



Incident Number: nAB1918631481

Release Assessment and Deferral

North Pure Gold 9 Federal #001

Section 09, Township 23 South, Range 31 East

API: 30-015-27178

County: Eddy

Vertex File Number: 25A-01165

Prepared for:

Devon Energy Production Company, LP

Prepared by:

Vertex Resource Services Inc.

Date:

May 2025

Devon Energy Production Company, LP
North Pure Gold 9 Federal #001

Release Assessment and Deferral
May 2025

Release Assessment and Deferral
North Pure Gold 9 Federal #001
Section 09, Township 23 South, Range 31 East
API: 30-015-27178
County: Eddy

Prepared for:

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1.0 Introduction

Devon Energy Production Company, LP (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Deferral for a produced water that occurred on December 9, 2018, at North Pure Gold 9 Federal #001 API 30-015-27178 (hereafter referred to as the "site"). Devon submitted initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 2 on April 4, 2019. Incident ID number nAB1918631481 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

NMOCD Incident nAB1918631481 (2RP-5509) occurred on December 9, 2018, when the tanks overflowed due to weather-induced controller communication failure. The incident was reported on April 4, 2019. According to the C-141 the release involved 229 barrels (bbl) of produced water around the tanks. Approximately 220 bbl of produced water was recovered during the initial clean-up.

3.0 Site Characteristics

The site is located approximately 18 miles east of Loving, New Mexico. The legal location for the site is Section 09, 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 southwest of the constructed pad (Figure 1).

The surrounding landscape is associated with terraces, piedmonts, dune fields, and upland plains with elevations ranging between 2,842 and 4,500 feet. The climate is semiarid with average annual precipitation ranging between 8 and 13 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be Deep Sand. Dropseeds, threeawns, and bluegrasses dominate the historical plant community with shinnery oak and soapweed yucca (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Limited to no vegetation is allowed to grow on the compacted production pad and access road.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2025) indicates the site's surface geology primarily comprises Qep - Eolian and piedmont deposits. Predominant soil texture on the site is fine sand (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Additional soil characteristics include a drainage class of very high with negligible runoff. The karst geology potential for the site is low (United States Department of the Interior, Bureau of Land Management, 2018).

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4.0 Closure Criteria Determination

The most comprehensive depth to groundwater reference to the site is an exploratory borehole advanced 0.27 miles to the west on December 13, 2023. The borehole was terminated at 105 feet below ground surface (bgs) without encountering the water surface (New Mexico Office of the State Engineer, 2025). Information pertaining to the depth to ground water determination is included in Appendix B.

The nearest active well to the site is a United States Department of Energy monitoring well located approximately 1.29 miles north of the site (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 1.13 miles north 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. Further information supporting closure criteria determination is included in Appendix B and below in Table 1.

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Table 1. Closure Criteria Determination			
Site Name: North Pure Gold 9 Federal #001			
Spill Coordinates: 32.3125916,-103.7849503		X: 614381	Y: 3575733
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	>55	feet
	Distance between release and nearest DTGW reference	81	feet
		0.02	miles
	Date of nearest DTGW reference measurement	March 9, 2023	
1	Depth to Groundwater (next nearest reference)	>105	feet
	Distance between release and nearest DTGW reference	1,429	feet
		0.27	miles
	Date of nearest DTGW reference measurement	December 13, 2023	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	5,965	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	5,916	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	9,145	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	7,199	feet
	ii) Within 1000 feet of any fresh water well or spring	6,821	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	5,881	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	34,074	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest High Karst	13,768	feet
10	Within a 100-year Floodplain	>500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	39,500	feet
11	Soil Type	Fine sand	
12	Ecological Classification	Deep sand	
13	Geology	Eolian and piedmont deposits	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'

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

Table 2. Closure Criteria for Soils Impacted by a Release		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
> 100 feet	Chloride	20,000 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

An initial site inspection of the release area was completed on April 6, 2019, which identified the area of the release around the tanks with notable staining encompassing the containment area and a visible “stain line” partway up the containment wall. The unlined earthen berm containment was undamaged at the time of initial inspection and containment capacity including tanks was conservatively greater than 400 bbl.

Characterization of the impacted area was completed by Vertex between May 12, 2019, and August 20, 2021, including vertical and horizontal delineation and a background borehole. Vertical delineation with a portable drill rig was terminated at the rig’s maximum depth of 22 feet bgs. Soil samples from vertical delineation borehole BH19-18 exceeded closure criteria to a depth of 18 feet bgs. The impacted area was determined to cover approximately 6,692 square feet based on characterization results as shown on Figure 1. Characterization sample locations and area of impact are presented on Figure 1 and laboratory results are summarized in Table 3. Daily field reports documenting characterization are included in Appendix C. Characterization and remediation of multiple incidents were executed at the same site at the same time. The Daily field reports and laboratory reports also contain information specific to other incidents that may be considered extraneous to this incident.

On April 9, 2020, Vertex oversaw treatment of the containment area with Remediate, an in-situ bioremediation product, to a depth of 2 feet bgs. The Remediate technical sheet is presented in Appendix F. On May 18, 2020, Vertex collected 10 five-point composite soil samples, each representative of no more than 200 square feet. The sampling schematic consisted of six base samples and four sidewall samples of the treatment area, as presented on Figure 2. It was determined that that an insufficient number of confirmation samples were collected from the bioremediation treatment area during the first confirmation sampling event given the total square footage of 6,901 square feet.

Supplemental confirmation samples were staged and collected on May 1, 2 and 7 2025. The additional 5-point composite confirmation base samples were collected from the bioremediation treatment and historical impact areas

by advancing five boreholes to 2 feet bgs, collecting discrete samples at depth, and creating a composite from each set of five samples. Composite borehole samples and corresponding sets of five discrete samples were collected over intervals of 200 square feet and were placed to cover the areas not included by the first confirmation sampling event. This method was used to collect 29 additional confirmation base samples. Samples were submitted to the 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). Confirmation sample locations are shown on Figure 2. Laboratory results for all borehole-derived confirmation samples collected are presented in Table 4, and the laboratory data reports are included in Appendix E. Notifications that confirmation samples were being collected are included in Appendix D.

A total of 39 confirmation samples were collected from the bioremediation treatment and historical impact areas between 2020 and 2025, and laboratory results for 23 of the samples were below closure criteria. Laboratory results for 16 confirmation samples exceeded closure criteria for DRO+GRO and TPH as shown on Figure 2. The bioremediation treatment was not effective at reducing hydrocarbon concentrations to below closure criteria since application in 2020.

Characterization and confirmation samples in exceedance of closure criteria were collected in close proximity to production and storage equipment. Removal of the tanks and associated infrastructure will be necessary to complete remediation of the containment area to closure criteria horizontally and vertically. The future excavation required to meet closure criteria will be 20 feet in depth and include the southwest portion of the containment area at borehole BH19-18. The “benching” required to maintain horizontal stability will result in horizontal expansion of the excavation to encompass the majority of the earthen berm containment area as proposed on Figure 3.

To maintain sidewall stability, the proposed excavations would be “benched” in increments of 4 feet to a total depth of 20 feet bgs are illustrated on Figure 3. The required excavation to 4 feet bgs at the surface would be expanded north to include the remaining containment and earthen berm. The proposed excavations would remove the residual impacted material beyond the edges of the original release bound by the earthen containment.

At time of site decommissioning, the excavation required to meet reclamation criteria will remove any residual release from the incident in question. The active tank battery and surrounding earthen containment can be deferred until the reclamation of the pad. Approximately 12,654 square feet and 1,876 cubic yards of material at the active facility pad will need to be removed to safely complete reclamation upon cessation of oilfield activities.

6.0 Closure Request

Vertex recommends no additional remedial action at this time to address the release at North Pure Gold 9 Federal #001 until the equipment on-site is decommissioned and removed. Laboratory analyses of the characterization samples collected outside the intact earthen berm containment showed constituent of concern concentration levels below NMOCD closure criteria for areas where depth to groundwater is greater than 100 feet bgs as shown in Table 2. There are no anticipated or imminent risks to human, ecological, or hydrological receptors associated with the release site including the proposed reclamation excavation area.

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On behalf of Devon Energy Production Company, LP., Vertex requests deferral of the containment area as the impacted material is localized to the area under and immediately surrounding the active storage tanks and associated infrastructure. The release has been delineated with the understanding final remediation and restoration of locations BS20-09, BS25-32, BS25-38 through BS25-41, BS25-45 through BS25-48, BS25-53 through BS25-57, and BS25-60 will result in excavation of the entire earthen containment area and beyond to maintain sidewall stability at a depth of 20 feet bgs as presented on Figure 3. The release will be deferred until such time as all oil and gas activities are terminated as per NMAC 19.15.29.12 and 19.15.29.13.

The proposed deferral area consists of 12,654 square feet encompassing the earthen containment, storage tanks and associated equipment. To meet NMOCD reclamation requirements, the area under the tank and the historical excavation area will be excavated to a depth of 20 feet bgs with "benches" in increments of 4 feet to maintain sidewall stability. The total proposed excavation including benching to support the interior sidewalls will require the removal of approximately 1,876 cubic yards of soil following equipment removal. The release was localized inside the earthen containment in immediate proximity to production equipment and infrastructure. Site deconstruction will be required to complete remediation of the release.

Vertex respectfully requests that incident nAB1918631481 be deferred until the production equipment is retired and removed prior to reclamation. Devon certifies that all information in this report and the attachments is correct, and that they have complied with all applicable requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain deferral on the December 9, 2018, release at North Pure Gold 9 Federal #001.

Should you have any questions or concerns, please do not hesitate to contact the Project Manager Sally Carttar at 575.361.3561 or SCarttar@vertexresource.com.

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7.0 References

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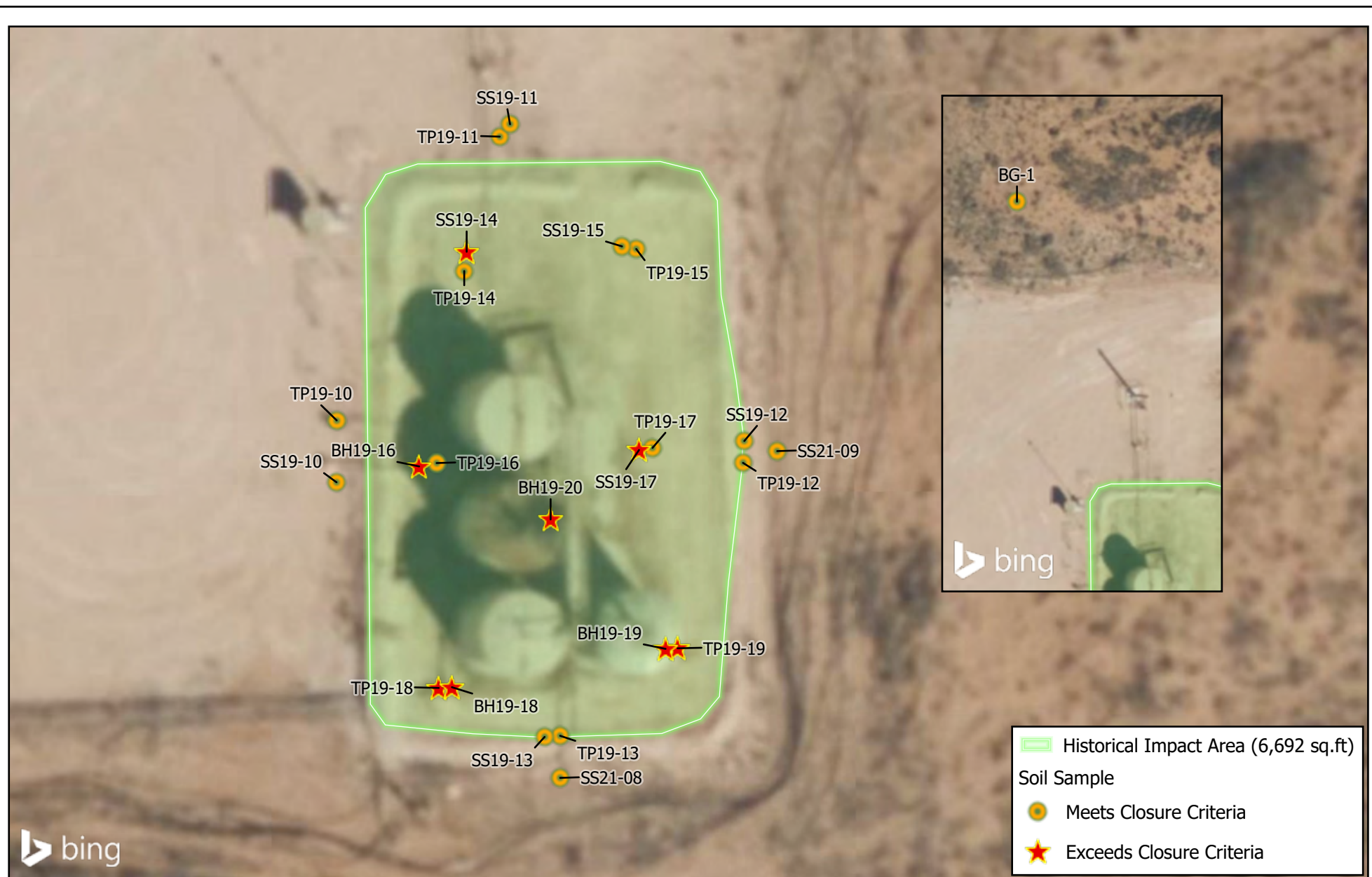
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8.0 Limitations

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) 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



0 15 30 ft
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.312394°N, 103.784497°W
Date: May 20/25



Characterization Sampling Site Schematic
Incident ID#: nAB1918631481
North Pure Gold 9 Federal #001

FIGURE:

