |            |                  |                |
| 02/22/23      | 10:15       | Soil                         | BH23-20 7'  | 1, 4oz jar                  |                   | 027              | X             | X          |                                                                                             |                |              |            |               | X            |            |                  |                |
|               |             |                              |             |                             |                   |                  |               |            |                                                                                             |                |              |            |               |              |            |                  |                |
|               |             |                              |             |                             |                   |                  |               |            |                                                                                             |                |              |            |               |              |            |                  |                |
|               |             |                              |             |                             |                   |                  |               |            |                                                                                             |                |              |            |               |              |            |                  |                |
|               |             |                              |             |                             |                   |                  |               |            |                                                                                             |                |              |            |               |              |            |                  |                |
|               |             |                              |             |                             |                   |                  |               |            |                                                                                             |                |              |            |               |              |            |                  |                |
|               |             |                              |             |                             |                   |                  |               |            |                                                                                             |                |              |            |               |              |            |                  |                |
|               |             |                              |             |                             |                   |                  |               |            |                                                                                             |                |              |            |               |              |            |                  |                |
|               |             |                              |             |                             |                   |                  |               |            |                                                                                             |                |              |            |               |              |            |                  |                |
|               |             |                              |             |                             |                   |                  |               |            |                                                                                             |                |              |            |               |              |            |                  |                |
|               |             |                              |             |                             |                   |                  |               |            |                                                                                             |                |              |            |               |              |            |                  |                |
|               |             |                              |             |                             |                   |                  |               |            |                                                                                             |                |              |            |               |              |            |                  |                |
| Date: 2-23-23 | Time: 07:00 | Relinquished by: [Signature] |             | Received by: [Signature]    |                   | Via: [Signature] | Date: 2/23/23 | Time: 7:00 | Remarks:<br>Direct bill to Devon, Dale Woodall<br>cc. kstallings@vertex.ca for Final Report |                |              |            |               |              |            |                  |                |
| Date: 2/23/23 | Time: 19:00 | Relinquished by: [Signature] |             | Received by: [Signature]    |                   | Via: [Signature] | Date: 2/24/23 | Time: 7:28 |                                                                                             |                |              |            |               |              |            |                  |                |

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 06, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: North Pure Gold 4 Federal 003

OrderNo.: 2302B06

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/25/2023 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 horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2302B06

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-21 0'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/23/2023 7:45:00 AM

Lab ID: 2302B06-001

Matrix: SOIL

Received Date: 2/25/2023 9:00:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JME          |
| Diesel Range Organics (DRO)                      | ND     | 9.0      |      | mg/Kg | 1  | 3/1/2023 2:52:38 PM   |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 3/1/2023 2:52:38 PM   |
| Surr: DNOP                                       | 112    | 69-147   |      | %Rec  | 1  | 3/1/2023 2:52:38 PM   |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: JJP          |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 3/2/2023 6:21:39 AM   |
| Surr: BFB                                        | 100    | 37.7-212 |      | %Rec  | 1  | 3/2/2023 6:21:39 AM   |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: JJP          |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/2/2023 6:21:39 AM   |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 3/2/2023 6:21:39 AM   |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 3/2/2023 6:21:39 AM   |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 3/2/2023 6:21:39 AM   |
| Surr: 4-Bromofluorobenzene                       | 93.1   | 70-130   |      | %Rec  | 1  | 3/2/2023 6:21:39 AM   |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: NAI          |
| Chloride                                         | 230    | 60       |      | mg/Kg | 20 | 2/28/2023 10:47:29 PM |

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

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

Page 1 of 14

## Analytical Report

Lab Order 2302B06

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-21 2'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/23/2023 7:50:00 AM

Lab ID: 2302B06-002

Matrix: SOIL

Received Date: 2/25/2023 9:00:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JME          |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 3/1/2023 3:03:19 PM   |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 3/1/2023 3:03:19 PM   |
| Surr: DNOP                                       | 117    | 69-147   |      | %Rec  | 1  | 3/1/2023 3:03:19 PM   |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: JJP          |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 3/2/2023 6:45:07 AM   |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 3/2/2023 6:45:07 AM   |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: JJP          |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/2/2023 6:45:07 AM   |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 3/2/2023 6:45:07 AM   |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 3/2/2023 6:45:07 AM   |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 3/2/2023 6:45:07 AM   |
| Surr: 4-Bromofluorobenzene                       | 91.4   | 70-130   |      | %Rec  | 1  | 3/2/2023 6:45:07 AM   |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: NAI          |
| Chloride                                         | 85     | 60       |      | mg/Kg | 20 | 2/28/2023 10:59:53 PM |

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

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

Page 2 of 14

## Analytical Report

Lab Order 2302B06

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-21 4'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/23/2023 7:55:00 AM

Lab ID: 2302B06-003

Matrix: SOIL

Received Date: 2/25/2023 9:00:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JME          |
| Diesel Range Organics (DRO)                      | ND     | 9.3      |      | mg/Kg | 1  | 3/1/2023 3:13:59 PM   |
| Motor Oil Range Organics (MRO)                   | ND     | 46       |      | mg/Kg | 1  | 3/1/2023 3:13:59 PM   |
| Surr: DNOP                                       | 109    | 69-147   |      | %Rec  | 1  | 3/1/2023 3:13:59 PM   |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: JJP          |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 3/2/2023 7:08:35 AM   |
| Surr: BFB                                        | 102    | 37.7-212 |      | %Rec  | 1  | 3/2/2023 7:08:35 AM   |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: JJP          |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/2/2023 7:08:35 AM   |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 3/2/2023 7:08:35 AM   |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 3/2/2023 7:08:35 AM   |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 3/2/2023 7:08:35 AM   |
| Surr: 4-Bromofluorobenzene                       | 91.5   | 70-130   |      | %Rec  | 1  | 3/2/2023 7:08:35 AM   |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: NAI          |
| Chloride                                         | 64     | 60       |      | mg/Kg | 20 | 2/28/2023 11:12:18 PM |

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

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

Page 3 of 14

## Analytical Report

Lab Order 2302B06

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-22 0'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/23/2023 8:05:00 AM

Lab ID: 2302B06-004

Matrix: SOIL

Received Date: 2/25/2023 9:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: JME         |
| Diesel Range Organics (DRO)                      | ND     | 9.3    |      | mg/Kg | 1  | 3/1/2023 3:24:41 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 46     |      | mg/Kg | 1  | 3/1/2023 3:24:41 PM  |
| Surr: DNOP                                       | 114    | 69-147 |      | %Rec  | 1  | 3/1/2023 3:24:41 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: JTT         |
| Chloride                                         | 120    | 60     |      | mg/Kg | 20 | 3/3/2023 5:24:11 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: JR          |
| Benzene                                          | ND     | 0.023  |      | mg/Kg | 1  | 2/28/2023 1:55:17 PM |
| Toluene                                          | ND     | 0.046  |      | mg/Kg | 1  | 2/28/2023 1:55:17 PM |
| Ethylbenzene                                     | ND     | 0.046  |      | mg/Kg | 1  | 2/28/2023 1:55:17 PM |
| Xylenes, Total                                   | ND     | 0.093  |      | mg/Kg | 1  | 2/28/2023 1:55:17 PM |
| Surr: 1,2-Dichloroethane-d4                      | 94.7   | 70-130 |      | %Rec  | 1  | 2/28/2023 1:55:17 PM |
| Surr: 4-Bromofluorobenzene                       | 94.2   | 70-130 |      | %Rec  | 1  | 2/28/2023 1:55:17 PM |
| Surr: Dibromofluoromethane                       | 98.0   | 70-130 |      | %Rec  | 1  | 2/28/2023 1:55:17 PM |
| Surr: Toluene-d8                                 | 98.1   | 70-130 |      | %Rec  | 1  | 2/28/2023 1:55:17 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: JR          |
| Gasoline Range Organics (GRO)                    | ND     | 4.6    |      | mg/Kg | 1  | 2/28/2023 1:55:17 PM |
| Surr: BFB                                        | 101    | 70-130 |      | %Rec  | 1  | 2/28/2023 1:55:17 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 2302B06

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-22 2'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/23/2023 8:10:00 AM

Lab ID: 2302B06-005

Matrix: SOIL

Received Date: 2/25/2023 9:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: JME         |
| Diesel Range Organics (DRO)                      | ND     | 8.3    |      | mg/Kg | 1  | 3/1/2023 3:35:22 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 42     |      | mg/Kg | 1  | 3/1/2023 3:35:22 PM  |
| Surr: DNOP                                       | 131    | 69-147 |      | %Rec  | 1  | 3/1/2023 3:35:22 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: JTT         |
| Chloride                                         | 110    | 60     |      | mg/Kg | 20 | 3/3/2023 6:25:56 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: JR          |
| Benzene                                          | ND     | 0.023  |      | mg/Kg | 1  | 2/28/2023 3:17:25 PM |
| Toluene                                          | ND     | 0.047  |      | mg/Kg | 1  | 2/28/2023 3:17:25 PM |
| Ethylbenzene                                     | ND     | 0.047  |      | mg/Kg | 1  | 2/28/2023 3:17:25 PM |
| Xylenes, Total                                   | ND     | 0.093  |      | mg/Kg | 1  | 2/28/2023 3:17:25 PM |
| Surr: 1,2-Dichloroethane-d4                      | 94.5   | 70-130 |      | %Rec  | 1  | 2/28/2023 3:17:25 PM |
| Surr: 4-Bromofluorobenzene                       | 94.7   | 70-130 |      | %Rec  | 1  | 2/28/2023 3:17:25 PM |
| Surr: Dibromofluoromethane                       | 96.7   | 70-130 |      | %Rec  | 1  | 2/28/2023 3:17:25 PM |
| Surr: Toluene-d8                                 | 94.1   | 70-130 |      | %Rec  | 1  | 2/28/2023 3:17:25 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: JR          |
| Gasoline Range Organics (GRO)                    | ND     | 4.7    |      | mg/Kg | 1  | 2/28/2023 3:17:25 PM |
| Surr: BFB                                        | 100    | 70-130 |      | %Rec  | 1  | 2/28/2023 3:17:25 PM |

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

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

## Analytical Report

Lab Order 2302B06

Date Reported: 3/6/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-22 4'

Project: North Pure Gold 4 Federal 003

Collection Date: 2/23/2023 8:15:00 AM

Lab ID: 2302B06-006

Matrix: SOIL

Received Date: 2/25/2023 9:00:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|--------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: JME         |
| Diesel Range Organics (DRO)                      | ND     | 9.5    |      | mg/Kg | 1  | 3/1/2023 3:46:04 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48     |      | mg/Kg | 1  | 3/1/2023 3:46:04 PM  |
| Surr: DNOP                                       | 98.3   | 69-147 |      | %Rec  | 1  | 3/1/2023 3:46:04 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: JTT         |
| Chloride                                         | 73     | 60     |      | mg/Kg | 20 | 3/3/2023 6:38:16 PM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    | Analyst: JR          |
| Benzene                                          | ND     | 0.025  |      | mg/Kg | 1  | 2/28/2023 3:44:40 PM |
| Toluene                                          | ND     | 0.050  |      | mg/Kg | 1  | 2/28/2023 3:44:40 PM |
| Ethylbenzene                                     | ND     | 0.050  |      | mg/Kg | 1  | 2/28/2023 3:44:40 PM |
| Xylenes, Total                                   | ND     | 0.10   |      | mg/Kg | 1  | 2/28/2023 3:44:40 PM |
| Surr: 1,2-Dichloroethane-d4                      | 104    | 70-130 |      | %Rec  | 1  | 2/28/2023 3:44:40 PM |
| Surr: 4-Bromofluorobenzene                       | 97.1   | 70-130 |      | %Rec  | 1  | 2/28/2023 3:44:40 PM |
| Surr: Dibromofluoromethane                       | 98.0   | 70-130 |      | %Rec  | 1  | 2/28/2023 3:44:40 PM |
| Surr: Toluene-d8                                 | 97.8   | 70-130 |      | %Rec  | 1  | 2/28/2023 3:44:40 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    | Analyst: JR          |
| Gasoline Range Organics (GRO)                    | ND     | 5.0    |      | mg/Kg | 1  | 2/28/2023 3:44:40 PM |
| Surr: BFB                                        | 104    | 70-130 |      | %Rec  | 1  | 2/28/2023 3:44:40 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. |    |                                                 |
|             |     |                                                                               |    |                                                 |

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

WO#: 2302B06

06-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold 4 Federal 003

| Sample ID: <b>MB-73423</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>73423</b>          | RunNo: <b>94937</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>2/28/2023</b> | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3432208</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-73423</b> | SampType: <b>lcs</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73423</b>          | RunNo: <b>94937</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>2/28/2023</b> | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3432210</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           | 95.5 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-73511</b> | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|----------------------------|--------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>      | Batch ID: <b>73511</b>         | RunNo: <b>95029</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>3/3/2023</b> | Analysis Date: <b>3/3/2023</b> | SeqNo: <b>3436153</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-73511</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73511</b>         | RunNo: <b>95029</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>3/3/2023</b>  | Analysis Date: <b>3/3/2023</b> | SeqNo: <b>3436154</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           | 93.1 | 90       | 110       |      |          |      |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of standard limits. If undiluted results may be estimated.