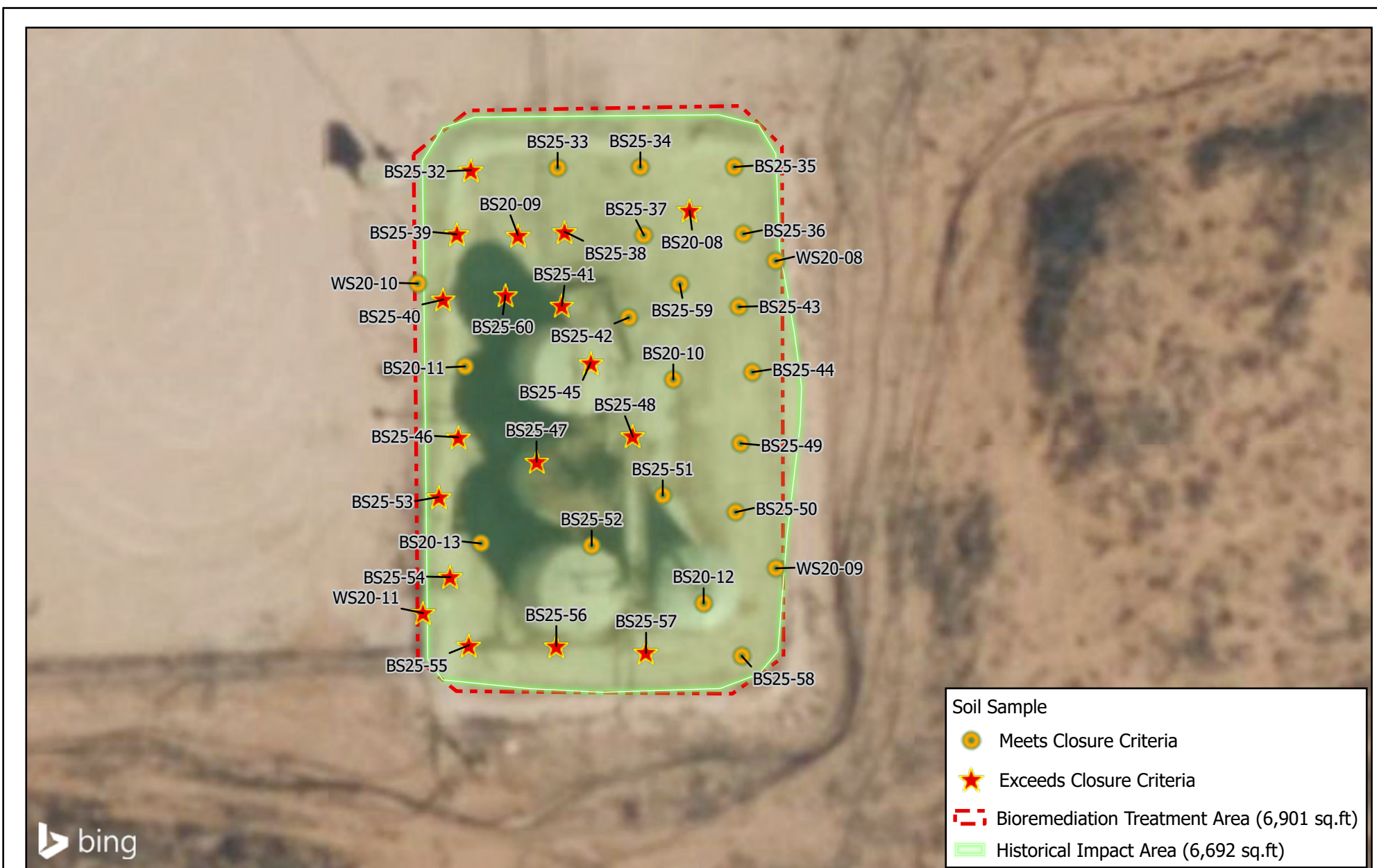
1



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

VERSATILITY. EXPERTISE.



Map Center:
Lat/Long: 32.312373°N, 103.784525°W
Date: May 20/25
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet



Confirmation Sample Locations
Incident ID#: nAB1918631481
North Pure Gold 9 Federal #001

FIGURE:

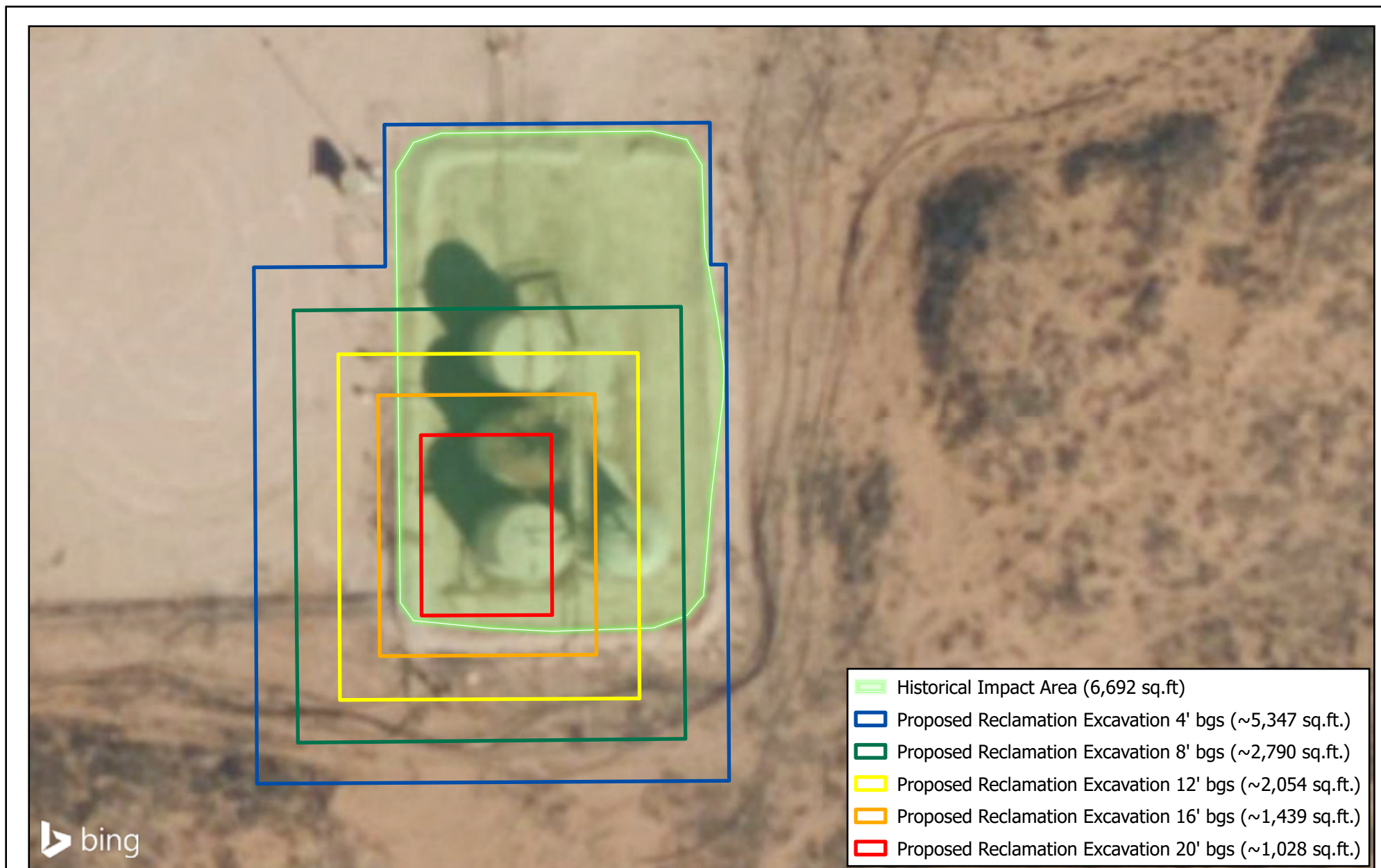
2



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.



0 15 30 ft

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.312357°N, 103.78448°W

Date: May 20/25

**Proposed Reclamation Excavation Schematic**

Incident ID#: nAB1918631481

North Pure Gold 9 Federal #001

FIGURE:

3



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: North Pure Gold 9 Federal #001

Site Name: 25A-01165

NMOCD Tracking #: nAB1918631481

Project #: 25A-01165

Lab Reports: 19031, 1907D74, and 2108C50

Table 3. Characterization Sample Laboratory Results

Table 3. Characterization Sample Laboratory Results										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	Chloride Concentration (mg/kg)
Depth to Groundwater >100 feet bgs										
SS19-10	0	July 24, 2019	ND	ND	ND	ND	ND	ND	ND	ND
TP19-10	1	May 12, 2019	ND	ND	ND	ND	ND	ND	ND	ND
SS19-11	0	July 24, 2019	ND	ND	ND	ND	ND	ND	ND	ND
TP19-11	1	May 12, 2019	ND	ND	ND	ND	ND	ND	ND	ND
SS19-12	0	July 24, 2019	ND	ND	ND	290	590	290	880	95
TP19-12	1	May 12, 2019	ND	ND	ND	ND	ND	ND	ND	ND
SS19-13	0	July 24, 2019	ND	ND	ND	240	500	240	740	110
TP19-13	1	May 12, 2019	ND	ND	ND	ND	ND	ND	ND	ND
SS19-14	0	July 24, 2019	ND	ND	ND	5,100	7,700	5,100	12,800	97
TP19-14	2	May 12, 2019	ND	ND	ND	ND	ND	ND	ND	3,100
SS19-15	0	July 24, 2019	ND	0.38	ND	170	280	170	450	ND
TP19-15	2	May 12, 2019	ND	ND	ND	ND	ND	ND	ND	ND
BH19-16	0	July 24, 2019	ND	ND	ND	18,000	13,000	18,000	31,000	1,600
	2	July 24, 2019	ND	ND	ND	12,000	9,600	12,000	21,600	6,800
	4	July 24, 2019	ND	91.5	2,000	8,300	2,500	10,300	12,800	200
TP19-16	6	May 12, 2019	ND	1.012	ND	216	ND	216	216	32
SS19-17	0	July 24, 2019	ND	ND	ND	3,800	5,100	3,800	8,900	1,400
TP19-17	2	May 12, 2019	ND	0.733	22.2	926	199	948.2	1147.2	144
BH19-18	0	July 24, 2019	ND	ND	ND	9,400	6,000	9,400	15,400	490
	2	July 24, 2019	ND	ND	ND	8,000	6,000	8,000	14,000	6,500
	4	July 24, 2019	ND	90.4	1,900	7,700	2,100	9,600	11,700	130
	6	July 24, 2019	ND	105.5	1,900	8,300	2,800	10,200	13,000	210
TP19-18	8	May 12, 2019	2.2	130.9	1,270	14,800	2,430	16,070	18,500	1,170
BH19-18	8	July 24, 2019	2.7	144.7	2,400	11,000	3,000	13,400	16,400	250
	10	July 24, 2019	3.2	153.2	2,300	11,000	3,300	13,300	16,600	410
	12	July 24, 2019	ND	141	2,100	13,000	4,000	15,100	19,100	720
	14	July 24, 2019	ND	94	1,700	9,400	2,900	11,100	14,000	800
	16	July 24, 2019	2.6	144.6	2,200	9,500	2,600	11,700	14,300	580
	18	July 24, 2019	ND	116	2,000	9,900	2,500	11,900	14,400	560
	20	July 24, 2019	ND	ND	19	480	240	499	739	580
	22	July 24, 2019	ND	0.29	39	920	360	959	1,319	560
BH19-19	0	July 24, 2019	ND	ND	ND	5,500	2,800	5,500	8,300	9,800
	2	July 24, 2019	ND	7.7	ND	7,700	3,300	7,700	11,000	81
	4	July 24, 2019	ND	8.6	ND	2,400	1,100	2,400	3,500	440
	6	July 24, 2019	ND	ND	ND	ND	ND	ND	ND	ND
TP19-19	8	May 12, 2019	ND	0.234	ND	1,210	294	1,210	1,504	259

Client Name: North Pure Gold 9 Federal #001

Site Name: 25A-01165

NMOCD Tracking #: nAB1918631481

Project #: 25A-01165

Lab Reports: 19031, 1907D74, and 2108C50

Table 3. Characterization Sample Laboratory Results										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable				Chloride Concentration	
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)		Total Petroleum Hydrocarbons (TPH)
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)
Depth to Groundwater >100 feet bgs										
BH19-20	0	July 24, 2019	ND	6.4	250	8,200	4,200	8,450	12,650	4,100
	2	July 24, 2019	ND	1.3	66	7,700	2,700	7,766	10,466	210
	4	July 24, 2019	ND	ND	7.4	600	330	607	937	ND
	6	July 24, 2019	ND	ND	ND	130	59	130	189	ND
SS21-08	0	August 20, 2021	ND	ND	ND	ND	ND	ND	ND	ND
SS21-09	0	August 20, 2021	ND	ND	ND	ND	ND	ND	ND	ND
BG-1	0	July 24, 2019	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 24, 2019	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

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

Client Name: North Pure Gold 9 Federal #001

Site Name: 25A-01165

NMOCD Tracking #: nAB1918631481

Project #: 25A-01165

Lab Reports: 2005854, 885-24275-1, and 885-24618-1

Table 4. Confirmation Sample Laboratory Results

Table 4. Confirmation Sample Laboratory Results										
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)	
Depth to Groundwater >100 feet bgs										
BS20-08	1-2	May 18, 2020	ND	ND	ND	850	1,100	850	1,950	ND
BS20-09	1-2	May 18, 2020	ND	ND	ND	2,300	3,700	2,300	6,000	ND
BS20-10	1-2	May 18, 2020	ND	ND	ND	ND	ND	ND	ND	4,000
BS20-11	1-2	May 18, 2020	ND	ND	ND	350	600	350	950	ND
BS20-12	1-2	May 18, 2020	ND	ND	ND	ND	ND	ND	ND	ND
BS20-13	1-2	May 18, 2020	ND	ND	ND	21	89	21	110	ND
BS25-32	2	May 2, 2025	ND	ND	ND	1,100	1,100	1,100	2,200	170
BS25-33	2	May 2, 2025	ND	ND	ND	230	350	230	580	120
BS25-34	2	May 2, 2025	ND	ND	ND	31	ND	31	31	100
BS25-35	2	May 2, 2025	ND	ND	ND	110	190	110	300	ND
BS25-36	2	May 2, 2025	ND	ND	ND	47	170	47	217	ND
BS25-37	2	May 2, 2025	ND	ND	ND	ND	ND	ND	ND	110
BS25-38	2	May 2, 2025	ND	ND	ND	1,200	1,200	1,200	2,400	ND
BS25-39	2	May 2, 2025	ND	0.82	75	2,600	2,400	2,675	5,075	180
BS25-40	2	May 2, 2025	ND	6.4	360	4,100	2,600	4,460	7,060	580
BS25-41	2	May 2, 2025	ND	4.06	370	4,700	3,300	5,070	8,370	ND
BS25-42	2	May 7, 2025	ND	ND	ND	250	260	250	510	250
BS25-43	2	May 2, 2025	ND	ND	ND	16	ND	16	16	ND
BS25-44	2	May 7, 2025	ND	ND	ND	76	170	76	246	ND
BS25-45	2	May 2, 2025	ND	1.25	130	4,900	4,000	5,030	9,030	ND
BS25-46	2	May 2, 2025	ND	1	60	2,800	2,700	2,860	5,560	160
BS25-47	2	May 7, 2025	ND	11.64	280	2,900	1,800	3,180	4,980	ND
BS25-48	2	May 2, 2025	ND	0.12	24	3,000	2,800	3,024	5,824	79
BS25-49	2	May 2, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-50	2	May 2, 2025	ND	ND	ND	15	ND	15	15	76
BS25-51	2	May 2, 2025	ND	ND	ND	18	ND	18	18	78
BS25-52	2	May 2, 2025	ND	ND	ND	550	730	550	1,280	ND
BS25-53	2	May 2, 2025	ND	3.034	160	3,300	1,200	3,460	4,660	1,300
BS24-54	2	May 2, 2025	ND	2.31	240	3,700	1,500	3,940	5,440	830
BS25-55	2	May 2, 2025	ND	0.35	71	2,900	1,300	2,971	4,271	410
BS25-56	2	May 2, 2025	ND	2.89	230	5,100	2,300	5,330	7,630	160
BS25-57	2	May 2, 2025	ND	ND	11	6,600	3,700	6,611	10,311	260
BS25-58	2	May 2, 2025	ND	ND	ND	840	720	840	1,560	160
BS25-59	2	May 2, 2025	ND	ND	ND	ND	59	ND	59	81
BS25-60	2	May 2, 2025	ND	9.73	260	4,900	2,300	5,160	7,460	67

Client Name: North Pure Gold 9 Federal #001

Site Name: 25A-01165

NMOCD Tracking #: nAB1918631481

Project #: 25A-01165

Lab Reports: 2005854, 885-24275-1, and 885-24618-1

Table 4. Confirmation Sample Laboratory Results										
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)	Chloride Concentration
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)			
Depth to Groundwater >100 feet bgs										
WS20-08	0-2	May 18, 2020	ND	ND	ND	ND	ND	ND	ND	ND
WS20-09	0-2	May 18, 2020	ND	ND	ND	ND	ND	ND	ND	ND
WS20-10	0-2	May 18, 2020	ND	ND	ND	ND	ND	ND	ND	120
WS20-11	0-2	May 18, 2020	ND	ND	ND	530	1,100	530	1,630	ND

"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 Report

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	NAB1918631481
District RP	2RP-5509
Facility ID	
Application ID	pAB1918629879

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Amanda T. Davis	Contact Telephone 575-748-0176
Contact email amanda.davis@dvn.com	Incident # (assigned by OCD) NAB1918631481
Contact mailing address 6488 Seven Rivers Hwy	

Location of Release Source

Latitude 32.3125916 Longitude -103.7849503
(NAD 83 in decimal degrees to 5 decimal places)

Site Name North Pure Gold 9 Fed 1H	Site Type Oil
Date Release Discovered 12/09/2018	API# (if applicable) 3001527178

Unit Letter	Section	Township	Range	County
N	09	23S	31E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 229	Volume Recovered (bbls) 220
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Water tanks ran over due to loss of communication from bad weather. Spill area 97'x55'x1/2" deep and 72'x55'x1/2" deep. All fluid stayed on well pad.

Form C-141

Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5509
Facility ID	
Application ID	pAB1918629879

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? This release is considered a major release because it is over the 25 BBLS.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

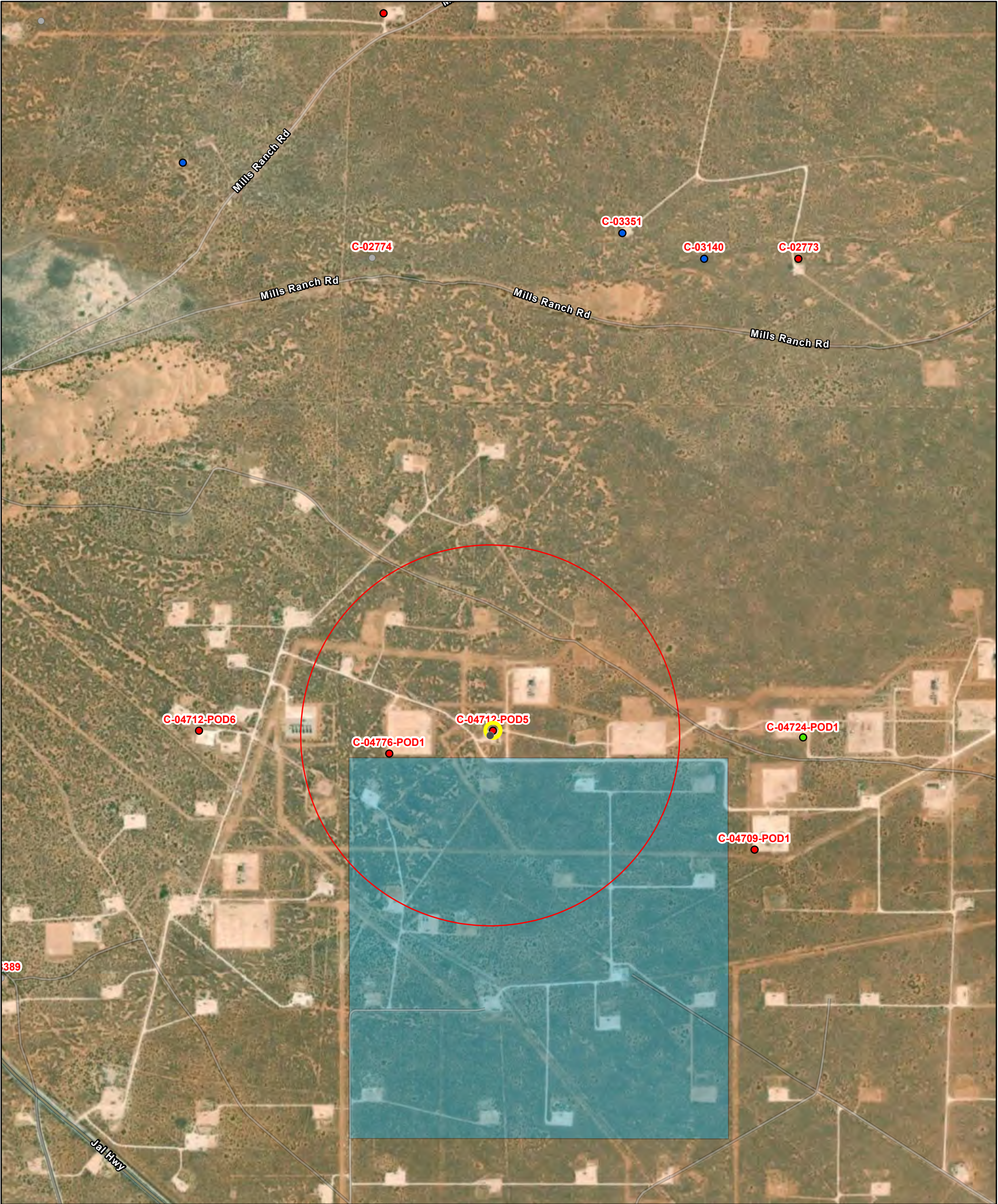
Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: The spill occurred outside of containment.	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Kendra DeHoyos</u> Signature: <u>Kendra DeHoyos</u> Kendra DeHoyos 2018.12.17 13:39:23 -07'00' email: <u>kendra.dehoyos@dvn.com</u>	Title: <u>EHS Associate</u> Date: <u>12/17/2018</u> Telephone: <u>575-748-3371</u>
<u>OCD Only</u> Received by: _____ Date: _____	

APPENDIX B – Closure Criteria Research Documentation

OSE POD 0.5 miles

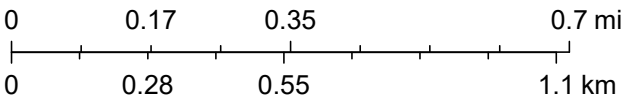


4/18/2025, 1:37:45 PM

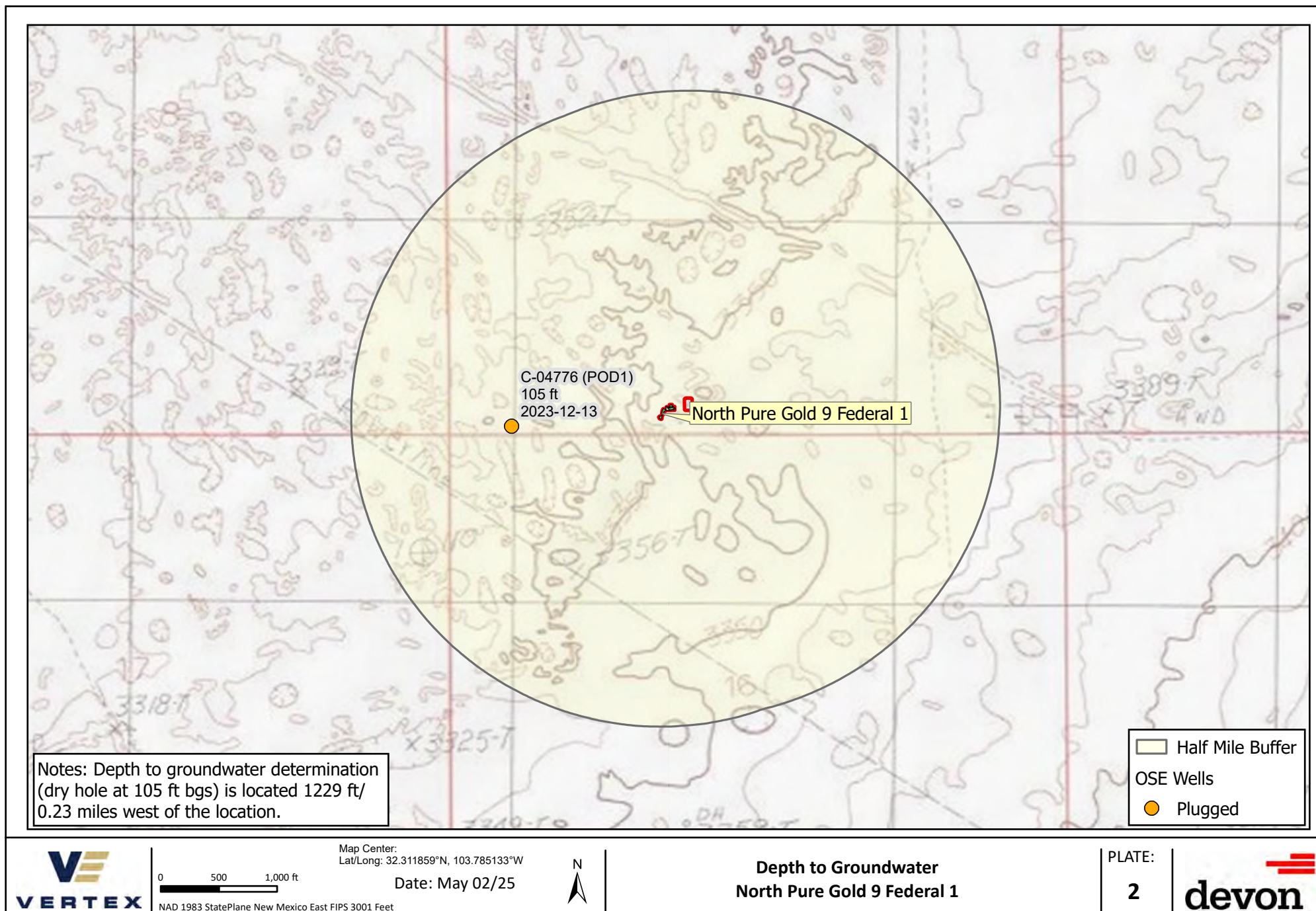
GIS WATERS PODs ●

- Active
- Pending
- 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, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



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.