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

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

WO#: 2302B06

06-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold 4 Federal 003

|                             |                                |     |           |                                                            |      |                     |           |      |          |      |
|-----------------------------|--------------------------------|-----|-----------|------------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>LCS-73421</b> | SampType: <b>LCS</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                     |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>73421</b>         |     |           | RunNo: <b>94952</b>                                        |      |                     |           |      |          |      |
| Prep Date: <b>2/28/2023</b> | Analysis Date: <b>3/1/2023</b> |     |           | SeqNo: <b>3432996</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                             | 10  | 50.00     | 0                                                          | 81.2 | 61.9                | 130       |      |          |      |
| Surr: DNOP                  | 4.5                            |     | 5.000     |                                                            | 90.0 | 69                  | 147       |      |          |      |

|                                |                                |     |           |                                                            |      |                     |           |      |          |      |
|--------------------------------|--------------------------------|-----|-----------|------------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>MB-73421</b>     | SampType: <b>MBLK</b>          |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                     |           |      |          |      |
| Client ID: <b>PBS</b>          | Batch ID: <b>73421</b>         |     |           | RunNo: <b>94952</b>                                        |      |                     |           |      |          |      |
| Prep Date: <b>2/28/2023</b>    | Analysis Date: <b>3/1/2023</b> |     |           | SeqNo: <b>3432998</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>MB-73436</b>  | SampType: <b>MBLK</b>          |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                    |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>73436</b>         |     |           | RunNo: <b>94952</b>                                        |      |                    |           |      |          |      |
| Prep Date: <b>2/28/2023</b> | Analysis Date: <b>3/1/2023</b> |     |           | SeqNo: <b>3433068</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     |                                                            | 92.3 | 69                 | 147       |      |          |      |

|                             |                                |     |           |                                                            |      |                    |           |      |          |      |
|-----------------------------|--------------------------------|-----|-----------|------------------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID: <b>LCS-73436</b> | SampType: <b>LCS</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                    |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>73436</b>         |     |           | RunNo: <b>94952</b>                                        |      |                    |           |      |          |      |
| Prep Date: <b>2/28/2023</b> | Analysis Date: <b>3/1/2023</b> |     |           | SeqNo: <b>3433069</b>                                      |      | Units: <b>%Rec</b> |           |      |          |      |
| Analyte                     | Result                         | PQL | SPK value | SPK Ref Val                                                | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 4.6                            |     | 5.000     |                                                            | 92.6 | 69                 | 147       |      |          |      |

|                            |                                |     |           |                                                            |      |                    |           |      |          |      |
|----------------------------|--------------------------------|-----|-----------|------------------------------------------------------------|------|--------------------|-----------|------|----------|------|
| 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#: 2302B06  
06-Mar-23

Client: Vertex Resources Services, Inc.  
Project: North Pure Gold 4 Federal 003

|                     |                         |                                                     |           |             |      |          |           |      |          |      |
|---------------------|-------------------------|-----------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: MB-73456 | SampType: MBLK          | TestCode: EPA Method 8015M/D: Diesel Range Organics |           |             |      |          |           |      |          |      |
| Client ID: PBS      | Batch ID: 73456         | RunNo: 94965                                        |           |             |      |          |           |      |          |      |
| Prep Date: 3/1/2023 | Analysis Date: 3/2/2023 | SeqNo: 3434451                                      |           | Units: %Rec |      |          |           |      |          |      |
| Analyte             | Result                  | PQL                                                 | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP          | 11                      |                                                     | 10.00     |             | 113  | 69       | 147       |      |          |      |

|                      |                         |                                                     |           |             |      |          |           |      |          |      |
|----------------------|-------------------------|-----------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-73456 | SampType: LCS           | TestCode: EPA Method 8015M/D: Diesel Range Organics |           |             |      |          |           |      |          |      |
| Client ID: LCSS      | Batch ID: 73456         | RunNo: 94965                                        |           |             |      |          |           |      |          |      |
| Prep Date: 3/1/2023  | Analysis Date: 3/2/2023 | SeqNo: 3434452                                      |           | Units: %Rec |      |          |           |      |          |      |
| 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#: 2302B06  
06-Mar-23

Client: Vertex Resources Services, Inc.  
Project: North Pure Gold 4 Federal 003

|                               |                         |     |           |                                            |      |              |           |      |          |      |
|-------------------------------|-------------------------|-----|-----------|--------------------------------------------|------|--------------|-----------|------|----------|------|
| Sample ID: lcs-73396          | SampType: LCS           |     |           | TestCode: EPA Method 8015D: Gasoline Range |      |              |           |      |          |      |
| Client ID: LCSS               | Batch ID: 73396         |     |           | RunNo: 94933                               |      |              |           |      |          |      |
| Prep Date: 2/27/2023          | Analysis Date: 3/1/2023 |     |           | SeqNo: 3433434                             |      | Units: mg/Kg |           |      |          |      |
| Analyte                       | Result                  | PQL | SPK value | SPK Ref Val                                | %REC | LowLimit     | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22                      | 5.0 | 25.00     | 0                                          | 87.8 | 72.3         | 137       |      |          |      |
| Surr: BFB                     | 1900                    |     | 1000      |                                            | 193  | 37.7         | 212       |      |          |      |

|                               |                         |     |           |                                            |      |              |           |      |          |      |
|-------------------------------|-------------------------|-----|-----------|--------------------------------------------|------|--------------|-----------|------|----------|------|
| Sample ID: mb-73396           | SampType: MBLK          |     |           | TestCode: EPA Method 8015D: Gasoline Range |      |              |           |      |          |      |
| Client ID: PBS                | Batch ID: 73396         |     |           | RunNo: 94933                               |      |              |           |      |          |      |
| Prep Date: 2/27/2023          | Analysis Date: 3/1/2023 |     |           | SeqNo: 3433435                             |      | Units: mg/Kg |           |      |          |      |
| Analyte                       | Result                  | PQL | SPK value | SPK Ref Val                                | %REC | LowLimit     | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                      | 5.0 |           |                                            |      |              |           |      |          |      |
| Surr: BFB                     | 1000                    |     | 1000      |                                            | 102  | 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#: 2302B06

06-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold 4 Federal 003

|                             |                                |       |           |                                              |      |                     |           |      |          |      |
|-----------------------------|--------------------------------|-------|-----------|----------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>LCS-73396</b> | SampType: <b>LCS</b>           |       |           | TestCode: <b>EPA Method 8021B: Volatiles</b> |      |                     |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>73396</b>         |       |           | RunNo: <b>94933</b>                          |      |                     |           |      |          |      |
| Prep Date: <b>2/27/2023</b> | Analysis Date: <b>3/1/2023</b> |       |           | SeqNo: <b>3433469</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                                            | 83.5 | 80                  | 120       |      |          |      |
| Toluene                     | 0.87                           | 0.050 | 1.000     | 0                                            | 87.0 | 80                  | 120       |      |          |      |
| Ethylbenzene                | 0.86                           | 0.050 | 1.000     | 0                                            | 85.8 | 80                  | 120       |      |          |      |
| Xylenes, Total              | 2.6                            | 0.10  | 3.000     | 0                                            | 86.2 | 80                  | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.94                           |       | 1.000     |                                              | 94.2 | 70                  | 130       |      |          |      |

|                             |                                |       |           |                                              |      |                     |           |      |          |      |
|-----------------------------|--------------------------------|-------|-----------|----------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>mb-73396</b>  | SampType: <b>MBLK</b>          |       |           | TestCode: <b>EPA Method 8021B: Volatiles</b> |      |                     |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>73396</b>         |       |           | RunNo: <b>94933</b>                          |      |                     |           |      |          |      |
| Prep Date: <b>2/27/2023</b> | Analysis Date: <b>3/1/2023</b> |       |           | SeqNo: <b>3433470</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     |                                              | 91.9 | 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#: 2302B06

06-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold 4 Federal 003

| Sample ID: <b>2302b06-004ams</b> | SampType: <b>MS4</b>            | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |           |             |                     |          |           |      |          |      |
|----------------------------------|---------------------------------|---------------------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BH23-22 0'</b>     | Batch ID: <b>73404</b>          | RunNo: <b>94927</b>                                     |           |             |                     |          |           |      |          |      |
| Prep Date: <b>2/27/2023</b>      | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3431732</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                                                   | 0.9294    | 0           | 99.1                | 75.8     | 123       |      |          |      |
| Toluene                          | 1.0                             | 0.046                                                   | 0.9294    | 0           | 111                 | 68.3     | 130       |      |          |      |
| Ethylbenzene                     | 1.1                             | 0.046                                                   | 0.9294    | 0           | 114                 | 76.6     | 132       |      |          |      |
| Xylenes, Total                   | 3.2                             | 0.093                                                   | 2.788     | 0           | 114                 | 74.7     | 132       |      |          |      |
| Surr: 1,2-Dichloroethane-d4      | 0.45                            |                                                         | 0.4647    |             | 97.4                | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.44                            |                                                         | 0.4647    |             | 94.8                | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane       | 0.45                            |                                                         | 0.4647    |             | 96.2                | 70       | 130       |      |          |      |
| Surr: Toluene-d8                 | 0.45                            |                                                         | 0.4647    |             | 96.3                | 70       | 130       |      |          |      |

| Sample ID: <b>2302b06-004amsd</b> | SampType: <b>MSD4</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |           |             |                     |          |           |      |          |      |
|-----------------------------------|---------------------------------|---------------------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BH23-22 0'</b>      | Batch ID: <b>73404</b>          | RunNo: <b>94927</b>                                     |           |             |                     |          |           |      |          |      |
| Prep Date: <b>2/27/2023</b>       | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3431733</b>                                   |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                     | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                           | 0.93                            | 0.023                                                   | 0.9285    | 0           | 100                 | 75.8     | 123       | 1.06 | 20       |      |
| Toluene                           | 1.1                             | 0.046                                                   | 0.9285    | 0           | 116                 | 68.3     | 130       | 4.26 | 20       |      |
| Ethylbenzene                      | 1.1                             | 0.046                                                   | 0.9285    | 0           | 119                 | 76.6     | 132       | 4.60 | 20       |      |
| Xylenes, Total                    | 3.3                             | 0.093                                                   | 2.786     | 0           | 119                 | 74.7     | 132       | 3.81 | 20       |      |
| Surr: 1,2-Dichloroethane-d4       | 0.46                            |                                                         | 0.4643    |             | 99.4                | 70       | 130       | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene        | 0.44                            |                                                         | 0.4643    |             | 94.3                | 70       | 130       | 0    | 0        |      |
| Surr: Dibromofluoromethane        | 0.47                            |                                                         | 0.4643    |             | 102                 | 70       | 130       | 0    | 0        |      |
| Surr: Toluene-d8                  | 0.45                            |                                                         | 0.4643    |             | 96.9                | 70       | 130       | 0    | 0        |      |

| Sample ID: <b>Ics-73404</b> | SampType: <b>LCS4</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>   | Batch ID: <b>73404</b>          | RunNo: <b>94927</b>                                     |           |             |                     |          |           |      |          |      |
| Prep Date: <b>2/27/2023</b> | Analysis Date: <b>2/28/2023</b> | SeqNo: <b>3431736</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           | 82.0                | 80       | 120       |      |          |      |
| Toluene                     | 0.94                            | 0.050                                                   | 1.000     | 0           | 94.0                | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.96                            | 0.050                                                   | 1.000     | 0           | 96.3                | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.9                             | 0.10                                                    | 3.000     | 0           | 95.1                | 80       | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 0.47                            |                                                         | 0.5000    |             | 94.1                | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.47                            |                                                         | 0.5000    |             | 94.5                | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.48                            |                                                         | 0.5000    |             | 95.3                | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.50                            |                                                         | 0.5000    |             | 99.6                | 70       | 130       |      |          |      |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical 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#: 2302B06

06-Mar-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 4 Federal 003

|                             |        |                          |           |                                                  |      |              |           |      |          |      |
|-----------------------------|--------|--------------------------|-----------|--------------------------------------------------|------|--------------|-----------|------|----------|------|
| Sample ID: mb-73404         |        | SampType: MBLK           |           | TestCode: EPA Method 8260B: Volatiles Short List |      |              |           |      |          |      |
| Client ID: PBS              |        | Batch ID: 73404          |           | RunNo: 94927                                     |      |              |           |      |          |      |
| Prep Date: 2/27/2023        |        | Analysis Date: 2/28/2023 |           | SeqNo: 3431737                                   |      | Units: mg/Kg |           |      |          |      |
| Analyte                     | Result | PQL                      | SPK value | SPK Ref Val                                      | %REC | LowLimit     | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND     | 0.025                    |           |                                                  |      |              |           |      |          |      |
| Toluene                     | ND     | 0.050                    |           |                                                  |      |              |           |      |          |      |
| Ethylbenzene                | ND     | 0.050                    |           |                                                  |      |              |           |      |          |      |
| Xylenes, Total              | ND     | 0.10                     |           |                                                  |      |              |           |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 0.48   |                          | 0.5000    |                                                  | 95.1 | 70           | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.50   |                          | 0.5000    |                                                  | 100  | 70           | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.49   |                          | 0.5000    |                                                  | 97.1 | 70           | 130       |      |          |      |
| Surr: Toluene-d8            | 0.49   |                          | 0.5000    |                                                  | 98.7 | 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#: 2302B06  
06-Mar-23

Client: Vertex Resources Services, Inc.  
Project: North Pure Gold 4 Federal 003

|                               |                          |     |           |                                                |      |              |           |      |          |      |
|-------------------------------|--------------------------|-----|-----------|------------------------------------------------|------|--------------|-----------|------|----------|------|
| Sample ID: lcs-73404          | SampType: LCS            |     |           | TestCode: EPA Method 8015D Mod: Gasoline Range |      |              |           |      |          |      |
| Client ID: LCSS               | Batch ID: 73404          |     |           | RunNo: 94927                                   |      |              |           |      |          |      |
| Prep Date: 2/27/2023          | Analysis Date: 2/28/2023 |     |           | SeqNo: 3431792                                 |      | Units: mg/Kg |           |      |          |      |
| Analyte                       | Result                   | PQL | SPK value | SPK Ref Val                                    | %REC | LowLimit     | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 20                       | 5.0 | 25.00     | 0                                              | 78.4 | 70           | 130       |      |          |      |
| Surr: BFB                     | 500                      |     | 500.0     |                                                | 99.4 | 70           | 130       |      |          |      |

|                               |                          |     |           |                                                |      |              |           |      |          |      |
|-------------------------------|--------------------------|-----|-----------|------------------------------------------------|------|--------------|-----------|------|----------|------|
| Sample ID: mb-73404           | SampType: MBLK           |     |           | TestCode: EPA Method 8015D Mod: Gasoline Range |      |              |           |      |          |      |
| Client ID: PBS                | Batch ID: 73404          |     |           | RunNo: 94927                                   |      |              |           |      |          |      |
| Prep Date: 2/27/2023          | Analysis Date: 2/28/2023 |     |           | SeqNo: 3431793                                 |      | Units: mg/Kg |           |      |          |      |
| Analyte                       | Result                   | PQL | SPK value | SPK Ref Val                                    | %REC | LowLimit     | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                       | 5.0 |           |                                                |      |              |           |      |          |      |
| Surr: BFB                     | 530                      |     | 500.0     |                                                | 105  | 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: 2302B06

RcptNo: 1

Received By: Tracy Casarrubias 2/25/2023 9:00:00 AM

Completed By: Tracy Casarrubias 2/25/2023 10:42:48 AM

Reviewed By: DAD 2/27/23

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: TML 2/25/23

### 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:

### 17. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1         | 2.1                     | Good      | Yes         | Yogi    |           |           |

# HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

[illegible]

Remarks:  
Direct bill to Devon, Dale Woodall  
cc. kstallings@vertex.ca for Final Report

**Released to Imaging: 11/4/2025 11:46:58 AM**



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 30, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: North Pure Gold 4 Federal 003

OrderNo.: 2303D14

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/28/2023 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 horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2303D14

Date Reported: 3/30/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-19 8'

Project: North Pure Gold 4 Federal 003

Collection Date: 3/24/2023 1:20:00 PM

Lab ID: 2303D14-001

Matrix: SOIL

Received Date: 3/28/2023 7:55:00 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     | 9.5      |      | mg/Kg | 1  | 3/30/2023 2:40:28 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 3/30/2023 2:40:28 AM  |
| Surr: DNOP                                       | 110    | 69-147   |      | %Rec  | 1  | 3/30/2023 2:40:28 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 3/29/2023 3:21:51 PM  |
| Surr: BFB                                        | 100    | 37.7-212 |      | %Rec  | 1  | 3/29/2023 3:21:51 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 3/29/2023 3:21:51 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 3/29/2023 3:21:51 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 3/29/2023 3:21:51 PM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 3/29/2023 3:21:51 PM  |
| Surr: 4-Bromofluorobenzene                       | 89.4   | 70-130   |      | %Rec  | 1  | 3/29/2023 3:21:51 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>   |
| Chloride                                         | 1100   | 59       |      | mg/Kg | 20 | 3/28/2023 10:27:35 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. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

Page 1 of 7

## Analytical Report

Lab Order 2303D14

Date Reported: 3/30/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-19 10'