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 smallest to largest)								(NAD83 UTM in meters)				(In feet)	(In feet)	(In feet)	
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 04712 POD5		CUB	ED	SE	SE	SW	09	23S	31E	614392.9	3575754.4		24	55		
C 04776 POD1		CUB	ED	SW	SW	SW	09	23S	31E	613953.1	3575651.8		435		105	
C 04709 POD1		CUB	ED	SW	NW	NW	15	23S	31E	615508.8	3575262.4		1222			
C 04712 POD6		CUB	ED	SW	SW	SE	08	23S	31E	613146.6	3575740.1		1234	55		
C 02774		CUB	ED	SW	NW	SW	04	23S	31E	613857.0	3577745.0 *		2079	1660		
C 03351		C	ED	SE	NW	SE	04	23S	31E	614916.6	3577861.1		2194	320	168	152
C 03140		CUB	ED	SE	NE	SE	04	23S	31E	615266.0	3577758.0 *		2209	684		
C 02773		CUB	ED	SE	NW	SW	03	23S	31E	615668.0	3577762.0 *		2402	880		
C 02777		CUB	ED	SE	SE	SE	10	23S	31E	616973.8	3575662.1		2593	890		
C 03749 POD1		CUB	ED		NE	NE	15	23S	31E	616973.8	3575662.1		2593	865	639	226
C 02664		CUB	ED	SW	SW	NE	05	23S	31E	613049.0	3578138.0 *		2749	4291	354	3937
C 02492		CUB	ED	SE	SE	SE	06	23S	31E	612056.0	3577320.0 *		2814	135	85	50
C 02865		CUB	ED	SE	SE	SE	06	23S	31E	612056.0	3577320.0 *		2814	174		
C 02492 POD2		C	ED	SW	NE	NE	07	23S	31E	611767.4	3576996.6		2903	400	125	275
C 04855 POD1		CUB	ED	NE	SW	SW	11	23S	31E	617417.6	3575936.7		3043	105		
C 04772 POD1		CUB	ED	NW	NW	NW	04	23S	31E	613895.0	3578780.5		3086	55		
C 02954 EXPL		CUB	ED	SW	NW	SE	20	23S	31E	613114.0	3572906.0 *		3097	905		
C 04712 POD4		CUB	ED	NW	SE	SW	14	23S	31E	617535.4	3574316.2		3457	55		
C 02776		CUB	ED	NE	NW	NW	05	23S	31E	612440.0	3578731.0 *		3571	661		
C 02767		CUB	ED	SE	NW	SE	33	22S	31E	614844.0	3579360.0 *		3656	785		
C 02768		CUB	ED	SE	NW	SE	33	22S	31E	614844.0	3579360.0 *		3656	787		
C 02725		CUB	ED	NW	NW	NW	05	23S	31E	612240.0	3578731.0 *		3684	532		
C 02775		CUB	ED	NW	NW	NW	05	23S	31E	612240.0	3578731.0 *		3684	529		
C 02769 POD2		CUB	ED	SE	NE	SE	33	22S	31E	615260.6	3579312.3		3685	753	428	325
C 02687		CUB	ED	SE	NE	SE	33	22S	31E	615246.0	3579364.0 *		3732	779		
C 03520 POD1		C	ED	SW	NW	NW	07	23S	31E	610732.6	3576905.8		3832	500		
C 02769		CUB	ED	NE	NE	SE	33	22S	31E	615246.0	3579564.0 *		3927	765		

(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 smallest to largest)				(NAD83 UTM in meters)				(In feet)		(In feet)		(In feet)	
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column					
C 03139		CUB	ED	SE	NE	SE	01	23S	30E	610424.0	3577764.0 *		4447	425							
C 04774 POD1		CUB	ED	SE	NE	NE	23	23S	31E	618456.0	3573856.4		4486	105							
C 03222 EXPLORE		CUB	ED	NW	NW	SE	12	23S	30E	609833.0	3576349.0 *		4589	365							
C 02417		CUB	ED	SE	SE	SE	29	22S	31E	613623.0	3580554.0 *		4880	681							
C 02757		CUB	ED	SE	SE	SE	28	22S	31E	615232.0	3580571.0 *		4912	4057							
														Average Depth to Water: 272 feet							
														Minimum Depth: 85 feet							
														Maximum Depth: 639 feet							

Record Count: 32

UTM Filters (in meters):

Easting: 614381
Northing: 3575733
Radius: 005000

* 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.

4/18/25 12:40 PM MST

Water Column/Average Depth to Water

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 04712 POD5	SE	SE	SW	09	23S	31E	614392.9	3575754.4	

* UTM location was derived from PLSS - see Help

Driller License:	1833	Driller Company:	VISION RESOURCES, INC		
Driller Name:	JASON MALEY				
Drill Start Date:	2023-03-09	Drill Finish Date:	2023-03-09	Plug Date:	2023-03-14
Log File Date:	2023-04-04	PCW Rcv Date:		Source:	
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	6.00	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



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

WR File Number: C 04712		Subbasin: CUB	Cross Reference:
Primary Purpose: MON MONITORING WELL			
Primary Status: PMT Permit			
Total Acres:		Subfile:	Header:
Total Diversion: 0.000		Cause/Case:	
Owner:	VERTEX RESOURCES	Owner Class:	Owner
Owner:	HARVARD PETROLEUM COMPANY LLC	Owner Class:	User
Contact:	JUSTIN WARREN		

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	743189	EXPL	2023-02-21	PMT	APR	C 04712 POD1-6	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
C 04712 POD1	NA		NW	SE	NW	31	23S	32E	620917.2	3570289.2		SDE
C 04712 POD2	NA		SE	SE	SE	17	23S	32E	623331.9	3574331.5		TOMCAT17
C 04712 POD3	NA		SE	NW	NE	24	23S	31E	619650.7	3573877.9		TODD24
C 04712 POD4	NA		NW	SE	SW	14	23S	31E	617535.4	3574316.2		TODD14
C 04712 POD5	NA		SE	SE	SW	09	23S	31E	614392.9	3575754.4		NPG9
C 04712 POD6	NA		SW	SW	SE	08	23S	31E	613146.6	3575740.1		NPG8

* 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.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) <u>C-04712 POD 5</u>		WELL TAG ID NO.		OSE FILE NO(S). <u>C-4712</u>		
	WELL OWNER NAME(S) <u>Harvard Petroleum Company</u>				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS <u>PO Box 936</u>				CITY <u>Reswell</u>	STATE <u>NM</u>	ZIP <u>88202</u>
	WELL LOCATION (FROM GPS)		DEGREES <u>32</u>	MINUTES <u>18</u>	SECONDS <u>46.0</u>	N	
	LONGITUDE <u>103</u>		<u>47</u>	<u>05.3</u>	W		* ACCURACY REQUIRED: ONE TENTH OF A SECOND * 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. <u>1833</u>		NAME OF LICENSED DRILLER <u>Jason Maley</u>		NAME OF WELL DRILLING COMPANY <u>Vision Resources</u>		
	DRILLING STARTED <u>3-9-23</u>	DRILLING ENDED <u>3-9-23</u>	DEPTH OF COMPLETED WELL (FT) <u>55</u>	BORE HOLE DEPTH (FT) <u>55</u>	DEPTH WATER FIRST ENCOUNTERED (FT) <u>Dry</u>		
	COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) <u>Dry</u>		DATE STATIC MEASURED <u>Dry</u>
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:				CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐		
	DEPTH (feet bgl) FROM TO		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)
<u>0 45</u>		<u>6"</u>	<u>2" PUC SH40</u>	<u>Thread</u>	<u>2"</u>	<u>SH40</u>	<u>—</u>
<u>45 55</u>		<u>6"</u>	<u>2" PUC SH40 (Screen)</u>	<u>Thread</u>	<u>2"</u>	<u>SH40</u>	<u>102</u>

3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE

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

FILE NO. <u>C-4712-POD 5</u>	POD NO. <u>5</u>	TRN NO. <u>743189</u>
LOCATION <u>Nمون 23.31.09.443</u>	WELL TAG ID NO. <u>—</u>	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
4. HYDROGEOLOGIC LOG OF WELL	0	20	20	White Caliche	Y (N)	
	20	45	25	Brown Fine Sand	Y (N)	
	45	55	10	Red Sandy Caliche	Y (N)	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): Dry
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION:					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:					
SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE						

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO.	C-4712-POD5	POD NO.	5
LOCATION		TRN NO.	743189
man 23.31.09.443		WELL TAG ID NO.	—
		PAGE 2 OF 2	

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 743189
File Nbr: C 04712
Well File Nbr: C 04712 POD5

Apr. 04, 2023

VERTEX RESOURCES
P.O. BOX 936
ROSWELL, NM 88202

Greetings:

The above numbered permit was issued in your name on 02/21/2023.

The Well Record was received in this office on 04/04/2023, stating that it had been completed on 03/09/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/21/2024.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "Maret Thompson".

Maret Thompson
(575) 622-6521

drywell

Point of Diversion Summary

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

NAD83 UTM in meters

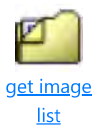
Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	C 04776 POD1	SW	SW	SW	09	23S	31E	613953.1	3575651.8	

* UTM location was derived from PLSS - see Help

Driller License:	1833	Driller Company:	VISION RESOURCES, INC		
Driller Name:	JASON MALEY				
Drill Start Date:	2023-12-13	Drill Finish Date:	2023-12-13	Plug Date:	2023-12-18
Log File Date:	2024-01-12	PCW Rcv Date:		Source:	
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	2.00	Depth Well:		Depth Water:	105

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 04776	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	751180	EXPL	2023-09-19	PMT	APR	C-4776 POD1	T	0.000	0.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tw	Rng	X	Y	Map	Other Location Desc
C 04776 POD1	NA		SW	SW	SW	09	23S	31E	613953.1	3575651.8		

* UTM location was derived from PLSS - see Help

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0.000	0.000		MON		GW	

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

Kolante Fed

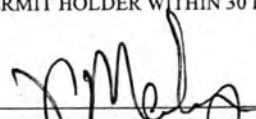
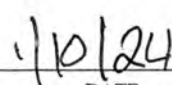
1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4776 Pod1		WELL TAG ID NO.		OSE FILE NO(S). CO4776			
	WELL OWNER NAME(S) Devon Energy Resources				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 205 E. Bender Road # 150				CITY Hobbs			
					STATE NM			
					ZIP 88240			
WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS		* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
	LATITUDE	32	18	42.84 N				
	LONGITUDE	-103	47	22.2 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1833		NAME OF LICENSED DRILLER Jason Maley			NAME OF WELL DRILLING COMPANY Vision Resources		
	DRILLING STARTED 12-13-23		DRILLING ENDED 12-13-23		DEPTH OF COMPLETED WELL (FT) 105'		BORE HOLE DEPTH (FT) 105'	
					DEPTH WATER FIRST ENCOUNTERED (FT) Dry hole			
	COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DATE STATIC MEASURED 12-16-23							
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:							
	CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐							
	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	95'	6"	2" PVC SCH40	Thread	2"	SCH40	N/A	
95'	105'	6"	2" PVC SCH40	Thread	2"	SCH40	.05	
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				None Pulled and Plugged				

USE ON JAN 12 2024 PM 1:52

FOR OSE INTERNAL USE

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

FILE NO. C-4776-POD1	POD NO. 1	TRN NO. 751180
LOCATION Expt 23.31.09.333	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	FROM	TO					
	0	5'	5'	Red Sand	Y	✓ N	
	5'	20'	15'	Tan Fine Sand	Y	✓ N	
	20'	40'	20'	Tan Fine sand with caliche rock	Y	✓ N	
	40'	105'	65'	Red sand with medium rock	Y	✓ N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY: Dry Hole					TOTAL ESTIMATED WELL YIELD (gpm): 0	
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
MISCELLANEOUS INFORMATION: USE ON JAN 12 2024 PM 1:52							
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:							
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:  SIGNATURE OF DRILLER / PRINT SIGNEE NAME Jason Moley  DATE						

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO. C-4776-POD 1	POD NO. 1	TRN NO. 751180	
LOCATION E-1 23.31.09.333		WELL TAG ID NO. _____	PAGE 2 OF 2

Mike A. Hamman, P.E.
State Engineer



well Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 751180
File Nbr: C 04776
Well File Nbr: C 04776 POD1

Jan. 12, 2024

DALE WOODALL
DEVON ENERGY RESOURCES
205 E BENDER ROAD #150
HOBBS, NM 88240

Greetings:

The above numbered permit was issued in your name on 09/19/2023.

The Well Record was received in this office on 01/12/2024, stating that it had been completed on 12/13/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/18/2024.

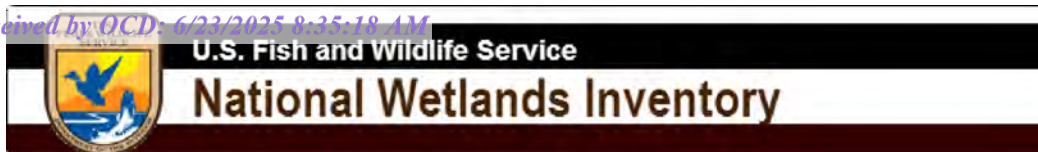
If you have any questions, please feel free to contact us.

Sincerely,

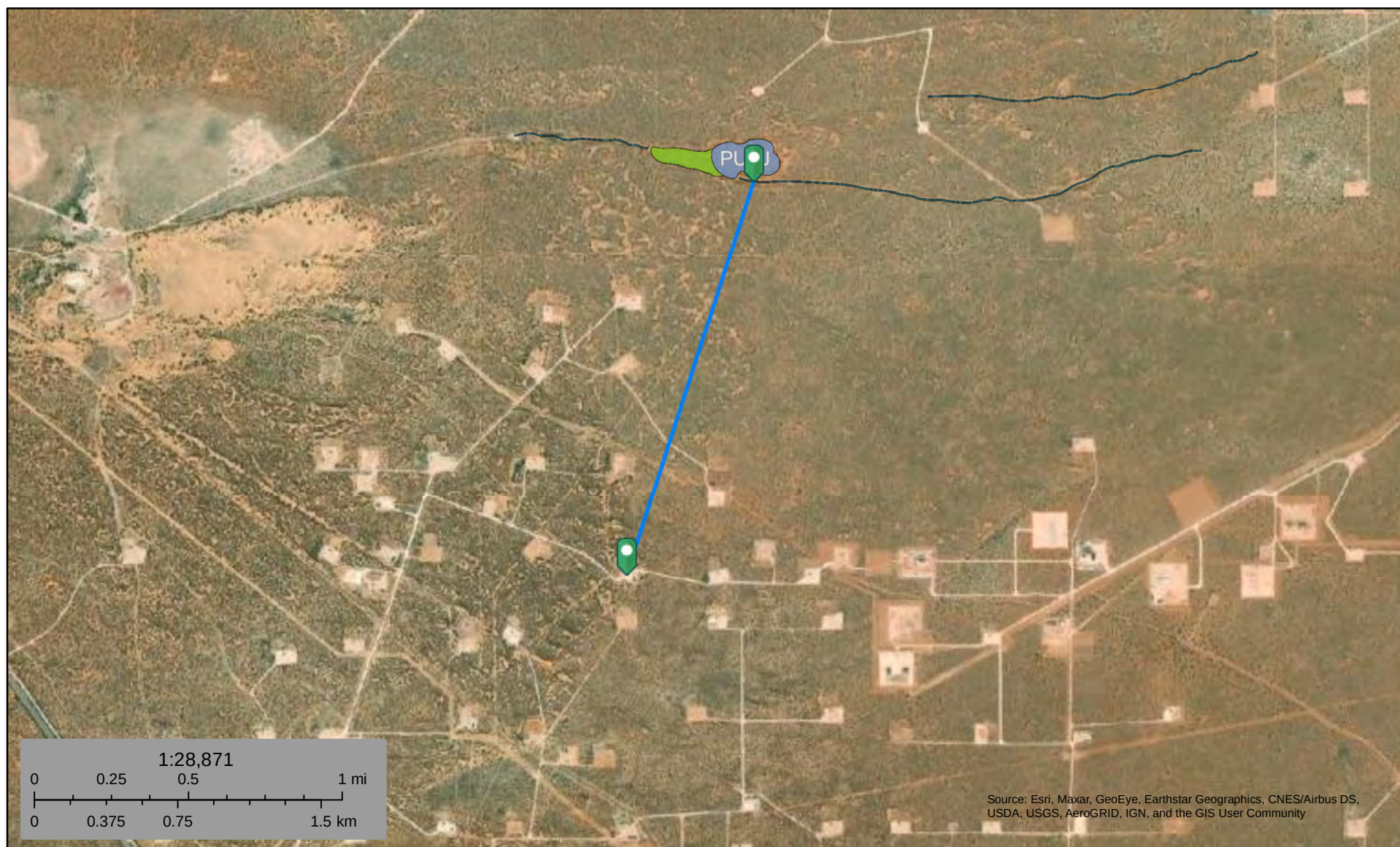
A handwritten signature in black ink, appearing to read "Maret Thompson".

Maret Thompson
(575) 622-6521

drywell



NPG 9 Fed 1 - Watercourse 5965 ft



April 23, 2021

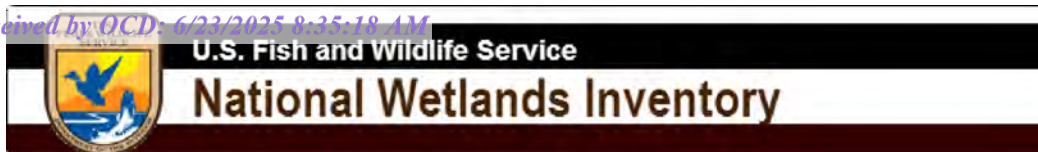
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

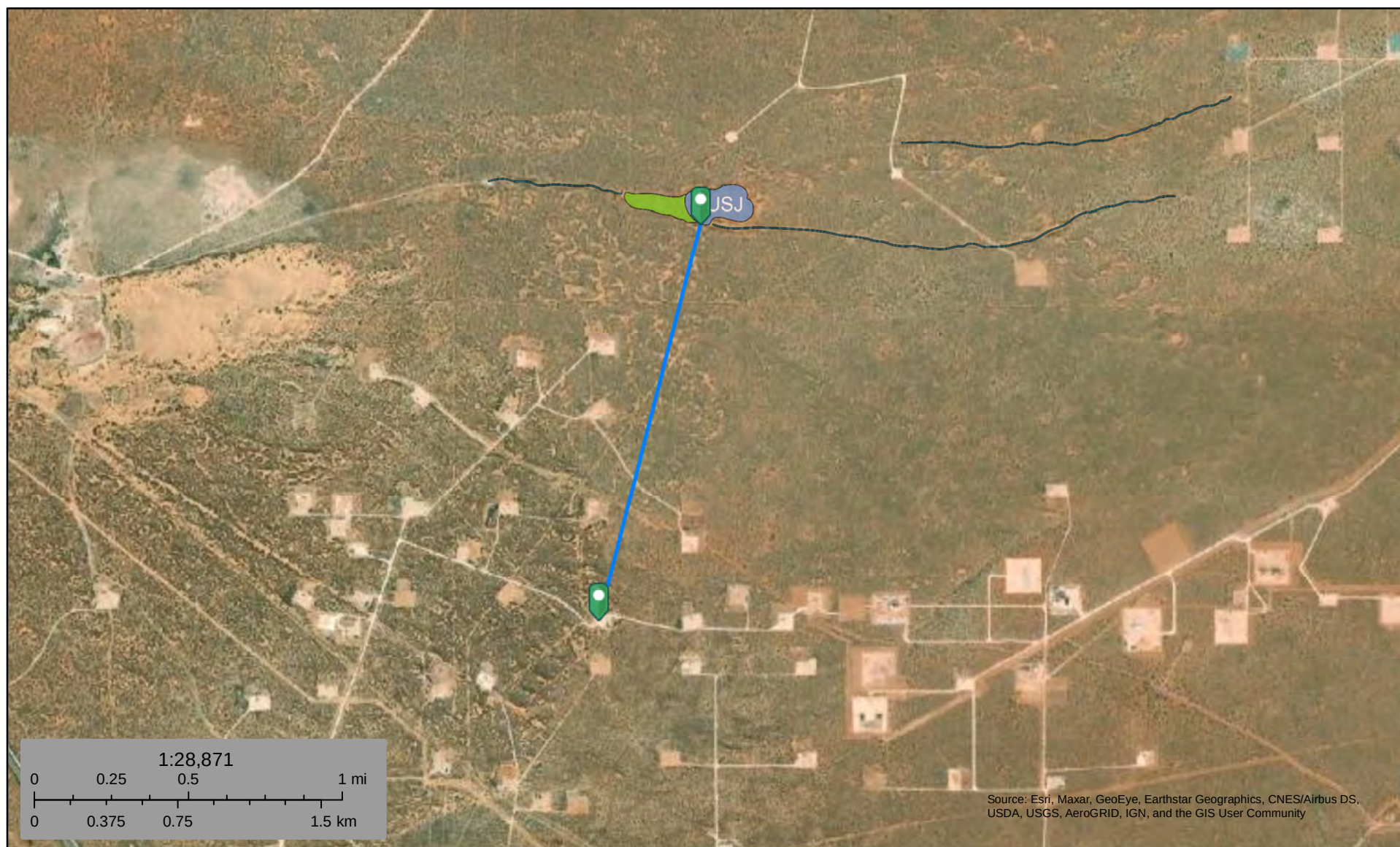
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- 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.



NPG 9 Fed 1 - Pond 5916 ft



April 23, 2021

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.

N Pure Gold 9 Feb 1

9,145 feet to nearest resident

 Resident

 Residence

 N Pure Gold



3000 ft

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) (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
C 04712	CUB	MON	0.000	HARVARD PETROLEUM COMPANY LLC	ED	C 04712 POD5	NA				SE	SE	SW	09	23S	31E	614392.9	3575754.4		24.5
C 04776	CUB	MON	0.000	DEVON ENERGY RESOURCES	ED	C 04776 POD1	NA				SW	SW	SW	09	23S	31E	613953.1	3575651.8		435.5
C 04709	CUB	MON	0.000	DEVON ENERGY	ED	C 04709 POD1	NA				SW	NW	NW	15	23S	31E	615508.8	3575262.4		1,222.0
C 04712	CUB	MON	0.000	HARVARD PETROLEUM COMPANY LLC	ED	C 04712 POD6	NA				SW	SW	SE	08	23S	31E	613146.6	3575740.1		1,234.4
C 04724	CUB	MON	0.000	DEVON ENERGY	ED	C 04724 POD1	NA				SE	SW	SW	10	23S	31E	615709.7	3575738.3		1,328.7
C 02774	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02774					SW	NW	SW	04	23S	31E	613857.0	3577745.0 *		2,079.1
C 03351	C	STK	3.000	BUREAU OF LAND MANAGEMENT	ED	C 03351				Shallow	SE	NW	SE	04	23S	31E	614916.6	3577861.1		2,194.5
C 03140	CUB	MON	0.000	US DEPT OF ENERGY	ED	C 03140				Shallow	SE	NE	SE	04	23S	31E	615266.0	3577758.0 *		2,209.9
C 03389	C	STK	3.000	JIMMY MILLS 2005 GST TRUST	ED	C 03389					NW	NW	SW	17	23S	31E	612316.0	3574683.0		2,316.6
C 03394	C	PUB	0.000	JAMES HAMILTON CONSTRUCTION CO	ED	C 03389					NW	NW	SW	17	23S	31E	612316.0	3574683.0		2,316.6
C 02773	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02773					SE	NW	SW	03	23S	31E	615668.0	3577762.0 *		2,402.8
C 02777	CUB	MON	0.000	US DEPT OF ENERGY WIPP	ED	C 02777					SE	SE	SE	10	23S	31E	616973.8	3575662.1		2,593.8
C 03749	CUB	MON	0.000	US DEPARTMENT OF ENERGY	ED	C 03749 POD1				Shallow		NE	NE	15	23S	31E	616973.8	3575662.1		2,593.8
C 04200	CUB	EXP	0.000	JIMMY MILLS GST TRUST	ED	C 04200 POD3	NA					NE	NE	07	23S	31E	612130.3	3577147.3		2,658.2
C 04897	CUB	MON	0.000	OXY USA INC.	ED	C 04897 POD1	NA				NW	NE	SW	21	23S	31E	614374.0	3573036.6		2,696.4
C 02664	CUB	MON	0.000	SANDIA NATIONAL LABORATORIES	ED	C 02664				Shallow	SW	SW	NE	05	23S	31E	613049.0	3578138.0 *		2,749.2
C 04200	CUB	EXP	0.000	JIMMY MILLS GST TRUST	ED	C 04200 POD5	NA				SE	SE	06	23S	31E	612138.8	3577393.1		2,789.9	
C 02492	CUB	COM	105.000	THE JIMMY MILLS GST TRUST	ED	C 02492				Shallow	SE	SE	SE	06	23S	31E	612056.0	3577320.0 *		2,815.0
C 02865	CUB	EXP	0.000	STACY MILLS	ED	C 02865					SE	SE	SE	06	23S	31E	612056.0	3577320.0 *		2,815.0
C 04200	CUB	EXP	0.000	JIMMY MILLS GST TRUST	ED	C 04200 POD2	NA					NE	NE	07	23S	31E	611893.1	3577123.1		2,849.9
					ED	C 04200 POD1	NA					NE	NE	07	23S	31E	611802.8	3577058.6		2,899.0
C 03668	C	STK	3.000	J T MILLS 2005 GST TRUST	ED	C 02492 POD2				Shallow	SW	NE	NE	07	23S	31E	611767.4	3576996.6		2,903.0
C 04200	CUB	EXP	0.000	JIMMY MILLS GST TRUST	ED	C 04200 POD4	NA				SE	SE	06	23S	31E	611996.2	3577521.8		2,981.1	
C 04855	CUB	MON	0.000	DEVON ENERGY PRODUCTION	ED	C 04855 POD1	NA				NE	SW	SW	11	23S	31E	617417.6	3575936.7		3,043.4
C 04772	CUB	MON	0.000	DEVON ENERGY RESOURCES	ED	C 04772 POD1	NA				NW	NW	NW	04	23S	31E	613895.0	3578780.5		3,086.0
C 02954	CUB	EXP	0.000	U.S. DEPARTMENT OF ENERGYCARLSBAD FIELD OFFICE, WIPP	ED	C 02954 EXPL				Shallow	SW	NW	SE	20	23S	31E	613114.0	3572906.0 *		3,097.9
C 04712	CUB	MON	0.000	HARVARD PETROLEUM COMPANY LLC	ED	C 04712 POD4	NA				NW	SE	SW	14	23S	31E	617535.4	3574316.2		3,458.0
C 02776	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02776					NE	NW	NW	05	23S	31E	612440.0	3578731.0 *		3,571.5
C 02767	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02767					SE	NW	SE	33	22S	31E	614844.0	3579360.0 *		3,656.4
C 02768	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02768					SE	NW	SE	33	22S	31E	614844.0	3579360.0 *		3,656.4
C 02725	CUB	MON	0.000	U.S. DEPT. OF ENERGY, WIPP	ED	C 02725					NW	NW	NW	05	23S	31E	612240.0	3578731.0 *		3,684.0
C 02775	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02775					NW	NW	NW	05	23S	31E	612240.0	3578731.0 *		3,684.0