Project: North Pure Gold 4 Federal 003

Collection Date: 3/24/2023 1:40:00 PM

Lab ID: 2303D14-002

Matrix: SOIL

Received Date: 3/28/2023 7:55:00 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     | 9.0      |      | mg/Kg | 1  | 3/30/2023 2:51:02 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 3/30/2023 2:51:02 AM  |
| Surr: DNOP                                       | 131    | 69-147   |      | %Rec  | 1  | 3/30/2023 2:51:02 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 3/29/2023 3:45:23 PM  |
| Surr: BFB                                        | 103    | 37.7-212 |      | %Rec  | 1  | 3/29/2023 3:45:23 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/29/2023 3:45:23 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 3/29/2023 3:45:23 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 3/29/2023 3:45:23 PM  |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 3/29/2023 3:45:23 PM  |
| Surr: 4-Bromofluorobenzene                       | 91.6   | 70-130   |      | %Rec  | 1  | 3/29/2023 3:45:23 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>   |
| Chloride                                         | 230    | 60       |      | mg/Kg | 20 | 3/28/2023 11:29:19 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 2303D14

Date Reported: 3/30/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-19 12'

Project: North Pure Gold 4 Federal 003

Collection Date: 3/24/2023 2:05:00 PM

Lab ID: 2303D14-003

Matrix: SOIL

Received Date: 3/28/2023 7:55:00 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     | 10       |      | mg/Kg | 1  | 3/30/2023 3:12:02 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 3/30/2023 3:12:02 AM  |
| Surr: DNOP                                       | 123    | 69-147   |      | %Rec  | 1  | 3/30/2023 3:12:02 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 3/29/2023 4:08:50 PM  |
| Surr: BFB                                        | 101    | 37.7-212 |      | %Rec  | 1  | 3/29/2023 4:08:50 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>JJP</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 3/29/2023 4:08:50 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 3/29/2023 4:08:50 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 3/29/2023 4:08:50 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 3/29/2023 4:08:50 PM  |
| Surr: 4-Bromofluorobenzene                       | 88.8   | 70-130   |      | %Rec  | 1  | 3/29/2023 4:08:50 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>   |
| Chloride                                         | 65     | 60       |      | mg/Kg | 20 | 3/28/2023 11:41:41 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  | Above Quantitation Range/Estimated Value        |
|                    | H   | Holding times for preparation or analysis exceeded                            | J  | Analyte detected below quantitation limits      |
|                    | ND  | Not Detected at the Reporting Limit                                           | P  | Sample pH Not In Range                          |
|                    | PQL | Practical Quantitative Limit                                                  | RL | Reporting Limit                                 |
|                    | S   | % Recovery outside of standard limits. If undiluted results may be estimated. |    |                                                 |
|                    |     |                                                                               |    |                                                 |

Page 3 of 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303D14  
30-Mar-23

Client: Vertex Resources Services, Inc.  
Project: North Pure Gold 4 Federal 003

|                      |        |                          |           |             |                                    |          |              |      |          |      |
|----------------------|--------|--------------------------|-----------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID: MB-73990  |        | SampType: mblk           |           |             | TestCode: EPA Method 300.0: Anions |          |              |      |          |      |
| Client ID: PBS       |        | Batch ID: 73990          |           |             | RunNo: 95609                       |          |              |      |          |      |
| Prep Date: 3/28/2023 |        | Analysis Date: 3/28/2023 |           |             | SeqNo: 3461355                     |          | Units: mg/Kg |      |          |      |
| Analyte              | Result | PQL                      | SPK value | SPK Ref Val | %REC                               | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Chloride             | ND     | 1.5                      |           |             |                                    |          |              |      |          |      |

|                      |        |                          |           |             |                                    |          |              |      |          |      |
|----------------------|--------|--------------------------|-----------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID: LCS-73990 |        | SampType: lcs            |           |             | TestCode: EPA Method 300.0: Anions |          |              |      |          |      |
| Client ID: LCSS      |        | Batch ID: 73990          |           |             | RunNo: 95609                       |          |              |      |          |      |
| Prep Date: 3/28/2023 |        | Analysis Date: 3/28/2023 |           |             | SeqNo: 3461356                     |          | Units: mg/Kg |      |          |      |
| Analyte              | Result | PQL                      | SPK value | SPK Ref Val | %REC                               | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Chloride             | 14     | 1.5                      | 15.00     | 0           | 94.6                               | 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 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#: 2303D14

30-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold 4 Federal 003

| Sample ID: <b>MB-73986</b>     | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
|--------------------------------|---------------------------------|-----|------------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>73986</b>          |     | RunNo: <b>95645</b>                                        |             |                     |          |           |      |          |      |
| Prep Date: <b>3/28/2023</b>    | Analysis Date: <b>3/29/2023</b> |     | SeqNo: <b>3461196</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                                                      |             | 109                 | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-73986</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|------------------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73986</b>          |     | RunNo: <b>95645</b>                                        |             |                     |          |           |      |          |      |
| Prep Date: <b>3/28/2023</b> | Analysis Date: <b>3/29/2023</b> |     | SeqNo: <b>3461197</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                  | 5.9                             |     | 5.000                                                      |             | 119                 | 69       | 147       |      |          |      |

| Sample ID: <b>MB-73987</b>  | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|------------------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>73987</b>          |     | RunNo: <b>95646</b>                                        |             |                    |          |           |      |          |      |
| Prep Date: <b>3/28/2023</b> | Analysis Date: <b>3/29/2023</b> |     | SeqNo: <b>3461648</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                                                      |             | 91.6               | 69       | 147       |      |          |      |

| Sample ID: <b>LCS-73987</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|------------------------------------------------------------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>73987</b>          |     | RunNo: <b>95646</b>                                        |             |                    |          |           |      |          |      |
| Prep Date: <b>3/28/2023</b> | Analysis Date: <b>3/29/2023</b> |     | SeqNo: <b>3461649</b>                                      |             | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value                                                  | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 4.4                             |     | 5.000                                                      |             | 87.3               | 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#: 2303D14

30-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold 4 Federal 003

|                               |                                 |     |           |                                                   |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|---------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>lcs-73975</b>   | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |      |                     |           |      |          |      |
| Client ID: <b>LCSS</b>        | Batch ID: <b>73975</b>          |     |           | RunNo: <b>95642</b>                               |      |                     |           |      |          |      |
| Prep Date: <b>3/28/2023</b>   | Analysis Date: <b>3/29/2023</b> |     |           | SeqNo: <b>3461081</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                                                 | 97.6 | 70                  | 130       |      |          |      |
| Surr: BFB                     | 2000                            |     | 1000      |                                                   | 202  | 37.7                | 212       |      |          |      |

|                               |                                 |     |           |                                                   |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|---------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>mb-73975</b>    | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |      |                     |           |      |          |      |
| Client ID: <b>PBS</b>         | Batch ID: <b>73975</b>          |     |           | RunNo: <b>95642</b>                               |      |                     |           |      |          |      |
| Prep Date: <b>3/28/2023</b>   | Analysis Date: <b>3/29/2023</b> |     |           | SeqNo: <b>3461082</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       |      |          |      |

**Qualifiers:**

\* Value exceeds Maximum Contaminant 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#: 2303D14

30-Mar-23

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold 4 Federal 003

|                             |                                 |       |                                              |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Sample ID: <b>LCS-73975</b> | SampType: <b>LCS</b>            |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>73975</b>          |       | RunNo: <b>95642</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>3/28/2023</b> | Analysis Date: <b>3/29/2023</b> |       | SeqNo: <b>3461088</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           | 91.9                | 80       | 120       |      |          |      |
| Toluene                     | 0.91                            | 0.050 | 1.000                                        | 0           | 91.2                | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.90                            | 0.050 | 1.000                                        | 0           | 90.0                | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.7                             | 0.10  | 3.000                                        | 0           | 89.9                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.94                            |       | 1.000                                        |             | 93.8                | 70       | 130       |      |          |      |

|                             |                                 |       |                                              |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|----------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Sample ID: <b>mb-73975</b>  | SampType: <b>MBLK</b>           |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>73975</b>          |       | RunNo: <b>95642</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>3/28/2023</b> | Analysis Date: <b>3/29/2023</b> |       | SeqNo: <b>3461089</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       |      |          |      |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of standard limits. If undiluted results may be estimated.

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

Page 7 of 7



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: 2303D14

RcptNo: 1

Received By: Juan Rojas 3/28/2023 7:55:00 AM

*[Signature]*

Completed By: Desiree Dominguez 3/28/2023 8:27:41 AM

*[Signature]*

Reviewed By: DAD 3/28/23

## 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: ju 3/28/23

## 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:

Client information missing on COC. -DAD 3/28/23

## 17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 0.7     | Good      | Not Present | Morty   |           |           |

Client: **Vertex**

---

(direct bill to Devon)

---

Mailing Address:

---

Phone #:

---

email or Fax#:

---

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

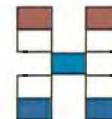
---

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other \_\_\_\_\_

☐ EDD (Type) \_\_\_\_\_

|                                                                |                                                                     |
|----------------------------------------------------------------|---------------------------------------------------------------------|
| Turn-Around Time:                                              |                                                                     |
| <input type="checkbox"/> Standard                              | <input checked="" type="checkbox"/> Rush 48-hr                      |
| Project Name:                                                  |                                                                     |
| North Pure Gold 4 Federal #003                                 |                                                                     |
| Project #:                                                     |                                                                     |
| 22E-02816-06                                                   |                                                                     |
| Project Manager:                                               |                                                                     |
| Kent Stallings                                                 |                                                                     |
| <a href="mailto:kstallings@vertex.ca">kstallings@vertex.ca</a> |                                                                     |
| Sampler: L. Pullman                                            |                                                                     |
| On Ice:                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| # of Coolers:                                                  | 1                                                                   |
| Cooler Temp (including CF):                                    | 0.1-0.1 = 0.2                                                       |



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

[illegible]

|                  |                |                                   |
|------------------|----------------|-----------------------------------|
| Date:<br>3-27-23 | Time:<br>07:00 | Relinquished by:<br>Salem Pullman |
| Date:<br>3/27/23 | Time:<br>1900  | Relinquished by:<br>C. Williams   |

|                                                                                     |      |         |      |
|-------------------------------------------------------------------------------------|------|---------|------|
| Received by:                                                                        | Via: | Date    | Time |
|  |      | 3/27/23 | 7:00 |
| Received by:                                                                        | Via: | Date    | Time |
|  |      | 3/28/23 | 7:55 |

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.



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Kent Stallings  
Vertex  
3101 Boyd Dr  
Carlsbad, New Mexico 88220

Generated 8/11/2025 7:23:57 PM

## JOB DESCRIPTION

North Pure Gold 4 Federal #003

## JOB NUMBER

885-30117-1

Eurofins Albuquerque  
4901 Hawkins NE  
Albuquerque NM 87109

# Eurofins Albuquerque

## Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

## Authorization



Authorized for release by  
Andy Freeman, Business Unit Manager  
[andy.freeman@et.eurofinsus.com](mailto:andy.freeman@et.eurofinsus.com)  
(505)345-3975

Generated  
8/11/2025 7:23:57 PM

Client: Vertex  
Project/Site: North Pure Gold 4 Federal #003

Laboratory Job ID: 885-30117-1

# Table of Contents

|                                  |    |
|----------------------------------|----|
| Cover Page . . . . .             | 1  |
| Table of Contents . . . . .      | 3  |
| Definitions/Glossary . . . . .   | 4  |
| Case Narrative . . . . .         | 5  |
| Client Sample Results . . . . .  | 6  |
| QC Sample Results . . . . .      | 8  |
| QC Association Summary . . . . . | 10 |
| Lab Chronicle . . . . .          | 12 |
| Certification Summary . . . . .  | 13 |
| Chain of Custody . . . . .       | 14 |
| Receipt Checklists . . . . .     | 15 |



Definitions/Glossary

Client: Vertex  
Project/Site: North Pure Gold 4 Federal #003

Job ID: 885-30117-1

Qualifiers

GC VOA

| Qualifier | Qualifier Description                                   |
|-----------|---------------------------------------------------------|
| S1+       | Surrogate recovery exceeds control limits, high biased. |

Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| ☼              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

## Case Narrative

Client: Vertex  
Project: North Pure Gold 4 Federal #003

Job ID: 885-30117-1

**Job ID: 885-30117-1**

**Eurofins Albuquerque**

### Job Narrative 885-30117-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

#### Receipt

The samples were received on 8/2/2025 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C.

#### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### Diesel Range Organics

Method 8015D\_DRO: The continuing calibration verification (CCV) associated with batch 885-31798 recovered above the upper control limit for Diesel Range Organics [C10-C28]. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are: Backfill-01 (885-30117-1) and Backfill-02 (885-30117-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30117-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: Backfill-01

Lab Sample ID: 885-30117-1

Date Collected: 07/31/25 09:00

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.9      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 18:46 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 95        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 18:46 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.025    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 18:46 | 1       |
| Ethylbenzene                | ND        |           | 0.049    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 18:46 | 1       |
| Toluene                     | ND        |           | 0.049    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 18:46 | 1       |
| Xylenes, Total              | ND        |           | 0.099    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 18:46 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 95        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 18:46 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.5      | mg/Kg |   | 08/06/25 14:53 | 08/07/25 17:08 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 48       | mg/Kg |   | 08/06/25 14:53 | 08/07/25 17:08 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 91        |           | 62 - 134 |       |   | 08/06/25 14:53 | 08/07/25 17:08 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 64     |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 14:57 | 20      |

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30117-1

Project/Site: North Pure Gold 4 Federal #003

## Client Sample ID: Backfill-02

## Lab Sample ID: 885-30117-2

Date Collected: 07/31/25 09:05

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 5.0      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 19:08 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 95        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 19:08 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.025    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 19:08 | 1       |
| Ethylbenzene                | ND        |           | 0.050    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 19:08 | 1       |
| Toluene                     | ND        |           | 0.050    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 19:08 | 1       |
| Xylenes, Total              | ND        |           | 0.099    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 19:08 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 94        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 19:08 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.6      | mg/Kg |   | 08/06/25 14:53 | 08/07/25 17:19 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 48       | mg/Kg |   | 08/06/25 14:53 | 08/07/25 17:19 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 99        |           | 62 - 134 |       |   | 08/06/25 14:53 | 08/07/25 17:19 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 73     |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 15:07 | 20      |

Eurofins Albuquerque

## QC Sample Results

Client: Vertex

Job ID: 885-30117-1

Project/Site: North Pure Gold 4 Federal #003

## Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-31533/1-A

Matrix: Solid

Analysis Batch: 31691

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31533

| Analyte                                 | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | ND              |                 | 5.0      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 11:51 | 1       |
| Surrogate                               | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)             | 97              |                 | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 11:51 | 1       |

Lab Sample ID: LCS 885-31533/2-A

Matrix: Solid

Analysis Batch: 31691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31533

| Analyte                                 | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|-----------------------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | 25.0             | 20.6             |                  | mg/Kg |   | 82   | 70 - 130       |
| Surrogate                               | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                |
| 4-Bromofluorobenzene (Surr)             | 197              | S1+              | 15 - 150         |       |   |      |                |

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-31533/1-A

Matrix: Solid

Analysis Batch: 31692

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31533

| Analyte                     | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND              |                 | 0.025    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 11:51 | 1       |
| Ethylbenzene                | ND              |                 | 0.050    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 11:51 | 1       |
| Toluene                     | ND              |                 | 0.050    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 11:51 | 1       |
| Xylenes, Total              | ND              |                 | 0.10     | mg/Kg |   | 08/04/25 16:22 | 08/06/25 11:51 | 1       |
| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96              |                 | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 11:51 | 1       |