(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) (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
C 02769	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02769 POD2				Artesian	SE	NE	SE	33	22S	31E	615260.6	3579312.3		3,685.8
C 02687	CUB	MON	0.000	SANDIA NATIONAL LABORATORIES	ED	C 02687					SE	NE	SE	33	22S	31E	615246.0	3579364.0 *		3,732.6
C 03520	C	STK	0.000	SLASH 46, INC.	ED	C 03520 POD1					SW	NW	NW	07	23S	31E	610732.6	3576905.8		3,832.3
C 02769	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02769					NE	NE	SE	33	22S	31E	615246.0	3579564.0 *		3,927.4
C 03139	CUB	MON	0.000	US DEPT OF ENERGY	ED	C 03139					SE	NE	SE	01	23S	30E	610424.0	3577764.0 *		4,447.8
C 04774	CUB	MON	0.000	DEVON ENGERGY RESOURCES	ED	C 04774 POD1	NA				SE	NE	NE	23	23S	31E	618456.0	3573856.4		4,486.3
C 04553	CUB	MON	0.000	OXY USA INC	ED	C 04553 POD1	NA				SE	NW	SE	29	23S	31E	613255.5	3571369.8		4,506.0
C 03222	CUB	MON	0.000	U.S. DEPART OF ENERGY	ED	C 03222 EXPLORE				Shallow	NW	NW	SE	12	23S	30E	609833.0	3576349.0 *		4,589.5
C 04325	CUB	POL	0.000	XTO ENERGY INC	ED	C 04325 POD5	NA				SE	SE	NE	01	23S	30E	610375.9	3578216.3		4,712.5
					ED	C 04325 POD13	NA				SE	SE	NE	01	23S	30E	610356.3	3578220.1		4,731.2
					ED	C 04325 POD3	NA				SE	SE	NE	01	23S	30E	610362.7	3578231.5		4,731.7
					ED	C 04325 POD16	NA				SE	SE	NE	01	23S	30E	610347.3	3578206.7		4,731.8
					ED	C 04325 POD14	NA				SE	SE	NE	01	23S	30E	610346.7	3578215.7		4,737.0
					ED	C 04325 POD4	NA				SE	SE	NE	01	23S	30E	610360.0	3578239.5		4,738.2
					ED	C 04325 POD6	NA				SE	SE	NE	01	23S	30E	610360.0	3578239.5		4,738.2
					ED	C 04325 POD10	NA				SE	SE	NE	01	23S	30E	610349.4	3578231.7		4,743.1
					ED	C 04325 POD7	NA				SE	SE	NE	01	23S	30E	610345.5	3578227.4		4,744.2
					ED	C 04325 POD12	NA				SE	SE	NE	01	23S	30E	610350.6	3578235.7		4,744.2
					ED	C 04325 POD2	NA				SE	SE	NE	01	23S	30E	610349.6	3578234.8		4,744.6
					ED	C 04325 POD1	NA				SE	SE	NE	01	23S	30E	610341.7	3578235.0		4,751.4
					ED	C 04325 POD9	NA				SE	SE	NE	01	23S	30E	610339.4	3578232.8		4,752.2
					ED	C 04325 POD15	NA				SE	SE	NE	01	23S	30E	610339.4	3578237.1		4,754.5
					ED	C 04325 POD8	NA				SE	SE	NE	01	23S	30E	610334.0	3578228.5		4,754.5
					ED	C 04325 POD11	NA				SE	SE	NE	01	23S	30E	610332.6	3578232.8		4,758.0
C 02417	CUB	MON	0.000	U.S. DEPT. OF ENERGY	ED	C 02417				Artesian	SE	SE	SE	29	22S	31E	613623.0	3580554.0 *		4,880.2
C 02757	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02757					SE	SE	SE	28	22S	31E	615232.0	3580571.0 *		4,912.3
C 02960	CUB	EXP	0.000	US DEPT. OF ENERGY CARLSBAD FIELD OFFICE, WIPP	ED	C 02960 EXPL					SW	SW	SW	31	22S	31E	610620.0	3578915.0 *		4,926.5

Record Count: 59

Filters Applied:

UTM Filters (in meters):

Easting: 614381

Northing: 3575733

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.

Point of Diversion Summary

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

NAD83 UTM in meters

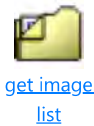
Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 02774	SW	NW	SW	04	23S	31E	613857.0	3577745.0 *	

* 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
		Plug Date:	
Log File 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



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
	195794	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
C 02774		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	Tws	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)

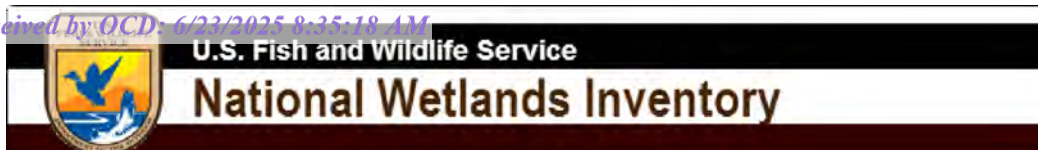
Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
get images	469289	72121	2007-11-15	PMT	LOG	C 03351	T		3.000	

Current Points of Diversion

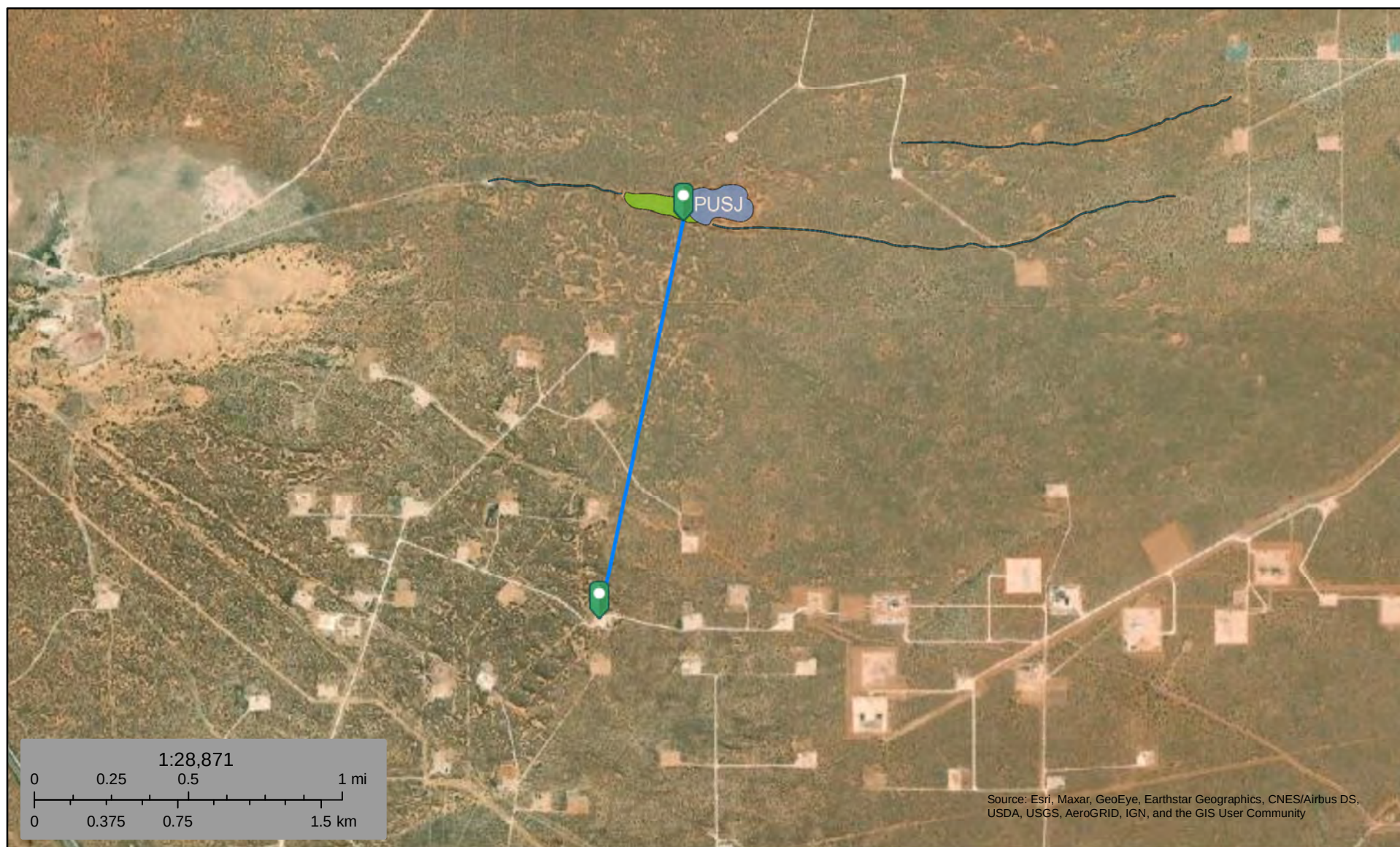
POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 03351		Shallow	SE	NW	SE	04	23S	31E	614916.6	3577861.1		

* 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.



NPG 9 Fed 1 - Wetland 5881 ft



April 23, 2021

Wetlands

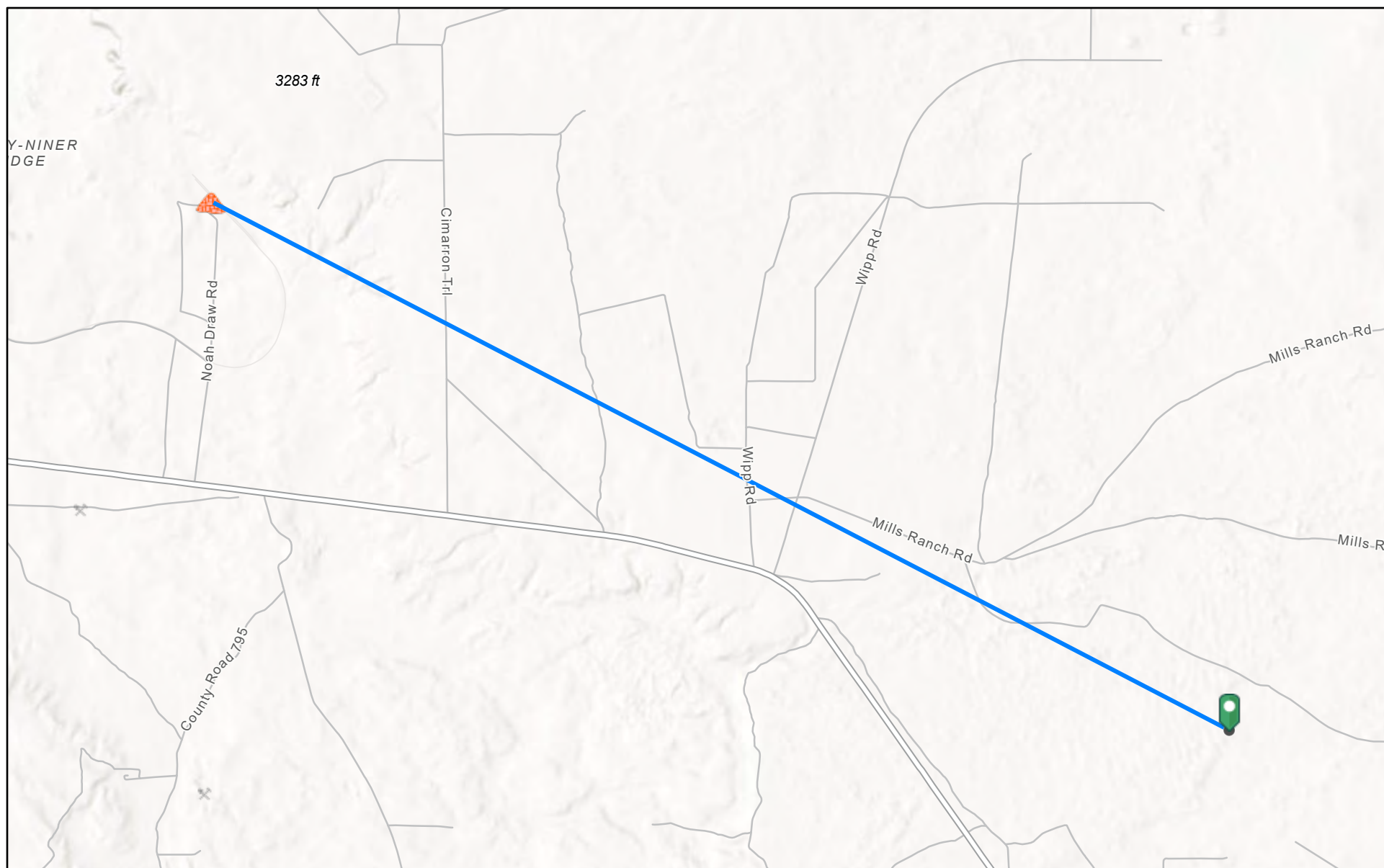
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- 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 9 Federal #001 - 34,074 feet from mine



1/26/2024, 7:31:01 AM

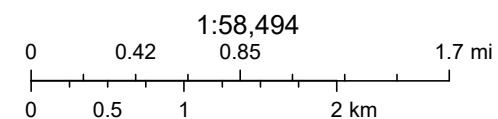
Registered Mines



Potash



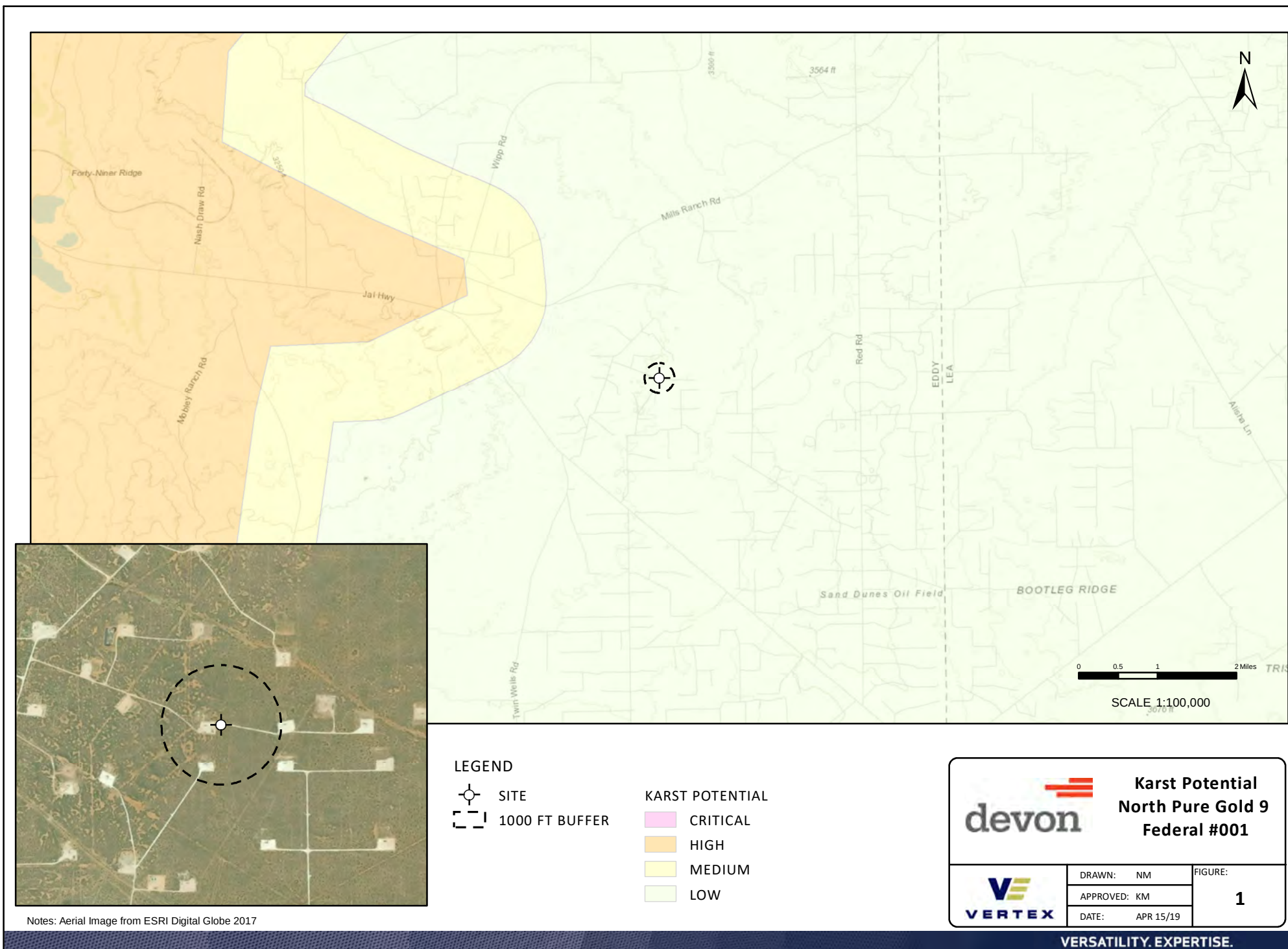
Aggregate, Stone etc.



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>)



North Pure Gold 9 Federal #001

13,768 feet from High Karst

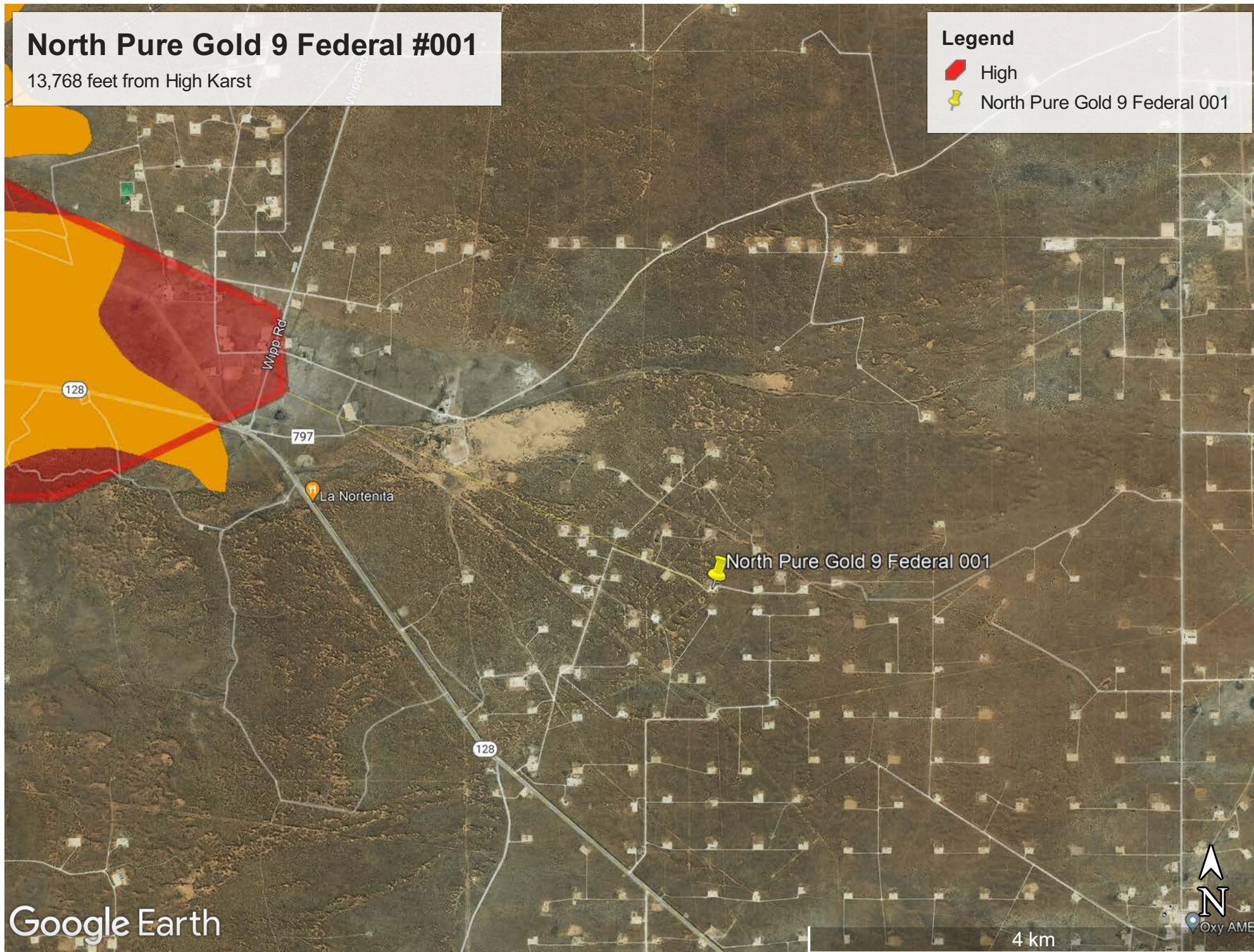
Legend



High



North Pure Gold 9 Federal 001

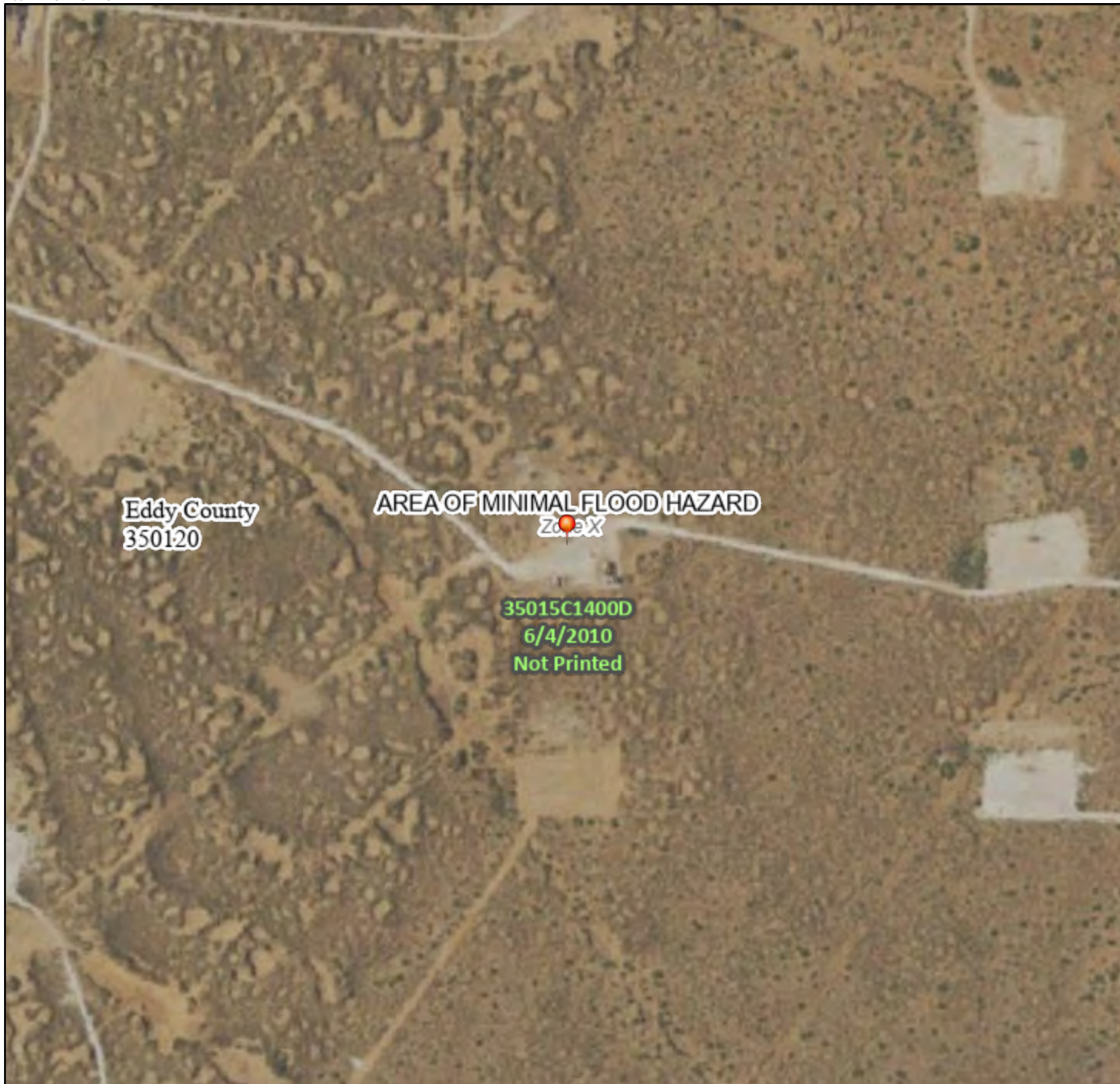


Google Earth

National Flood Hazard Layer FIRMette



103°47'25"W 32°19'1"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		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 Cross Sections with 1% Annual Chance Water Surface Elevation
		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 4/18/2025 at 8:13 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.

Released to Imaging: 10/14/2025 10:48:55 AM

1:6,000

103°46'47"W 32°18'30"N

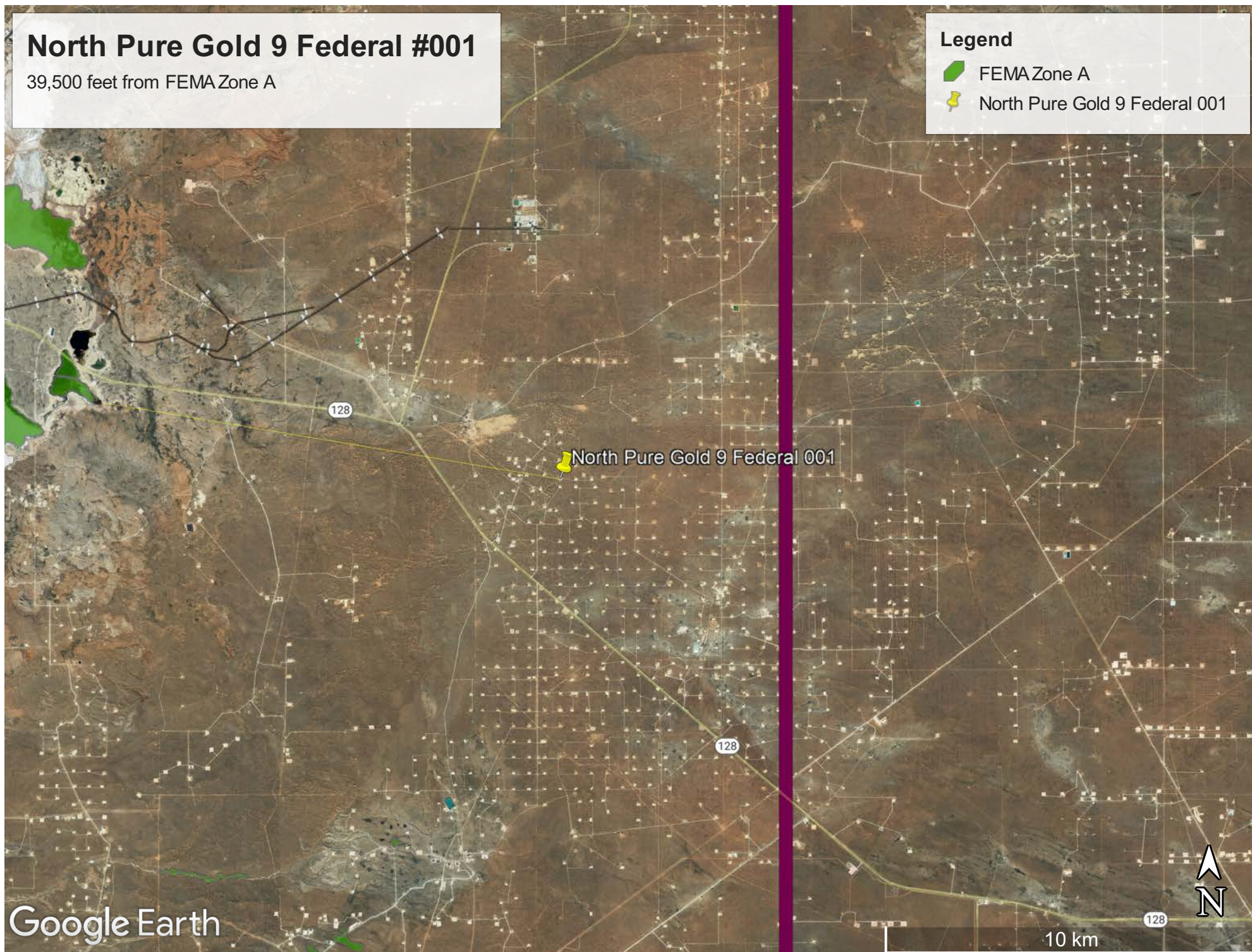
Basemap Imagery Source: USGS National Map 2023