Lab Sample ID: LCS 885-31533/3-A

Matrix: Solid

Analysis Batch: 31692

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31533

| Analyte                     | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|-----------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Benzene                     | 1.00             | 0.918            |                  | mg/Kg |   | 92   | 70 - 130       |
| Ethylbenzene                | 1.00             | 0.963            |                  | mg/Kg |   | 96   | 70 - 130       |
| m-Xylene & p-Xylene         | 2.00             | 1.94             |                  | mg/Kg |   | 97   | 70 - 130       |
| o-Xylene                    | 1.00             | 0.976            |                  | mg/Kg |   | 98   | 70 - 130       |
| Toluene                     | 1.00             | 0.948            |                  | mg/Kg |   | 95   | 70 - 130       |
| Surrogate                   | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                |
| 4-Bromofluorobenzene (Surr) | 96               |                  | 15 - 150         |       |   |      |                |

Eurofins Albuquerque

## QC Sample Results

Client: Vertex

Job ID: 885-30117-1

Project/Site: North Pure Gold 4 Federal #003

## Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-31726/1-A

Matrix: Solid

Analysis Batch: 31798

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31726

| Analyte                            | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND              |                 | 10       | mg/Kg |   | 08/06/25 14:53 | 08/07/25 14:15 | 1       |
| Motor Oil Range Organics [C28-C40] | ND              |                 | 50       | mg/Kg |   | 08/06/25 14:53 | 08/07/25 14:15 | 1       |
| Surrogate                          | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 92              |                 | 62 - 134 |       |   | 08/06/25 14:53 | 08/07/25 14:15 | 1       |

Lab Sample ID: LCS 885-31726/2-A

Matrix: Solid

Analysis Batch: 31798

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31726

| Analyte                            | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |  |
|------------------------------------|------------------|------------------|------------------|-------|---|------|----------------|--|
| Diesel Range Organics<br>[C10-C28] | 50.0             | 50.8             |                  | mg/Kg |   | 102  | 51 - 148       |  |
| Surrogate                          | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                |  |
| Di-n-octyl phthalate (Surr)        | 106              |                  | 62 - 134         |       |   |      |                |  |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-31578/1-A

Matrix: Solid

Analysis Batch: 31568

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31578

| Analyte  | MB<br>Result | MB<br>Qualifier | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------------|-----------------|-----|-------|---|----------------|----------------|---------|
| Chloride | ND           |                 | 1.5 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 11:45 | 1       |

Lab Sample ID: LCS 885-31578/2-A

Matrix: Solid

Analysis Batch: 31568

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31578

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |  |
|----------|----------------|---------------|------------------|-------|---|------|----------------|--|
| Chloride | 15.0           | 15.0          |                  | mg/Kg |   | 100  | 90 - 110       |  |

Lab Sample ID: 885-30117-1 MS

Matrix: Solid

Analysis Batch: 31568

Client Sample ID: Backfill-01

Prep Type: Total/NA

Prep Batch: 31578

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |  |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|--|
| Chloride | 64               |                     | 29.8           | 89.5         |                 | mg/Kg |   | 86   | 50 - 150       |  |

Lab Sample ID: 885-30117-1 MSD

Matrix: Solid

Analysis Batch: 31568

Client Sample ID: Backfill-01

Prep Type: Total/NA

Prep Batch: 31578

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 64               |                     | 30.1           | 91.8          |                  | mg/Kg |   | 92   | 50 - 150       | 3   | 20           |

Eurofins Albuquerque

## QC Association Summary

Client: Vertex

Job ID: 885-30117-1

Project/Site: North Pure Gold 4 Federal #003

## GC VOA

## Prep Batch: 31533

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-30117-1       | Backfill-01        | Total/NA  | Solid  | 5030C  |            |
| 885-30117-2       | Backfill-02        | Total/NA  | Solid  | 5030C  |            |
| MB 885-31533/1-A  | Method Blank       | Total/NA  | Solid  | 5030C  |            |
| LCS 885-31533/2-A | Lab Control Sample | Total/NA  | Solid  | 5030C  |            |
| LCS 885-31533/3-A | Lab Control Sample | Total/NA  | Solid  | 5030C  |            |

## Analysis Batch: 31691

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|-------------------|--------------------|-----------|--------|---------|------------|
| 885-30117-1       | Backfill-01        | Total/NA  | Solid  | 8015M/D | 31533      |
| 885-30117-2       | Backfill-02        | Total/NA  | Solid  | 8015M/D | 31533      |
| MB 885-31533/1-A  | Method Blank       | Total/NA  | Solid  | 8015M/D | 31533      |
| LCS 885-31533/2-A | Lab Control Sample | Total/NA  | Solid  | 8015M/D | 31533      |

## Analysis Batch: 31692

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-30117-1       | Backfill-01        | Total/NA  | Solid  | 8021B  | 31533      |
| 885-30117-2       | Backfill-02        | Total/NA  | Solid  | 8021B  | 31533      |
| MB 885-31533/1-A  | Method Blank       | Total/NA  | Solid  | 8021B  | 31533      |
| LCS 885-31533/3-A | Lab Control Sample | Total/NA  | Solid  | 8021B  | 31533      |

## GC Semi VOA

## Prep Batch: 31726

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-30117-1       | Backfill-01        | Total/NA  | Solid  | SHAKE  |            |
| 885-30117-2       | Backfill-02        | Total/NA  | Solid  | SHAKE  |            |
| MB 885-31726/1-A  | Method Blank       | Total/NA  | Solid  | SHAKE  |            |
| LCS 885-31726/2-A | Lab Control Sample | Total/NA  | Solid  | SHAKE  |            |

## Analysis Batch: 31798

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|-------------------|--------------------|-----------|--------|---------|------------|
| 885-30117-1       | Backfill-01        | Total/NA  | Solid  | 8015M/D | 31726      |
| 885-30117-2       | Backfill-02        | Total/NA  | Solid  | 8015M/D | 31726      |
| MB 885-31726/1-A  | Method Blank       | Total/NA  | Solid  | 8015M/D | 31726      |
| LCS 885-31726/2-A | Lab Control Sample | Total/NA  | Solid  | 8015M/D | 31726      |

## HPLC/IC

## Analysis Batch: 31568

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-30117-1       | Backfill-01        | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30117-2       | Backfill-02        | Total/NA  | Solid  | 300.0  | 31578      |
| MB 885-31578/1-A  | Method Blank       | Total/NA  | Solid  | 300.0  | 31578      |
| LCS 885-31578/2-A | Lab Control Sample | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30117-1 MS    | Backfill-01        | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30117-1 MSD   | Backfill-01        | Total/NA  | Solid  | 300.0  | 31578      |

## Prep Batch: 31578

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|------------------|------------------|-----------|--------|----------|------------|
| 885-30117-1      | Backfill-01      | Total/NA  | Solid  | 300_Prep |            |
| 885-30117-2      | Backfill-02      | Total/NA  | Solid  | 300_Prep |            |
| MB 885-31578/1-A | Method Blank     | Total/NA  | Solid  | 300_Prep |            |

Eurofins Albuquerque

QC Association Summary

Client: Vertex  
Project/Site: North Pure Gold 4 Federal #003

Job ID: 885-30117-1

HPLC/IC (Continued)

Prep Batch: 31578 (Continued)

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| LCS 885-31578/2-A | Lab Control Sample | Total/NA  | Solid  | 300_Prep |            |
| 885-30117-1 MS    | Backfill-01        | Total/NA  | Solid  | 300_Prep |            |
| 885-30117-1 MSD   | Backfill-01        | Total/NA  | Solid  | 300_Prep |            |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 4 Federal #003

Job ID: 885-30117-1

**Client Sample ID: Backfill-01**  
**Date Collected: 07/31/25 09:00**  
**Date Received: 08/02/25 08:15**

**Lab Sample ID: 885-30117-1**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 18:46       |
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 18:46       |
| Total/NA  | Prep       | SHAKE        |     |                 | 31726        | BZR     | EET ALB | 08/06/25 14:53       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31798        | EM      | EET ALB | 08/07/25 17:08       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 14:57       |

**Client Sample ID: Backfill-02**  
**Date Collected: 07/31/25 09:05**  
**Date Received: 08/02/25 08:15**

**Lab Sample ID: 885-30117-2**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 19:08       |
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 19:08       |
| Total/NA  | Prep       | SHAKE        |     |                 | 31726        | BZR     | EET ALB | 08/06/25 14:53       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31798        | EM      | EET ALB | 08/07/25 17:19       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 15:07       |

**Laboratory References:**  
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex  
Project/Site: North Pure Gold 4 Federal #003

Job ID: 885-30117-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority                                                                                                                                                                                             | Program     | Identification Number | Expiration Date                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|--------------------------------------|
| New Mexico                                                                                                                                                                                            | State       | NM9425, NM0901        | 02-27-26                             |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. |             |                       |                                      |
| Analysis Method                                                                                                                                                                                       | Prep Method | Matrix                | Analyte                              |
| 300.0                                                                                                                                                                                                 | 300_Prep    | Solid                 | Chloride                             |
| 8015M/D                                                                                                                                                                                               | 5030C       | Solid                 | Gasoline Range Organics (GRO)-C6-C10 |
| 8015M/D                                                                                                                                                                                               | SHAKE       | Solid                 | Diesel Range Organics [C10-C28]      |
| 8015M/D                                                                                                                                                                                               | SHAKE       | Solid                 | Motor Oil Range Organics [C28-C40]   |
| 8021B                                                                                                                                                                                                 | 5030C       | Solid                 | Benzene                              |
| 8021B                                                                                                                                                                                                 | 5030C       | Solid                 | Ethylbenzene                         |
| 8021B                                                                                                                                                                                                 | 5030C       | Solid                 | Toluene                              |
| 8021B                                                                                                                                                                                                 | 5030C       | Solid                 | Xylenes, Total                       |
| Oregon                                                                                                                                                                                                | NELAP       | NM100001              | 02-26-26                             |



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)



4901 Hawkins NE - Albuquerque, NM 87109

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

885-30117 COC

[illegible]

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.

## Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-30117-1

Login Number: 30117

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Kent Stallings  
Vertex  
3101 Boyd Dr  
Carlsbad, New Mexico 88220

Generated 8/12/2025 10:48:35 AM

## JOB DESCRIPTION

North Pure Gold 4 Federal #003

## JOB NUMBER

885-30118-1

Eurofins Albuquerque  
4901 Hawkins NE  
Albuquerque NM 87109

# Eurofins Albuquerque

## Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

## Authorization



Authorized for release by  
Andy Freeman, Business Unit Manager  
[andy.freeman@et.eurofinsus.com](mailto:andy.freeman@et.eurofinsus.com)  
(505)345-3975

Generated  
8/12/2025 10:48:35 AM

Client: Vertex  
Project/Site: North Pure Gold 4 Federal #003

Laboratory Job ID: 885-30118-1

# Table of Contents

|                                  |    |
|----------------------------------|----|
| Cover Page . . . . .             | 1  |
| Table of Contents . . . . .      | 3  |
| Definitions/Glossary . . . . .   | 4  |
| Case Narrative . . . . .         | 5  |
| Client Sample Results . . . . .  | 6  |
| QC Sample Results . . . . .      | 21 |
| QC Association Summary . . . . . | 26 |
| Lab Chronicle . . . . .          | 30 |
| Certification Summary . . . . .  | 35 |
| Chain of Custody . . . . .       | 36 |
| Receipt Checklists . . . . .     | 38 |



## Definitions/Glossary

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| ☼              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

## Case Narrative

Client: Vertex  
Project: North Pure Gold 4 Federal #003

Job ID: 885-30118-1

**Job ID: 885-30118-1**

**Eurofins Albuquerque**

### Job Narrative 885-30118-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

#### Receipt

The samples were received on 8/2/2025 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C.

#### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: BS25-01 4'

Lab Sample ID: 885-30118-1

Date Collected: 07/31/25 09:50

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 5.0      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 12:12 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 98        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 12:12 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.025    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 12:12 | 1       |
| Ethylbenzene                | ND        |           | 0.050    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 12:12 | 1       |
| Toluene                     | ND        |           | 0.050    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 12:12 | 1       |
| Xylenes, Total              | ND        |           | 0.10     | mg/Kg |   | 08/04/25 16:22 | 08/06/25 12:12 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 12:12 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.3      | mg/Kg |   | 08/05/25 12:23 | 08/06/25 15:14 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 46       | mg/Kg |   | 08/05/25 12:23 | 08/06/25 15:14 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 85        |           | 62 - 134 |       |   | 08/05/25 12:23 | 08/06/25 15:14 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 440    |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 15:59 | 20      |

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: BS25-02 4'

Lab Sample ID: 885-30118-2

Date Collected: 07/31/25 09:53

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 5.0      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 12:34 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 96        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 12:34 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.025    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 12:34 | 1       |
| Ethylbenzene                | ND        |           | 0.050    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 12:34 | 1       |
| Toluene                     | ND        |           | 0.050    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 12:34 | 1       |
| Xylenes, Total              | ND        |           | 0.10     | mg/Kg |   | 08/04/25 16:22 | 08/06/25 12:34 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 12:34 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 10       | mg/Kg |   | 08/05/25 12:23 | 08/06/25 20:48 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 50       | mg/Kg |   | 08/05/25 12:23 | 08/06/25 20:48 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 91        |           | 62 - 134 |       |   | 08/05/25 12:23 | 08/06/25 20:48 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 2500   |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 16:30 | 20      |

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: BS25-03 4'

Lab Sample ID: 885-30118-3

Date Collected: 07/31/25 09:55

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.8      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 12:56 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 96        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 12:56 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 12:56 | 1       |
| Ethylbenzene                | ND        |           | 0.048    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 12:56 | 1       |
| Toluene                     | ND        |           | 0.048    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 12:56 | 1       |
| Xylenes, Total              | ND        |           | 0.095    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 12:56 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 12:56 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.7      | mg/Kg |   | 08/05/25 12:23 | 08/06/25 21:12 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 48       | mg/Kg |   | 08/05/25 12:23 | 08/06/25 21:12 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 94        |           | 62 - 134 |       |   | 08/05/25 12:23 | 08/06/25 21:12 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 1100   |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 16:40 | 20      |

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: BS25-04 2'

Lab Sample ID: 885-30118-4

Date Collected: 07/31/25 10:00

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 5.0      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 13:18 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 96        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 13:18 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.025    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 13:18 | 1       |
| Ethylbenzene                | ND        |           | 0.050    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 13:18 | 1       |
| Toluene                     | ND        |           | 0.050    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 13:18 | 1       |
| Xylenes, Total              | ND        |           | 0.10     | mg/Kg |   | 08/04/25 16:22 | 08/06/25 13:18 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 13:18 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.3      | mg/Kg |   | 08/06/25 09:44 | 08/06/25 15:28 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 46       | mg/Kg |   | 08/06/25 09:44 | 08/06/25 15:28 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 97        |           | 62 - 134 |       |   | 08/06/25 09:44 | 08/06/25 15:28 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 120    |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 16:51 | 20      |

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: BS25-05 2'

Lab Sample ID: 885-30118-5

Date Collected: 07/31/25 10:02

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.7      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 13:40 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 96        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 13:40 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 13:40 | 1       |
| Ethylbenzene                | ND        |           | 0.047    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 13:40 | 1       |
| Toluene                     | ND        |           | 0.047    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 13:40 | 1       |
| Xylenes, Total              | ND        |           | 0.095    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 13:40 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 13:40 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.3      | mg/Kg |   | 08/06/25 09:44 | 08/06/25 18:00 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 46       | mg/Kg |   | 08/06/25 09:44 | 08/06/25 18:00 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 102       |           | 62 - 134 |       |   | 08/06/25 09:44 | 08/06/25 18:00 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 100    |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 17:01 | 20      |

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: BS25-06 1'

Lab Sample ID: 885-30118-6

Date Collected: 07/31/25 10:10

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.6      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 14:01 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 98        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 14:01 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.023    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 14:01 | 1       |
| Ethylbenzene                | ND        |           | 0.046    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 14:01 | 1       |
| Toluene                     | ND        |           | 0.046    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 14:01 | 1       |
| Xylenes, Total              | ND        |           | 0.092    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 14:01 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 14:01 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.8      | mg/Kg |   | 08/06/25 09:44 | 08/06/25 18:11 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 49       | mg/Kg |   | 08/06/25 09:44 | 08/06/25 18:11 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 101       |           | 62 - 134 |       |   | 08/06/25 09:44 | 08/06/25 18:11 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 110    |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 17:11 | 20      |

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: BS25-07 0'

Lab Sample ID: 885-30118-7

Date Collected: 07/31/25 13:25

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.7      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 14:23 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 97        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 14:23 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.023    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 14:23 | 1       |
| Ethylbenzene                | ND        |           | 0.047    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 14:23 | 1       |
| Toluene                     | ND        |           | 0.047    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 14:23 | 1       |
| Xylenes, Total              | ND        |           | 0.094    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 14:23 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 14:23 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 230       |           | 9.5      | mg/Kg |   | 08/06/25 09:44 | 08/06/25 18:22 | 1       |
| Motor Oil Range Organics [C28-C40] | 430       |           | 47       | mg/Kg |   | 08/06/25 09:44 | 08/06/25 18:22 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 121       |           | 62 - 134 |       |   | 08/06/25 09:44 | 08/06/25 18:22 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 1300   |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 17:42 | 20      |

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: BS25-08 0'

Lab Sample ID: 885-30118-8

Date Collected: 07/31/25 13:30

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.8      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 14:45 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 98        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 14:45 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 14:45 | 1       |
| Ethylbenzene                | ND        |           | 0.048    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 14:45 | 1       |
| Toluene                     | ND        |           | 0.048    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 14:45 | 1       |
| Xylenes, Total              | ND        |           | 0.096    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 14:45 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 14:45 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.9      | mg/Kg |   | 08/06/25 09:44 | 08/06/25 18:34 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 49       | mg/Kg |   | 08/06/25 09:44 | 08/06/25 18:34 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 104       |           | 62 - 134 |       |   | 08/06/25 09:44 | 08/06/25 18:34 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 3200   |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 17:53 | 20      |

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: BS25-09 0'

Lab Sample ID: 885-30118-9

Date Collected: 07/31/25 13:35

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.9      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 15:07 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 100       |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 15:07 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 15:07 | 1       |
| Ethylbenzene                | ND        |           | 0.049    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 15:07 | 1       |
| Toluene                     | ND        |           | 0.049    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 15:07 | 1       |
| Xylenes, Total              | ND        |           | 0.098    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 15:07 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 15:07 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.3      | mg/Kg |   | 08/06/25 09:44 | 08/06/25 18:45 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 46       | mg/Kg |   | 08/06/25 09:44 | 08/06/25 18:45 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 119       |           | 62 - 134 |       |   | 08/06/25 09:44 | 08/06/25 18:45 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 1300   |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 18:03 | 20      |

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: WS25-01 0-4'

Lab Sample ID: 885-30118-10

Date Collected: 07/31/25 09:35

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.6      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 15:29 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 99        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 15:29 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.023    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 15:29 | 1       |
| Ethylbenzene                | ND        |           | 0.046    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 15:29 | 1       |
| Toluene                     | ND        |           | 0.046    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 15:29 | 1       |
| Xylenes, Total              | ND        |           | 0.092    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 15:29 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 15:29 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.4      | mg/Kg |   | 08/06/25 09:44 | 08/06/25 18:56 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 47       | mg/Kg |   | 08/06/25 09:44 | 08/06/25 18:56 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 104       |           | 62 - 134 |       |   | 08/06/25 09:44 | 08/06/25 18:56 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 500    |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 18:14 | 20      |

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: WS25-02 0-4'

Lab Sample ID: 885-30118-11

Date Collected: 07/31/25 09:40

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.9      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 16:13 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 99        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 16:13 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 16:13 | 1       |
| Ethylbenzene                | ND        |           | 0.049    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 16:13 | 1       |
| Toluene                     | ND        |           | 0.049    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 16:13 | 1       |
| Xylenes, Total              | ND        |           | 0.098    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 16:13 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 16:13 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 10       | mg/Kg |   | 08/06/25 09:44 | 08/06/25 19:18 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 50       | mg/Kg |   | 08/06/25 09:44 | 08/06/25 19:18 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 105       |           | 62 - 134 |       |   | 08/06/25 09:44 | 08/06/25 19:18 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 78     |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 18:24 | 20      |

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: WS25-03 0-4'

Lab Sample ID: 885-30118-12

Date Collected: 07/31/25 09:43

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.7      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 16:35 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 101       |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 16:35 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 16:35 | 1       |
| Ethylbenzene                | ND        |           | 0.047    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 16:35 | 1       |
| Toluene                     | ND        |           | 0.047    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 16:35 | 1       |
| Xylenes, Total              | ND        |           | 0.095    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 16:35 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 16:35 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.7      | mg/Kg |   | 08/06/25 09:44 | 08/06/25 19:29 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 48       | mg/Kg |   | 08/06/25 09:44 | 08/06/25 19:29 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 132       |           | 62 - 134 |       |   | 08/06/25 09:44 | 08/06/25 19:29 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 63     |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 18:34 | 20      |

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: WS25-04 2-4'

Lab Sample ID: 885-30118-13

Date Collected: 07/31/25 09:45

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.9      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 16:57 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 97        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 16:57 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.025    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 16:57 | 1       |
| Ethylbenzene                | ND        |           | 0.049    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 16:57 | 1       |
| Toluene                     | ND        |           | 0.049    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 16:57 | 1       |
| Xylenes, Total              | ND        |           | 0.099    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 16:57 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 16:57 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.5      | mg/Kg |   | 08/06/25 09:44 | 08/06/25 19:40 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 47       | mg/Kg |   | 08/06/25 09:44 | 08/06/25 19:40 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 103       |           | 62 - 134 |       |   | 08/06/25 09:44 | 08/06/25 19:40 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 150    |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 18:45 | 20      |

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: WS25-05 0-2'

Lab Sample ID: 885-30118-14

Date Collected: 07/31/25 10:05

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.8      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 17:19 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 97        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 17:19 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 17:19 | 1       |
| Ethylbenzene                | ND        |           | 0.048    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 17:19 | 1       |
| Toluene                     | ND        |           | 0.048    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 17:19 | 1       |
| Xylenes, Total              | ND        |           | 0.096    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 17:19 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 17:19 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.6      | mg/Kg |   | 08/06/25 09:44 | 08/06/25 19:51 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 48       | mg/Kg |   | 08/06/25 09:44 | 08/06/25 19:51 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 118       |           | 62 - 134 |       |   | 08/06/25 09:44 | 08/06/25 19:51 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 110    |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 18:55 | 20      |

Eurofins Albuquerque

## Client Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: WS25-06 0-1'

Lab Sample ID: 885-30118-15

Date Collected: 07/31/25 10:15

Matrix: Solid

Date Received: 08/02/25 08:15

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.7      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 17:41 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 95        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 17:41 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.023    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 17:41 | 1       |
| Ethylbenzene                | ND        |           | 0.047    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 17:41 | 1       |
| Toluene                     | ND        |           | 0.047    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 17:41 | 1       |
| Xylenes, Total              | ND        |           | 0.093    | mg/Kg |   | 08/04/25 16:22 | 08/06/25 17:41 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 95        |           | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 17:41 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.6      | mg/Kg |   | 08/06/25 09:44 | 08/06/25 16:02 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 48       | mg/Kg |   | 08/06/25 09:44 | 08/06/25 16:02 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 101       |           | 62 - 134 |       |   | 08/06/25 09:44 | 08/06/25 16:02 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 110    |           | 60 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 19:05 | 20      |

Eurofins Albuquerque

## QC Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

## Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-31533/1-A

Matrix: Solid

Analysis Batch: 31691

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31533

| Analyte                                 | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | ND              |                 | 5.0      | mg/Kg |   | 08/04/25 16:22 | 08/06/25 11:51 | 1       |
| Surrogate                               | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)             | 97              |                 | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 11:51 | 1       |

Lab Sample ID: LCS 885-31533/2-A

Matrix: Solid

Analysis Batch: 31691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31533

| Analyte                                 | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|-----------------------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | 25.0             | 20.6             |                  | mg/Kg |   | 82   | 70 - 130       |
| Surrogate                               | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                |
| 4-Bromofluorobenzene (Surr)             | 197              |                  | 15 - 150         |       |   |      |                |

Lab Sample ID: 885-30118-1 MS

Matrix: Solid

Analysis Batch: 31822

Client Sample ID: BS25-01 4'

Prep Type: Total/NA

Prep Batch: 31533

| Analyte                                 | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|-----------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | ND               |                     | 25.0           | 17.8         |                 | mg/Kg |   | 71   | 70 - 130       |
| Surrogate                               | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |       |   |      |                |
| 4-Bromofluorobenzene (Surr)             | 209              |                     | 15 - 150       |              |                 |       |   |      |                |

Lab Sample ID: 885-30118-1 MSD

Matrix: Solid

Analysis Batch: 31691

Client Sample ID: BS25-01 4'

Prep Type: Total/NA

Prep Batch: 31533

| Analyte                                 | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|-----------------------------------------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | ND               |                     | 24.9           | 17.9          |                  | mg/Kg |   | 72   | 70 - 130       | 1   | 20           |
| Surrogate                               | MSD<br>%Recovery | MSD<br>Qualifier    | Limits         |               |                  |       |   |      |                |     |              |
| 4-Bromofluorobenzene (Surr)             | 211              |                     | 15 - 150       |               |                  |       |   |      |                |     |              |

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-31533/1-A

Matrix: Solid

Analysis Batch: 31692

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31533

| Analyte      | MB<br>Result | MB<br>Qualifier | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------------|-----------------|-------|-------|---|----------------|----------------|---------|
| Benzene      | ND           |                 | 0.025 | mg/Kg |   | 08/04/25 16:22 | 08/06/25 11:51 | 1       |
| Ethylbenzene | ND           |                 | 0.050 | mg/Kg |   | 08/04/25 16:22 | 08/06/25 11:51 | 1       |
| Toluene      | ND           |                 | 0.050 | mg/Kg |   | 08/04/25 16:22 | 08/06/25 11:51 | 1       |

Eurofins Albuquerque

## QC Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-31533/1-A

Matrix: Solid

Analysis Batch: 31692

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31533

| Analyte                     | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Xylenes, Total              | ND              |                 | 0.10     | mg/Kg |   | 08/04/25 16:22 | 08/06/25 11:51 | 1       |
| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96              |                 | 15 - 150 |       |   | 08/04/25 16:22 | 08/06/25 11:51 | 1       |

Lab Sample ID: LCS 885-31533/3-A

Matrix: Solid

Analysis Batch: 31692

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31533

| Analyte                     | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|-----------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Benzene                     | 1.00             | 0.918            |                  | mg/Kg |   | 92   | 70 - 130       |
| Ethylbenzene                | 1.00             | 0.963            |                  | mg/Kg |   | 96   | 70 - 130       |
| m-Xylene & p-Xylene         | 2.00             | 1.94             |                  | mg/Kg |   | 97   | 70 - 130       |
| o-Xylene                    | 1.00             | 0.976            |                  | mg/Kg |   | 98   | 70 - 130       |
| Toluene                     | 1.00             | 0.948            |                  | mg/Kg |   | 95   | 70 - 130       |
| Surrogate                   | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                |
| 4-Bromofluorobenzene (Surr) | 96               |                  | 15 - 150         |       |   |      |                |

Lab Sample ID: 885-30118-2 MS

Matrix: Solid

Analysis Batch: 31692

Client Sample ID: BS25-02 4'

Prep Type: Total/NA

Prep Batch: 31533

| Analyte                     | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|-----------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Benzene                     | ND               |                     | 0.992          | 0.848        |                 | mg/Kg |   | 86   | 70 - 130       |
| Ethylbenzene                | ND               |                     | 0.992          | 0.912        |                 | mg/Kg |   | 92   | 70 - 130       |
| m-Xylene & p-Xylene         | ND               |                     | 1.98           | 1.85         |                 | mg/Kg |   | 93   | 70 - 130       |
| o-Xylene                    | ND               |                     | 0.992          | 0.927        |                 | mg/Kg |   | 93   | 70 - 130       |
| Toluene                     | ND               |                     | 0.992          | 0.898        |                 | mg/Kg |   | 91   | 70 - 130       |
| Surrogate                   | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |       |   |      |                |
| 4-Bromofluorobenzene (Surr) | 98               |                     | 15 - 150       |              |                 |       |   |      |                |

Lab Sample ID: 885-30118-2 MSD

Matrix: Solid

Analysis Batch: 31823

Client Sample ID: BS25-02 4'

Prep Type: Total/NA

Prep Batch: 31533

| Analyte                     | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|-----------------------------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Benzene                     | ND               |                     | 0.997          | 0.870         |                  | mg/Kg |   | 87   | 70 - 130       | 3   | 20           |
| Ethylbenzene                | ND               |                     | 0.997          | 0.943         |                  | mg/Kg |   | 95   | 70 - 130       | 3   | 20           |
| m-Xylene & p-Xylene         | ND               |                     | 1.99           | 1.93          |                  | mg/Kg |   | 97   | 70 - 130       | 5   | 20           |
| o-Xylene                    | ND               |                     | 0.997          | 0.953         |                  | mg/Kg |   | 96   | 70 - 130       | 3   | 20           |
| Toluene                     | ND               |                     | 0.997          | 0.932         |                  | mg/Kg |   | 93   | 70 - 130       | 4   | 20           |
| Surrogate                   | MSD<br>%Recovery | MSD<br>Qualifier    | Limits         |               |                  |       |   |      |                |     |              |
| 4-Bromofluorobenzene (Surr) | 100              |                     | 15 - 150       |               |                  |       |   |      |                |     |              |

Eurofins Albuquerque

## QC Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

## Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-31610/1-A

Matrix: Solid

Analysis Batch: 31680

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31610

| Analyte                            | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND              |                 | 10       | mg/Kg |   | 08/05/25 12:23 | 08/06/25 14:26 | 1       |
| Motor Oil Range Organics [C28-C40] | ND              |                 | 50       | mg/Kg |   | 08/05/25 12:23 | 08/06/25 14:26 | 1       |
| Surrogate                          | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 87              |                 | 62 - 134 |       |   | 08/05/25 12:23 | 08/06/25 14:26 | 1       |

Lab Sample ID: LCS 885-31610/2-A

Matrix: Solid

Analysis Batch: 31680

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31610

| Analyte                         | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|---------------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Diesel Range Organics [C10-C28] | 50.0             | 43.4             |                  | mg/Kg |   | 87   | 51 - 148       |
| Surrogate                       | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                |
| Di-n-octyl phthalate (Surr)     | 84               |                  | 62 - 134         |       |   |      |                |

Lab Sample ID: 885-30118-1 MS

Matrix: Solid

Analysis Batch: 31680

Client Sample ID: BS25-01 4'

Prep Type: Total/NA

Prep Batch: 31610

| Analyte                         | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|---------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Diesel Range Organics [C10-C28] | ND               |                     | 49.8           | 43.0         |                 | mg/Kg |   | 86   | 44 - 136       |
| Surrogate                       | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |       |   |      |                |
| Di-n-octyl phthalate (Surr)     | 90               |                     | 62 - 134       |              |                 |       |   |      |                |

Lab Sample ID: 885-30118-1 MSD

Matrix: Solid

Analysis Batch: 31680

Client Sample ID: BS25-01 4'

Prep Type: Total/NA

Prep Batch: 31610

| Analyte                         | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|---------------------------------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Diesel Range Organics [C10-C28] | ND               |                     | 47.5           | 42.9          |                  | mg/Kg |   | 90   | 44 - 136       | 0   | 32           |
| Surrogate                       | MSD<br>%Recovery | MSD<br>Qualifier    | Limits         |               |                  |       |   |      |                |     |              |
| Di-n-octyl phthalate (Surr)     | 94               |                     | 62 - 134       |               |                  |       |   |      |                |     |              |

Lab Sample ID: MB 885-31678/1-A

Matrix: Solid

Analysis Batch: 31660

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31678

| Analyte                            | MB<br>Result | MB<br>Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|--------------|-----------------|----|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND           |                 | 10 | mg/Kg |   | 08/06/25 09:43 | 08/06/25 15:06 | 1       |
| Motor Oil Range Organics [C28-C40] | ND           |                 | 50 | mg/Kg |   | 08/06/25 09:43 | 08/06/25 15:06 | 1       |

Eurofins Albuquerque

## QC Sample Results

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

## Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-31678/1-A

Matrix: Solid

Analysis Batch: 31660

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31678

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| Di-n-octyl phthalate (Surr) | 119             |                 | 62 - 134 | 08/06/25 09:43 | 08/06/25 15:06 | 1       |

Lab Sample ID: LCS 885-31678/2-A

Matrix: Solid

Analysis Batch: 31660

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31678

| Analyte                            |           |           | Spike    | LCS    | LCS       | Unit  | D | %Rec   | %Rec     |  |  |
|------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|--------|----------|--|--|
|                                    |           |           | Added    | Result | Qualifier |       |   | Limits |          |  |  |
| Diesel Range Organics<br>[C10-C28] |           |           | 50.0     | 44.5   |           | mg/Kg |   | 89     | 51 - 148 |  |  |
| Surrogate                          | LCS       |           | LCS      |        |           |       |   |        |          |  |  |
|                                    | %Recovery | Qualifier | Limits   |        |           |       |   |        |          |  |  |
| Di-n-octyl phthalate (Surr)        | 97        |           | 62 - 134 |        |           |       |   |        |          |  |  |

Lab Sample ID: 885-30118-4 MS

Matrix: Solid

Analysis Batch: 31660

Client Sample ID: BS25-04 2'

Prep Type: Total/NA

Prep Batch: 31678

| Analyte                            | Sample    | Sample    | Spike    | MS     | MS        | Unit  | D | %Rec   | %Rec     |  |  |
|------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|--------|----------|--|--|
|                                    | Result    | Qualifier | Added    | Result | Qualifier |       |   | Limits |          |  |  |
| Diesel Range Organics<br>[C10-C28] | ND        |           | 46.1     | 41.6   |           | mg/Kg |   | 90     | 44 - 136 |  |  |
| Surrogate                          | MS        | MS        |          |        |           |       |   |        |          |  |  |
|                                    | %Recovery | Qualifier | Limits   |        |           |       |   |        |          |  |  |
| Di-n-octyl phthalate (Surr)        | 108       |           | 62 - 134 |        |           |       |   |        |          |  |  |

Lab Sample ID: 885-30118-4 MSD

Matrix: Solid

Analysis Batch: 31660

Client Sample ID: BS25-04 2'

Prep Type: Total/NA

Prep Batch: 31678

| Analyte                            | Sample           | Sample           | Spike    | MSD    | MSD       | Unit  | D | %Rec | %Rec     | RPD | RPD   |
|------------------------------------|------------------|------------------|----------|--------|-----------|-------|---|------|----------|-----|-------|
|                                    | Result           | Qualifier        | Added    | Result | Qualifier |       |   |      | Limits   |     | Limit |
| Diesel Range Organics<br>[C10-C28] | ND               |                  | 47.6     | 42.5   |           | mg/Kg |   | 89   | 44 - 136 | 2   | 32    |
| Surrogate                          | MSD<br>%Recovery | MSD<br>Qualifier | Limits   |        |           |       |   |      |          |     |       |
| Di-n-octyl phthalate (Surr)        | 104              |                  | 62 - 134 |        |           |       |   |      |          |     |       |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-31578/1-A

Matrix: Solid

Analysis Batch: 31568

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31578

| Analyte  | MB<br>Result | MB<br>Qualifier | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------------|-----------------|-----|-------|---|----------------|----------------|---------|
| Chloride | ND           |                 | 1.5 | mg/Kg |   | 08/05/25 09:31 | 08/05/25 11:45 | 1       |

Eurofins Albuquerque

QC Sample Results

Client: Vertex  
Project/Site: North Pure Gold 4 Federal #003

Job ID: 885-30118-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

|                                  |             |            |               |                                      |   |      |             |
|----------------------------------|-------------|------------|---------------|--------------------------------------|---|------|-------------|
| Lab Sample ID: LCS 885-31578/2-A |             |            |               | Client Sample ID: Lab Control Sample |   |      |             |
| Matrix: Solid                    |             |            |               | Prep Type: Total/NA                  |   |      |             |
| Analysis Batch: 31568            |             |            |               | Prep Batch: 31578                    |   |      |             |
| Analyte                          | Spike Added | LCS Result | LCS Qualifier | Unit                                 | D | %Rec | %Rec Limits |
| Chloride                         | 15.0        | 15.0       |               | mg/Kg                                |   | 100  | 90 - 110    |

## QC Association Summary

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

## GC VOA

## Prep Batch: 31533

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-30118-1       | BS25-01 4'         | Total/NA  | Solid  | 5030C  |            |
| 885-30118-2       | BS25-02 4'         | Total/NA  | Solid  | 5030C  |            |
| 885-30118-3       | BS25-03 4'         | Total/NA  | Solid  | 5030C  |            |
| 885-30118-4       | BS25-04 2'         | Total/NA  | Solid  | 5030C  |            |
| 885-30118-5       | BS25-05 2'         | Total/NA  | Solid  | 5030C  |            |
| 885-30118-6       | BS25-06 1'         | Total/NA  | Solid  | 5030C  |            |
| 885-30118-7       | BS25-07 0'         | Total/NA  | Solid  | 5030C  |            |
| 885-30118-8       | BS25-08 0'         | Total/NA  | Solid  | 5030C  |            |
| 885-30118-9       | BS25-09 0'         | Total/NA  | Solid  | 5030C  |            |
| 885-30118-10      | WS25-01 0-4'       | Total/NA  | Solid  | 5030C  |            |
| 885-30118-11      | WS25-02 0-4'       | Total/NA  | Solid  | 5030C  |            |
| 885-30118-12      | WS25-03 0-4'       | Total/NA  | Solid  | 5030C  |            |
| 885-30118-13      | WS25-04 2-4'       | Total/NA  | Solid  | 5030C  |            |
| 885-30118-14      | WS25-05 0-2'       | Total/NA  | Solid  | 5030C  |            |
| 885-30118-15      | WS25-06 0-1'       | Total/NA  | Solid  | 5030C  |            |
| MB 885-31533/1-A  | Method Blank       | Total/NA  | Solid  | 5030C  |            |
| LCS 885-31533/2-A | Lab Control Sample | Total/NA  | Solid  | 5030C  |            |
| LCS 885-31533/3-A | Lab Control Sample | Total/NA  | Solid  | 5030C  |            |
| 885-30118-1 MS    | BS25-01 4'         | Total/NA  | Solid  | 5030C  |            |
| 885-30118-1 MSD   | BS25-01 4'         | Total/NA  | Solid  | 5030C  |            |
| 885-30118-2 MS    | BS25-02 4'         | Total/NA  | Solid  | 5030C  |            |
| 885-30118-2 MSD   | BS25-02 4'         | Total/NA  | Solid  | 5030C  |            |

## Analysis Batch: 31691

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|-------------------|--------------------|-----------|--------|---------|------------|
| 885-30118-1       | BS25-01 4'         | Total/NA  | Solid  | 8015M/D | 31533      |
| 885-30118-2       | BS25-02 4'         | Total/NA  | Solid  | 8015M/D | 31533      |
| 885-30118-3       | BS25-03 4'         | Total/NA  | Solid  | 8015M/D | 31533      |
| 885-30118-4       | BS25-04 2'         | Total/NA  | Solid  | 8015M/D | 31533      |
| 885-30118-5       | BS25-05 2'         | Total/NA  | Solid  | 8015M/D | 31533      |
| 885-30118-6       | BS25-06 1'         | Total/NA  | Solid  | 8015M/D | 31533      |
| 885-30118-7       | BS25-07 0'         | Total/NA  | Solid  | 8015M/D | 31533      |
| 885-30118-8       | BS25-08 0'         | Total/NA  | Solid  | 8015M/D | 31533      |
| 885-30118-9       | BS25-09 0'         | Total/NA  | Solid  | 8015M/D | 31533      |
| 885-30118-10      | WS25-01 0-4'       | Total/NA  | Solid  | 8015M/D | 31533      |
| 885-30118-11      | WS25-02 0-4'       | Total/NA  | Solid  | 8015M/D | 31533      |
| 885-30118-12      | WS25-03 0-4'       | Total/NA  | Solid  | 8015M/D | 31533      |
| 885-30118-13      | WS25-04 2-4'       | Total/NA  | Solid  | 8015M/D | 31533      |
| 885-30118-14      | WS25-05 0-2'       | Total/NA  | Solid  | 8015M/D | 31533      |
| 885-30118-15      | WS25-06 0-1'       | Total/NA  | Solid  | 8015M/D | 31533      |
| MB 885-31533/1-A  | Method Blank       | Total/NA  | Solid  | 8015M/D | 31533      |
| LCS 885-31533/2-A | Lab Control Sample | Total/NA  | Solid  | 8015M/D | 31533      |
| 885-30118-1 MSD   | BS25-01 4'         | Total/NA  | Solid  | 8015M/D | 31533      |

## Analysis Batch: 31692

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 885-30118-1   | BS25-01 4'       | Total/NA  | Solid  | 8021B  | 31533      |
| 885-30118-2   | BS25-02 4'       | Total/NA  | Solid  | 8021B  | 31533      |
| 885-30118-3   | BS25-03 4'       | Total/NA  | Solid  | 8021B  | 31533      |
| 885-30118-4   | BS25-04 2'       | Total/NA  | Solid  | 8021B  | 31533      |
| 885-30118-5   | BS25-05 2'       | Total/NA  | Solid  | 8021B  | 31533      |

Eurofins Albuquerque

## QC Association Summary

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

## GC VOA (Continued)

## Analysis Batch: 31692 (Continued)

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-30118-6       | BS25-06 1'         | Total/NA  | Solid  | 8021B  | 31533      |
| 885-30118-7       | BS25-07 0'         | Total/NA  | Solid  | 8021B  | 31533      |
| 885-30118-8       | BS25-08 0'         | Total/NA  | Solid  | 8021B  | 31533      |
| 885-30118-9       | BS25-09 0'         | Total/NA  | Solid  | 8021B  | 31533      |
| 885-30118-10      | WS25-01 0-4'       | Total/NA  | Solid  | 8021B  | 31533      |
| 885-30118-11      | WS25-02 0-4'       | Total/NA  | Solid  | 8021B  | 31533      |
| 885-30118-12      | WS25-03 0-4'       | Total/NA  | Solid  | 8021B  | 31533      |
| 885-30118-13      | WS25-04 2-4'       | Total/NA  | Solid  | 8021B  | 31533      |
| 885-30118-14      | WS25-05 0-2'       | Total/NA  | Solid  | 8021B  | 31533      |
| 885-30118-15      | WS25-06 0-1'       | Total/NA  | Solid  | 8021B  | 31533      |
| MB 885-31533/1-A  | Method Blank       | Total/NA  | Solid  | 8021B  | 31533      |
| LCS 885-31533/3-A | Lab Control Sample | Total/NA  | Solid  | 8021B  | 31533      |
| 885-30118-2 MS    | BS25-02 4'         | Total/NA  | Solid  | 8021B  | 31533      |

## Analysis Batch: 31822

| Lab Sample ID  | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|----------------|------------------|-----------|--------|---------|------------|
| 885-30118-1 MS | BS25-01 4'       | Total/NA  | Solid  | 8015M/D | 31533      |

## Analysis Batch: 31823

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| 885-30118-2 MSD | BS25-02 4'       | Total/NA  | Solid  | 8021B  | 31533      |

## GC Semi VOA

## Prep Batch: 31610

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-30118-1       | BS25-01 4'         | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-2       | BS25-02 4'         | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-3       | BS25-03 4'         | Total/NA  | Solid  | SHAKE  |            |
| MB 885-31610/1-A  | Method Blank       | Total/NA  | Solid  | SHAKE  |            |
| LCS 885-31610/2-A | Lab Control Sample | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-1 MS    | BS25-01 4'         | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-1 MSD   | BS25-01 4'         | Total/NA  | Solid  | SHAKE  |            |

## Analysis Batch: 31660

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|-------------------|--------------------|-----------|--------|---------|------------|
| 885-30118-4       | BS25-04 2'         | Total/NA  | Solid  | 8015M/D | 31678      |
| 885-30118-5       | BS25-05 2'         | Total/NA  | Solid  | 8015M/D | 31678      |
| 885-30118-6       | BS25-06 1'         | Total/NA  | Solid  | 8015M/D | 31678      |
| 885-30118-7       | BS25-07 0'         | Total/NA  | Solid  | 8015M/D | 31678      |
| 885-30118-8       | BS25-08 0'         | Total/NA  | Solid  | 8015M/D | 31678      |
| 885-30118-9       | BS25-09 0'         | Total/NA  | Solid  | 8015M/D | 31678      |
| 885-30118-10      | WS25-01 0-4'       | Total/NA  | Solid  | 8015M/D | 31678      |
| 885-30118-11      | WS25-02 0-4'       | Total/NA  | Solid  | 8015M/D | 31678      |
| 885-30118-12      | WS25-03 0-4'       | Total/NA  | Solid  | 8015M/D | 31678      |
| 885-30118-13      | WS25-04 2-4'       | Total/NA  | Solid  | 8015M/D | 31678      |
| 885-30118-14      | WS25-05 0-2'       | Total/NA  | Solid  | 8015M/D | 31678      |
| MB 885-31678/1-A  | Method Blank       | Total/NA  | Solid  | 8015M/D | 31678      |
| LCS 885-31678/2-A | Lab Control Sample | Total/NA  | Solid  | 8015M/D | 31678      |
| 885-30118-4 MS    | BS25-04 2'         | Total/NA  | Solid  | 8015M/D | 31678      |
| 885-30118-4 MSD   | BS25-04 2'         | Total/NA  | Solid  | 8015M/D | 31678      |

Eurofins Albuquerque

## QC Association Summary

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

## GC Semi VOA

## Prep Batch: 31678

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-30118-4       | BS25-04 2'         | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-5       | BS25-05 2'         | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-6       | BS25-06 1'         | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-7       | BS25-07 0'         | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-8       | BS25-08 0'         | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-9       | BS25-09 0'         | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-10      | WS25-01 0-4'       | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-11      | WS25-02 0-4'       | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-12      | WS25-03 0-4'       | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-13      | WS25-04 2-4'       | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-14      | WS25-05 0-2'       | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-15      | WS25-06 0-1'       | Total/NA  | Solid  | SHAKE  |            |
| MB 885-31678/1-A  | Method Blank       | Total/NA  | Solid  | SHAKE  |            |
| LCS 885-31678/2-A | Lab Control Sample | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-4 MS    | BS25-04 2'         | Total/NA  | Solid  | SHAKE  |            |
| 885-30118-4 MSD   | BS25-04 2'         | Total/NA  | Solid  | SHAKE  |            |

## Analysis Batch: 31680

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|-------------------|--------------------|-----------|--------|---------|------------|
| 885-30118-1       | BS25-01 4'         | Total/NA  | Solid  | 8015M/D | 31610      |
| 885-30118-2       | BS25-02 4'         | Total/NA  | Solid  | 8015M/D | 31610      |
| 885-30118-3       | BS25-03 4'         | Total/NA  | Solid  | 8015M/D | 31610      |
| 885-30118-15      | WS25-06 0-1'       | Total/NA  | Solid  | 8015M/D | 31678      |
| MB 885-31610/1-A  | Method Blank       | Total/NA  | Solid  | 8015M/D | 31610      |
| LCS 885-31610/2-A | Lab Control Sample | Total/NA  | Solid  | 8015M/D | 31610      |
| 885-30118-1 MS    | BS25-01 4'         | Total/NA  | Solid  | 8015M/D | 31610      |
| 885-30118-1 MSD   | BS25-01 4'         | Total/NA  | Solid  | 8015M/D | 31610      |

## HPLC/IC

## Analysis Batch: 31568

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-30118-1       | BS25-01 4'         | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30118-2       | BS25-02 4'         | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30118-3       | BS25-03 4'         | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30118-4       | BS25-04 2'         | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30118-5       | BS25-05 2'         | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30118-6       | BS25-06 1'         | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30118-7       | BS25-07 0'         | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30118-8       | BS25-08 0'         | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30118-9       | BS25-09 0'         | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30118-10      | WS25-01 0-4'       | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30118-11      | WS25-02 0-4'       | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30118-12      | WS25-03 0-4'       | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30118-13      | WS25-04 2-4'       | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30118-14      | WS25-05 0-2'       | Total/NA  | Solid  | 300.0  | 31578      |
| 885-30118-15      | WS25-06 0-1'       | Total/NA  | Solid  | 300.0  | 31578      |
| MB 885-31578/1-A  | Method Blank       | Total/NA  | Solid  | 300.0  | 31578      |
| LCS 885-31578/2-A | Lab Control Sample | Total/NA  | Solid  | 300.0  | 31578      |

Eurofins Albuquerque

## QC Association Summary

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

## HPLC/IC

## Prep Batch: 31578

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 885-30118-1       | BS25-01 4'         | Total/NA  | Solid  | 300_Prep |            |
| 885-30118-2       | BS25-02 4'         | Total/NA  | Solid  | 300_Prep |            |
| 885-30118-3       | BS25-03 4'         | Total/NA  | Solid  | 300_Prep |            |
| 885-30118-4       | BS25-04 2'         | Total/NA  | Solid  | 300_Prep |            |
| 885-30118-5       | BS25-05 2'         | Total/NA  | Solid  | 300_Prep |            |
| 885-30118-6       | BS25-06 1'         | Total/NA  | Solid  | 300_Prep |            |
| 885-30118-7       | BS25-07 0'         | Total/NA  | Solid  | 300_Prep |            |
| 885-30118-8       | BS25-08 0'         | Total/NA  | Solid  | 300_Prep |            |
| 885-30118-9       | BS25-09 0'         | Total/NA  | Solid  | 300_Prep |            |
| 885-30118-10      | WS25-01 0-4'       | Total/NA  | Solid  | 300_Prep |            |
| 885-30118-11      | WS25-02 0-4'       | Total/NA  | Solid  | 300_Prep |            |
| 885-30118-12      | WS25-03 0-4'       | Total/NA  | Solid  | 300_Prep |            |
| 885-30118-13      | WS25-04 2-4'       | Total/NA  | Solid  | 300_Prep |            |
| 885-30118-14      | WS25-05 0-2'       | Total/NA  | Solid  | 300_Prep |            |
| 885-30118-15      | WS25-06 0-1'       | Total/NA  | Solid  | 300_Prep |            |
| MB 885-31578/1-A  | Method Blank       | Total/NA  | Solid  | 300_Prep |            |
| LCS 885-31578/2-A | Lab Control Sample | Total/NA  | Solid  | 300_Prep |            |

Eurofins Albuquerque

## Lab Chronicle

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: BS25-01 4'

Lab Sample ID: 885-30118-1

Date Collected: 07/31/25 09:50

Matrix: Solid

Date Received: 08/02/25 08:15

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 12:12       |
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 12:12       |
| Total/NA  | Prep       | SHAKE        |     |                 | 31610        | JM      | EET ALB | 08/05/25 12:23       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31680        | EM      | EET ALB | 08/06/25 15:14       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 15:59       |

Client Sample ID: BS25-02 4'

Lab Sample ID: 885-30118-2

Date Collected: 07/31/25 09:53

Matrix: Solid

Date Received: 08/02/25 08:15

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 12:34       |
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 12:34       |
| Total/NA  | Prep       | SHAKE        |     |                 | 31610        | JM      | EET ALB | 08/05/25 12:23       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31680        | EM      | EET ALB | 08/06/25 20:48       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 16:30       |

Client Sample ID: BS25-03 4'

Lab Sample ID: 885-30118-3

Date Collected: 07/31/25 09:55

Matrix: Solid

Date Received: 08/02/25 08:15

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 12:56       |
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 12:56       |
| Total/NA  | Prep       | SHAKE        |     |                 | 31610        | JM      | EET ALB | 08/05/25 12:23       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31680        | EM      | EET ALB | 08/06/25 21:12       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 16:40       |

Client Sample ID: BS25-04 2'

Lab Sample ID: 885-30118-4

Date Collected: 07/31/25 10:00

Matrix: Solid

Date Received: 08/02/25 08:15

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 13:18       |

Eurofins Albuquerque

Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 4 Federal #003

Job ID: 885-30118-1

**Client Sample ID: BS25-04 2'**  
**Date Collected: 07/31/25 10:00**  
**Date Received: 08/02/25 08:15**

**Lab Sample ID: 885-30118-4**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 13:18       |
| Total/NA  | Prep       | SHAKE        |     |                 | 31678        | BZR     | EET ALB | 08/06/25 09:44       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31660        | EM      | EET ALB | 08/06/25 15:28       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 16:51       |

**Client Sample ID: BS25-05 2'**  
**Date Collected: 07/31/25 10:02**  
**Date Received: 08/02/25 08:15**

**Lab Sample ID: 885-30118-5**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 13:40       |
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 13:40       |
| Total/NA  | Prep       | SHAKE        |     |                 | 31678        | BZR     | EET ALB | 08/06/25 09:44       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31660        | EM      | EET ALB | 08/06/25 18:00       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 17:01       |

**Client Sample ID: BS25-06 1'**  
**Date Collected: 07/31/25 10:10**  
**Date Received: 08/02/25 08:15**

**Lab Sample ID: 885-30118-6**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 14:01       |
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 14:01       |
| Total/NA  | Prep       | SHAKE        |     |                 | 31678        | BZR     | EET ALB | 08/06/25 09:44       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31660        | EM      | EET ALB | 08/06/25 18:11       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 17:11       |

**Client Sample ID: BS25-07 0'**  
**Date Collected: 07/31/25 13:25**  
**Date Received: 08/02/25 08:15**

**Lab Sample ID: 885-30118-7**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 14:23       |
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 14:23       |

Eurofins Albuquerque

Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 4 Federal #003

Job ID: 885-30118-1

**Client Sample ID: BS25-07 0'**  
**Date Collected: 07/31/25 13:25**  
**Date Received: 08/02/25 08:15**

**Lab Sample ID: 885-30118-7**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | SHAKE        |     |                 | 31678        | BZR     | EET ALB | 08/06/25 09:44       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31660        | EM      | EET ALB | 08/06/25 18:22       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 17:42       |

**Client Sample ID: BS25-08 0'**  
**Date Collected: 07/31/25 13:30**  
**Date Received: 08/02/25 08:15**

**Lab Sample ID: 885-30118-8**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 14:45       |
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 14:45       |
| Total/NA  | Prep       | SHAKE        |     |                 | 31678        | BZR     | EET ALB | 08/06/25 09:44       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31660        | EM      | EET ALB | 08/06/25 18:34       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 17:53       |

**Client Sample ID: BS25-09 0'**  
**Date Collected: 07/31/25 13:35**  
**Date Received: 08/02/25 08:15**

**Lab Sample ID: 885-30118-9**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 15:07       |
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 15:07       |
| Total/NA  | Prep       | SHAKE        |     |                 | 31678        | BZR     | EET ALB | 08/06/25 09:44       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31660        | EM      | EET ALB | 08/06/25 18:45       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 18:03       |

**Client Sample ID: WS25-01 0-4'**  
**Date Collected: 07/31/25 09:35**  
**Date Received: 08/02/25 08:15**

**Lab Sample ID: 885-30118-10**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 15:29       |
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 15:29       |
| Total/NA  | Prep       | SHAKE        |     |                 | 31678        | BZR     | EET ALB | 08/06/25 09:44       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31660        | EM      | EET ALB | 08/06/25 18:56       |

Eurofins Albuquerque

## Lab Chronicle

Client: Vertex

Job ID: 885-30118-1

Project/Site: North Pure Gold 4 Federal #003

Client Sample ID: WS25-01 0-4'

Lab Sample ID: 885-30118-10

Date Collected: 07/31/25 09:35

Matrix: Solid

Date Received: 08/02/25 08:15

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 18:14       |

Client Sample ID: WS25-02 0-4'

Lab Sample ID: 885-30118-11

Date Collected: 07/31/25 09:40

Matrix: Solid

Date Received: 08/02/25 08:15

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 16:13       |
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 16:13       |
| Total/NA  | Prep       | SHAKE        |     |                 | 31678        | BZR     | EET ALB | 08/06/25 09:44       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31660        | EM      | EET ALB | 08/06/25 19:18       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 18:24       |

Client Sample ID: WS25-03 0-4'

Lab Sample ID: 885-30118-12

Date Collected: 07/31/25 09:43

Matrix: Solid

Date Received: 08/02/25 08:15

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 16:35       |
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 16:35       |
| Total/NA  | Prep       | SHAKE        |     |                 | 31678        | BZR     | EET ALB | 08/06/25 09:44       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31660        | EM      | EET ALB | 08/06/25 19:29       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 18:34       |

Client Sample ID: WS25-04 2-4'

Lab Sample ID: 885-30118-13

Date Collected: 07/31/25 09:45

Matrix: Solid

Date Received: 08/02/25 08:15

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 16:57       |
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 16:57       |
| Total/NA  | Prep       | SHAKE        |     |                 | 31678        | BZR     | EET ALB | 08/06/25 09:44       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31660        | EM      | EET ALB | 08/06/25 19:40       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 18:45       |

Eurofins Albuquerque

Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 4 Federal #003

Job ID: 885-30118-1

**Client Sample ID: WS25-05 0-2'**  
**Date Collected: 07/31/25 10:05**  
**Date Received: 08/02/25 08:15**

**Lab Sample ID: 885-30118-14**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 17:19       |
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 17:19       |
| Total/NA  | Prep       | SHAKE        |     |                 | 31678        | BZR     | EET ALB | 08/06/25 09:44       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31660        | EM      | EET ALB | 08/06/25 19:51       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 18:55       |

**Client Sample ID: WS25-06 0-1'**  
**Date Collected: 07/31/25 10:15**  
**Date Received: 08/02/25 08:15**

**Lab Sample ID: 885-30118-15**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31691        | AT      | EET ALB | 08/06/25 17:41       |
| Total/NA  | Prep       | 5030C        |     |                 | 31533        | KLS     | EET ALB | 08/04/25 16:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 31692        | AT      | EET ALB | 08/06/25 17:41       |
| Total/NA  | Prep       | SHAKE        |     |                 | 31678        | BZR     | EET ALB | 08/06/25 09:44       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 31680        | EM      | EET ALB | 08/06/25 16:02       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 31578        | RC      | EET ALB | 08/05/25 09:31       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 31568        | RC      | EET ALB | 08/05/25 19:05       |

**Laboratory References:**  
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex  
Project/Site: North Pure Gold 4 Federal #003

Job ID: 885-30118-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority                                                                                                                                                                                             | Program     | Identification Number | Expiration Date                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|--------------------------------------|
| New Mexico                                                                                                                                                                                            | State       | NM9425, NM0901        | 02-27-26                             |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. |             |                       |                                      |
| Analysis Method                                                                                                                                                                                       | Prep Method | Matrix                | Analyte                              |
| 300.0                                                                                                                                                                                                 | 300_Prep    | Solid                 | Chloride                             |
| 8015M/D                                                                                                                                                                                               | 5030C       | Solid                 | Gasoline Range Organics (GRO)-C6-C10 |
| 8015M/D                                                                                                                                                                                               | SHAKE       | Solid                 | Diesel Range Organics [C10-C28]      |
| 8015M/D                                                                                                                                                                                               | SHAKE       | Solid                 | Motor Oil Range Organics [C28-C40]   |
| 8021B                                                                                                                                                                                                 | 5030C       | Solid                 | Benzene                              |
| 8021B                                                                                                                                                                                                 | 5030C       | Solid                 | Ethylbenzene                         |
| 8021B                                                                                                                                                                                                 | 5030C       | Solid                 | Toluene                              |
| 8021B                                                                                                                                                                                                 | 5030C       | Solid                 | Xylenes, Total                       |
| Oregon                                                                                                                                                                                                | NELAP       | NM100001              | 02-26-26                             |



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109 885-30118 COC

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

## Analysis Request

| Chain-of-Custody Record                                                              |        |                  |              | Turn-Around Time:                                                                       |                   |          |      |
|--------------------------------------------------------------------------------------|--------|------------------|--------------|-----------------------------------------------------------------------------------------|-------------------|----------|------|
| Client:                                                                              | Vertex |                  |              | X 48-hour Rush                                                                          |                   |          |      |
| (direct bill to Devon, work order 1005351001)                                        |        |                  |              | Project Name:                                                                           |                   |          |      |
| Mailing Address:                                                                     |        |                  |              | North Pure Gold 4 Federal #003                                                          |                   |          |      |
|                                                                                      |        |                  |              | Project #:                                                                              |                   |          |      |
| Phone #:                                                                             |        |                  |              | 25A-01170                                                                               |                   |          |      |
| email or Fax#:                                                                       |        |                  |              | Project Manager:                                                                        |                   |          |      |
| QA/QC Package:                                                                       |        |                  |              | Kent Stallings                                                                          |                   |          |      |
| <input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation) |        |                  |              | <a href="mailto:kstallings@vertexresource.com">kstallings@vertexresource.com</a>        |                   |          |      |
| Accreditation: <input type="checkbox"/> Az Compliance                                |        |                  |              | Sampler: L. Pullman                                                                     |                   |          |      |
| <input type="checkbox"/> NELAC <input type="checkbox"/> Other                        |        |                  |              | On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>Atty</b> |                   |          |      |
| <input type="checkbox"/> EDD (Type)                                                  |        |                  |              | # of Coolers: <b>1</b>                                                                  |                   |          |      |
|                                                                                      |        |                  |              | Cooler Temp (including CF): <b>1.3-0.2=1.1"</b>                                         |                   |          |      |
| Date                                                                                 | Time   | Matrix           | Sample Name  | Container Type and #                                                                    | Preservative Type | HEAL No. |      |
| 07.31.25                                                                             | 9:50   | Soil             | BS25-01 4'   | 1, 4oz jar                                                                              |                   |          |      |
| 07.31.25                                                                             | 9:53   | Soil             | BS25-02 4'   | 1, 4oz jar                                                                              |                   |          |      |
| 07.31.25                                                                             | 9:55   | Soil             | BS25-03 4'   | 1, 4oz jar                                                                              |                   |          |      |
| 07.31.25                                                                             | 10:00  | Soil             | BS25-04 2'   | 1, 4oz jar                                                                              |                   |          |      |
| 07.31.25                                                                             | 10:02  | Soil             | BS25-05 2'   | 1, 4oz jar                                                                              |                   |          |      |
| 07.31.25                                                                             | 10:10  | Soil             | BS25-06 1'   | 1, 4oz jar                                                                              |                   |          |      |
| 07.31.25                                                                             | 13:25  | Soil             | BS25-07 0'   | 1, 4oz jar                                                                              |                   |          |      |
| 07.31.25                                                                             | 13:30  | Soil             | BS25-08 0'   | 1, 4oz jar                                                                              |                   |          |      |
| 07.31.25                                                                             | 13:35  | Soil             | BS25-09 0'   | 1, 4oz jar                                                                              |                   |          |      |
| 07.31.25                                                                             | 9:35   | Soil             | WS25-01 0-4' | 1, 4oz jar                                                                              |                   |          |      |
| 07.31.25                                                                             | 9:40   | Soil             | WS25-02 0-4' | 1, 4oz jar                                                                              |                   |          |      |
| 07.31.25                                                                             | 9:43   | Soil             | WS25-03 0-4' | 1, 4oz jar                                                                              |                   |          |      |
| Date:                                                                                | Time:  | Relinquished by: |              | Received by:                                                                            | Via:              | Date     | Time |
| 8/3/25                                                                               | 07:00  | L. Pullman       |              | Stallings                                                                               | cdm               | 8/1/25   | 7:00 |
| Date:                                                                                | Time:  | Relinquished by: |              | Received by:                                                                            | Via:              | Date     | Time |
| 8/1/25                                                                               | 19:00  | L. Pullman       |              |                                                                                         |                   | 8/2/25   | 8:15 |

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

| Chain-of-Custody Record                                                                                             |       |                  |              |                                                                                          |                   |                | Turn-Around Time: |       |       |
|---------------------------------------------------------------------------------------------------------------------|-------|------------------|--------------|------------------------------------------------------------------------------------------|-------------------|----------------|-------------------|-------|-------|
| Client:                                                                                                             |       | Vertex           |              |                                                                                          |                   | X 48-hour Rush |                   |       |       |
| (direct bill to Devon, work order 1005351001)                                                                       |       |                  |              | Project Name:                                                                            |                   |                |                   |       |       |
| Mailing Address:                                                                                                    |       |                  |              | North Pure Gold 4 Federal #003                                                           |                   |                |                   |       |       |
|                                                                                                                     |       |                  |              | Project #:                                                                               |                   |                |                   |       |       |
| Phone #:                                                                                                            |       |                  |              | 25A-01170                                                                                |                   |                |                   |       |       |
| email or Fax#:                                                                                                      |       |                  |              | Project Manager:                                                                         |                   |                |                   |       |       |
| QA/QC Package:                                                                                                      |       |                  |              | Kent Stallings                                                                           |                   |                |                   |       |       |
| <input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)                                |       |                  |              | <a href="mailto:kstallings@vertexresource.com">kstallings@vertexresource.com</a>         |                   |                |                   |       |       |
| Accreditation: <input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other |       |                  |              | Sampler: L. Pullman                                                                      |                   |                |                   |       |       |
| <input type="checkbox"/> EDD (Type) _____                                                                           |       |                  |              | On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>Abbey</b> |                   |                |                   |       |       |
|                                                                                                                     |       |                  |              | # of Coolers: <b>1</b>                                                                   |                   |                |                   |       |       |
|                                                                                                                     |       |                  |              | Cooler Temp (including CF): <b>1.3 - 0.2 ± 1.1"</b>                                      |                   |                |                   |       |       |
| Date                                                                                                                | Time  | Matrix           | Sample Name  | Container Type and #                                                                     | Preservative Type | HEAL No.       |                   |       |       |
| 07.31.25                                                                                                            | 9:45  | Soil             | WS25-04 2-4' | 1, 4oz jar                                                                               |                   |                |                   |       |       |
| 07.31.25                                                                                                            | 10:05 | Soil             | WS25-05 0-2' | 1, 4oz jar                                                                               |                   |                |                   |       |       |
| 07.31.25                                                                                                            | 10:15 | Soil             | WS25-06 0-1' | 1, 4oz jar                                                                               |                   |                |                   |       |       |
|                                                                                                                     |       |                  |              |                                                                                          |                   |                |                   |       |       |
|                                                                                                                     |       |                  |              |                                                                                          |                   |                |                   |       |       |
|                                                                                                                     |       |                  |              |                                                                                          |                   |                |                   |       |       |
|                                                                                                                     |       |                  |              |                                                                                          |                   |                |                   |       |       |
|                                                                                                                     |       |                  |              |                                                                                          |                   |                |                   |       |       |
|                                                                                                                     |       |                  |              |                                                                                          |                   |                |                   |       |       |
|                                                                                                                     |       |                  |              |                                                                                          |                   |                |                   |       |       |
|                                                                                                                     |       |                  |              |                                                                                          |                   |                |                   |       |       |
|                                                                                                                     |       |                  |              |                                                                                          |                   |                |                   |       |       |
|                                                                                                                     |       |                  |              |                                                                                          |                   |                |                   |       |       |
| Date:                                                                                                               | Time: | Relinquished by: | Received by: |                                                                                          |                   |                | Via:              | Date: | Time: |
| 8-12S                                                                                                               | 07:00 | [Signature]      | [Signature]  |                                                                                          |                   |                | 8/1/25            | 7:00  |       |
| Date:                                                                                                               | Time: | Relinquished by: | Received by: |                                                                                          |                   |                | Via:              | Date: | Time: |
| 8/1/25                                                                                                              | 19:00 | [Signature]      | [Signature]  |                                                                                          |                   |                | 8/1/25            | 8:15  |       |

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.

## Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-30118-1

Login Number: 30118

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 504892

**QUESTIONS**

|                                                                                  |                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                                             |
|                                                                                  | Action Number:<br>504892                                                    |
|                                                                                  | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

|                      |                                                      |
|----------------------|------------------------------------------------------|
| <b>Prerequisites</b> |                                                      |
| Incident ID (n#)     | nAB1519733009                                        |
| Incident Name        | NAB1519733009 NORTH PURE GOLD 4 FED 3 @ 30-015-35702 |
| Incident Type        | Produced Water Release                               |
| Incident Status      | Remediation Closure Report Received                  |
| Incident Well        | [30-015-35702] NORTH PURE GOLD 4 FEDERAL #003        |

**Location of Release Source**

Please answer all the questions in this group.

|                         |                         |
|-------------------------|-------------------------|
| Site Name               | NORTH PURE GOLD 4 FED 3 |
| Date Release Discovered | 07/11/2015              |
| Surface Owner           | Federal                 |

**Incident Details**

Please answer all the questions in this group.

|                                                                                                      |                        |
|------------------------------------------------------------------------------------------------------|------------------------|
| Incident Type                                                                                        | Produced Water Release |
| 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                     |

**Nature and Volume of Release**

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.

|                                                                                                                                                      |                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Crude Oil Released (bbls) Details                                                                                                                    | Cause: Fire   Tank (Any)   Crude Oil   Released: 5 BBL   Recovered: 2 BBL   Lost: 3 BBL.            |
| Produced Water Released (bbls) Details                                                                                                               | Cause: Fire   Tank (Any)   Produced Water   Released: 400 BBL   Recovered: 254 BBL   Lost: 146 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l                                                                                  | Yes                                                                                                 |
| 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.                                                                                       |

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 504892

**QUESTIONS (continued)**

|                                                                                  |                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                                             |
|                                                                                  | Action Number:<br>504892                                                    |
|                                                                                  | 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)                                                                               | No, according to supplied volumes this does not appear to be a "gas only" report.                                                                                                                                                            |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC                                                                                  | Yes                                                                                                                                                                                                                                          |
| Reasons why this would be considered a submission for a notification of a major release                                                                 | From paragraph A. "Major release" determine using:<br>(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more;<br>(2) an unauthorized release of a volume that:<br>(a) results in a fire or is the result of a fire. |
| 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. |                                                                                                                                                                                                                                              |

**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                                                                         | True          |
| The impacted area has been secured to protect human health and the environment                                     | True          |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True          |
| All free liquids and recoverable materials have been removed and managed appropriately                             | True          |
| If all the actions described above have not been undertaken, explain why                                           | Not answered. |

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: Roni Kidd<br>Title: Business Manager<br>Email: rkidd@buckhornproduction.com<br>Date: 09/10/2025 |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------|

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 3

Action 504892

**QUESTIONS (continued)**

|                                                                                  |                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                                             |
|                                                                                  | Action Number:<br>504892                                                    |
|                                                                                  | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

|                                                                                                                                                                                                                                                      |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>Site Characterization</b>                                                                                                                                                                                                                         |                         |
| <i>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.</i> |                         |
| 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                                                                                                                                                                                          | Direct Measurement      |
| 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 ½ and 1 (mi.)   |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)                                                                                                                                                                    | Between ½ and 1 (mi.)   |
| An occupied permanent residence, school, hospital, institution, or church                                                                                                                                                                            | Between 1 and 5 (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 ½ and 1 (mi.)   |
| A subsurface mine                                                                                                                                                                                                                                    | Greater than 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                      |

|                                                                                                                                                                                                                                                                                                                                                                                       |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>Remediation Plan</b>                                                                                                                                                                                                                                                                                                                                                               |            |
| <i>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.</i>                                                                                                                                                                                      |            |
| Requesting a remediation plan approval with this submission                                                                                                                                                                                                                                                                                                                           | Yes        |
| <i>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.</i>                                                                                                                                                                        |            |
| Have the lateral and vertical extents of contamination been fully delineated                                                                                                                                                                                                                                                                                                          | Yes        |
| Was this release entirely contained within a lined containment area                                                                                                                                                                                                                                                                                                                   | No         |
| <b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)                                                                                                                                                                                                                                                                     |            |
| Chloride (EPA 300.0 or SM4500 Cl B)                                                                                                                                                                                                                                                                                                                                                   | 4200       |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)                                                                                                                                                                                                                                                                                                                                           | 166        |
| GRO+DRO (EPA SW-846 Method 8015M)                                                                                                                                                                                                                                                                                                                                                     | 110        |
| BTEX (EPA SW-846 Method 8021B or 8260B)                                                                                                                                                                                                                                                                                                                                               | 0          |
| Benzene (EPA SW-846 Method 8021B or 8260B)                                                                                                                                                                                                                                                                                                                                            | 0          |
| <i>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>                                                                        |            |
| On what estimated date will the remediation commence                                                                                                                                                                                                                                                                                                                                  | 04/15/2025 |
| On what date will (or did) the final sampling or liner inspection occur                                                                                                                                                                                                                                                                                                               | 07/15/2025 |
| On what date will (or was) the remediation complete(d)                                                                                                                                                                                                                                                                                                                                | 07/15/2025 |
| What is the estimated surface area (in square feet) that will be reclaimed                                                                                                                                                                                                                                                                                                            | 1083       |
| What is the estimated volume (in cubic yards) that will be reclaimed                                                                                                                                                                                                                                                                                                                  | 161        |
| What is the estimated surface area (in square feet) that will be remediated                                                                                                                                                                                                                                                                                                           | 1083       |
| What is the estimated volume (in cubic yards) that will be remediated                                                                                                                                                                                                                                                                                                                 | 161        |
| <i>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.</i>                                                                                                                                                                                |            |
| <i>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.</i> |            |

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 4

Action 504892

**QUESTIONS (continued)**

|                                                                                  |                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                                             |
|                                                                                  | Action Number:<br>504892                                                    |
|                                                                                  | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Remediation Plan (continued)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                       |
| <i>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.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                       |
| <b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                       |
| <i>(Select all answers below that apply.)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                       |
| (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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | FEEM0112334510 HALFWAY DISPOSAL AND LANDFILL                                                          |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                    |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No                                                                                                    |
| (Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No                                                                                                    |
| (In Situ) Soil Vapor Extraction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No                                                                                                    |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No                                                                                                    |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No                                                                                                    |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                    |
| Ground Water Abatement pursuant to 19.15.30 NMAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No                                                                                                    |
| OTHER (Non-listed remedial process)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No                                                                                                    |
| <i>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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                       |
| 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: Roni Kidd<br>Title: Business Manager<br>Email: rkidd@buckhornproduction.com<br>Date: 09/10/2025 |
| <i>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.</i>                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                       |

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 5

Action 504892

**QUESTIONS (continued)**

|                                                                                  |                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                                             |
|                                                                                  | Action Number:<br>504892                                                    |
|                                                                                  | 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 |

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 6

Action 504892

**QUESTIONS (continued)**

|                                                                                  |                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                                             |
|                                                                                  | Action Number:<br>504892                                                    |
|                                                                                  | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

| Sampling Event Information                                                                      |            |
|-------------------------------------------------------------------------------------------------|------------|
| Last sampling notification (C-141N) recorded                                                    | 489602     |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 07/31/2025 |
| What was the (estimated) number of samples that were to be gathered                             | 7          |
| What was the sampling surface area in square feet                                               | 1300       |

| Remediation Closure Request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Yes                                                                                                   |
| Have the lateral and vertical extents of contamination been fully delineated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Yes                                                                                                   |
| Was this release entirely contained within a lined containment area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No                                                                                                    |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Yes                                                                                                   |
| What was the total surface area (in square feet) remediated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1012                                                                                                  |
| What was the total volume (cubic yards) remediated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 104                                                                                                   |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Yes                                                                                                   |
| What was the total surface area (in square feet) reclaimed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1012                                                                                                  |
| What was the total volume (in cubic yards) reclaimed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 104                                                                                                   |
| Summarize any additional remediation activities not included by answers (above)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | As detailed in attached report                                                                        |
| <i>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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                       |
| 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: Roni Kidd<br>Title: Business Manager<br>Email: rkidd@buckhornproduction.com<br>Date: 09/10/2025 |

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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 504892

QUESTIONS (continued)

|                                                                                      |                                                                                 |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Operator:<br><br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br><br>10155                                                             |
|                                                                                      | Action Number:<br><br>504892                                                    |
|                                                                                      | Action Type:<br><br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

|                                                                                       |    |
|---------------------------------------------------------------------------------------|----|
| Reclamation Report                                                                    |    |
| Only answer the questions in this group if all reclamation steps have been completed. |    |
| Requesting a reclamation approval with this submission                                | No |

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 504892

CONDITIONS

|                                                                                  |                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                                             |
|                                                                                  | Action Number:<br>504892                                                    |
|                                                                                  | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

CONDITIONS

| Created By   | Condition                                                                                                                                                                                                                                                              | Condition Date |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| scott.rogers | Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations. | 11/4/2025      |