North Pure Gold 9 Federal #001

39,500 feet from FEMA Zone A

Legend

-  FEMA Zone A
-  North Pure Gold 9 Federal 001



Google Earth



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



January 25, 2024

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 19, Sep 7, 2023

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

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 R042XC005NM Deep Sand

Accessed: 04/23/2021

General information

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

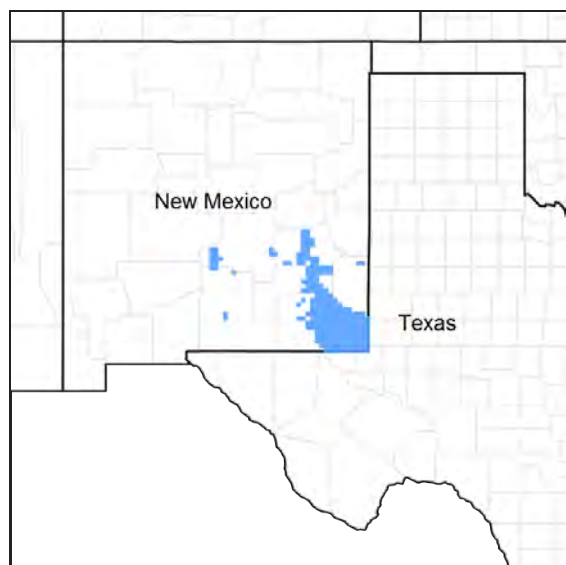


Figure 1. Mapped extent

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

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

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

Table 2. Representative physiographic features

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

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

Climatic features

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

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

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

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

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

Table 3. Representative climatic features

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

Influencing water features

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

Soil features

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

Characteristic soils are:

Anthony
Aguena
Kermit
Likes
Pintura
Bluepoint

Table 4. Representative soil features

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

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

Ecological dynamics

Overview

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

State and transition model

Plant Communities and Transitional Pathways (diagram)

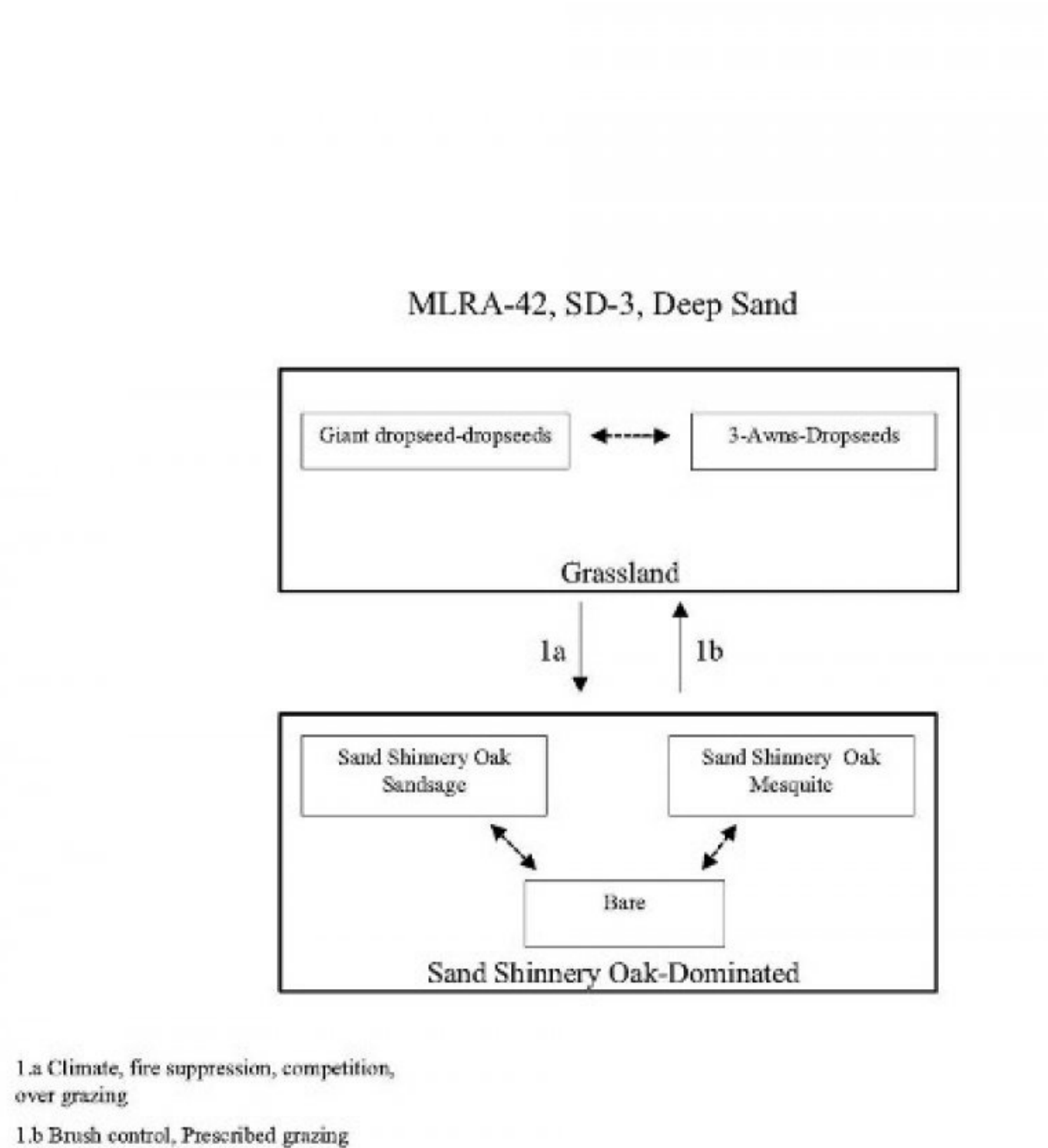


Figure 4.

State 1

Historic Climax Plant Community

Community 1.1
Historic Climax Plant Community

State Containing Historic Plant Community

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

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

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

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

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

Table 5. Annual production by plant type

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

Table 6. Ground cover

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

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

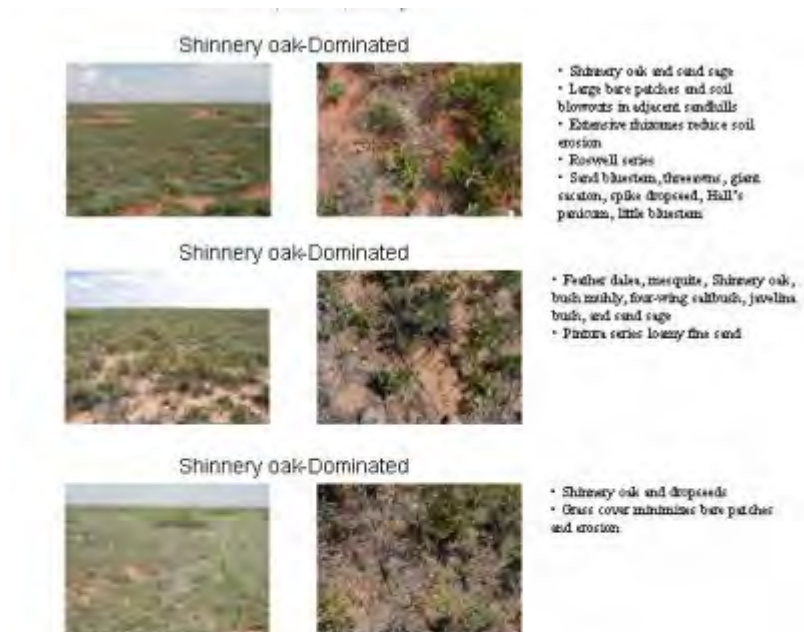
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

State 2

Shinnery Oak Dominated

Community 2.1

Shinnery Oak Dominated



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

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

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

Key indicators of approach to transition:

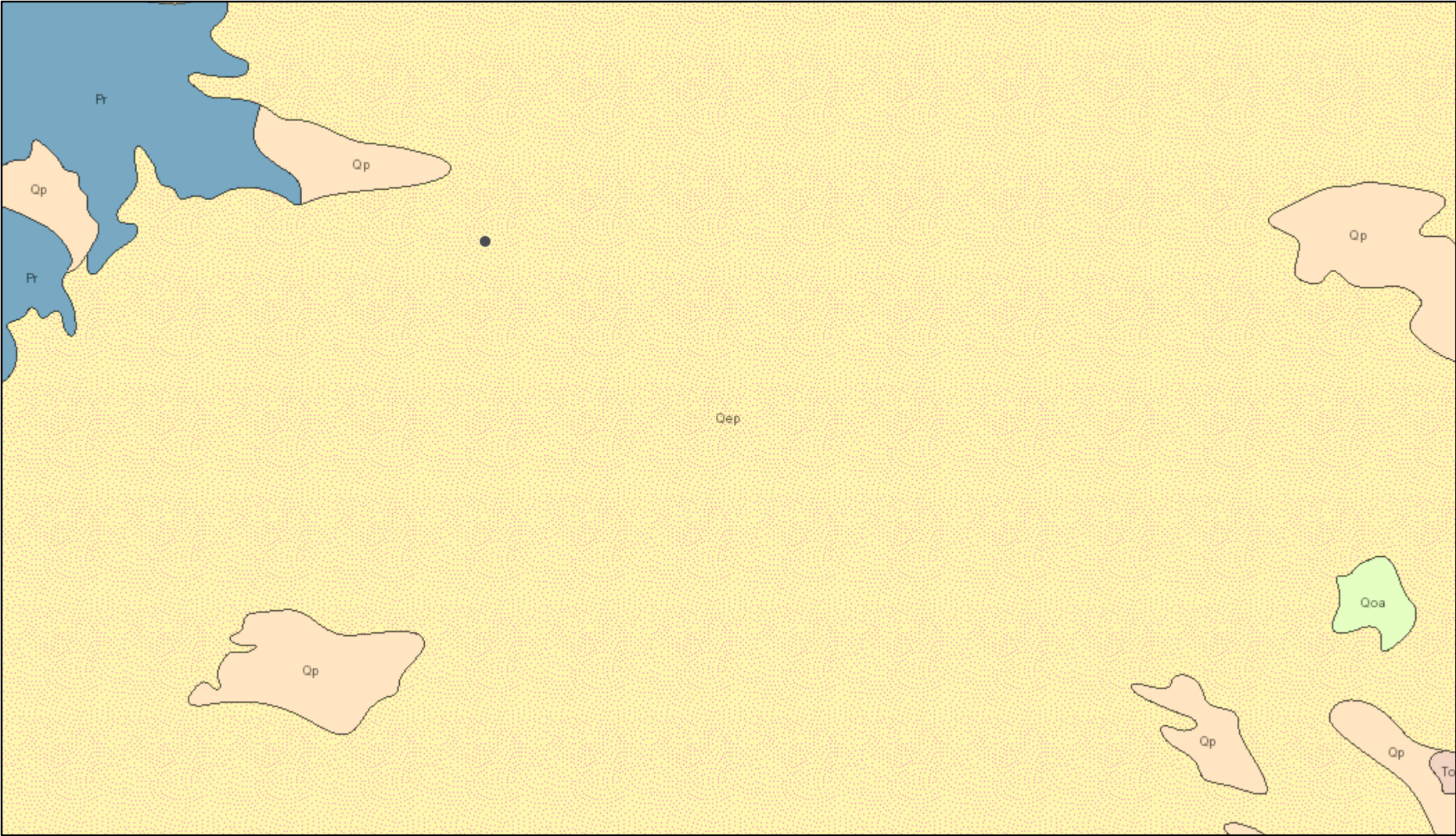
- Loss of grass and forb cover
- Surface soil erosion
- Bare patch expansion
- Increased shrub species abundance and composition

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

Additional community tables

Table 7. Community 1.1 plant community composition

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



7/27/2021, 2:44:08 PM

Lithologic Contacts

— Contact, Exposed

— Contact, Gradational

— Map Boundary

Faults

— Fault, Exposed

----- Fault, Concealed

~ ~ ~ Shere Zone

Dikes

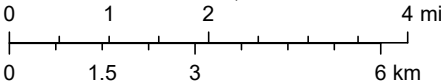
— <all other values>

— Dike

— Dike intruding fault

* Volcanic Vents

1:144,448



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

APPENDIX C – Daily Field Reports



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	4/6/2019
Site Location Name:	North Pure Gold 9 Fed 1H	Report Run Date:	4/6/2019 10:11 PM
Project Owner:	Amanda Davis	File (Project) #:	19E-00575
Project Manager:	Dennis Williams	API #:	30-015-27178
Client Contact Name:	Amanda Davis	Reference	Historic Spills
Client Contact Phone #:	(575) 748-0176		

Summary of Times

Left Office	4/6/2019 11:45 AM
Arrived at Site	4/6/2019 11:56 AM
Departed Site	4/6/2019 12:27 PM
Returned to Office	4/10/2019 12:32 PM

Summary of Daily Operations

- 11:57** Complete all safety paperwork and arrival forms
- 11:57** Take pictures of site to determine extent of historical spills.

Next Steps & Recommendations

- 1 Create work plan to close out all spills.

Daily Site Visit Report



Site Photos

Viewing Direction: East



Bermed containment

Viewing Direction: South



Bermed containment

Viewing Direction: South



Bermed containment

Viewing Direction: South



Bermed containment



Daily Site Visit Report

Viewing Direction: South



Bermed containment

Viewing Direction: Northeast



Bermed containment

Viewing Direction: East



Bermed containment

Viewing Direction: North



Bermed containment



Daily Site Visit Report

Viewing Direction: North



Bermed containment

Viewing Direction: West



Bermed containment

Viewing Direction: South



2RP-3805 and 2RP-1771 approximate spill area

Viewing Direction: South



2RP-3805 and 2RP-1771



Daily Site Visit Report

Viewing Direction: Southwest



2RP-4491 separator area

Viewing Direction: Southeast



2RP-4491 separator area

Viewing Direction: East



2RP-4491 separator area

Viewing Direction: West



2RP-4491 separator area



Daily Site Visit Report

Viewing Direction: East



2RP-4491 separator area

Viewing Direction: East



Site overview

Viewing Direction: Northeast



Site overview

Viewing Direction: North



Wellhead



Daily Site Visit Report



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Robyn Fisher

Signature:


Signature



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	5/10/2019
Site Location Name:	North Pure Gold 9 Fed 1H	Report Run Date:	5/11/2019 12:15 AM
Project Owner:	Amanda Davis	File (Project) #:	19E-00575
Project Manager:	Dennis Williams	API #:	30-015-27178
Client Contact Name:	Amanda Davis	Reference	Historic Spills
Client Contact Phone #:	(575) 748-0176		

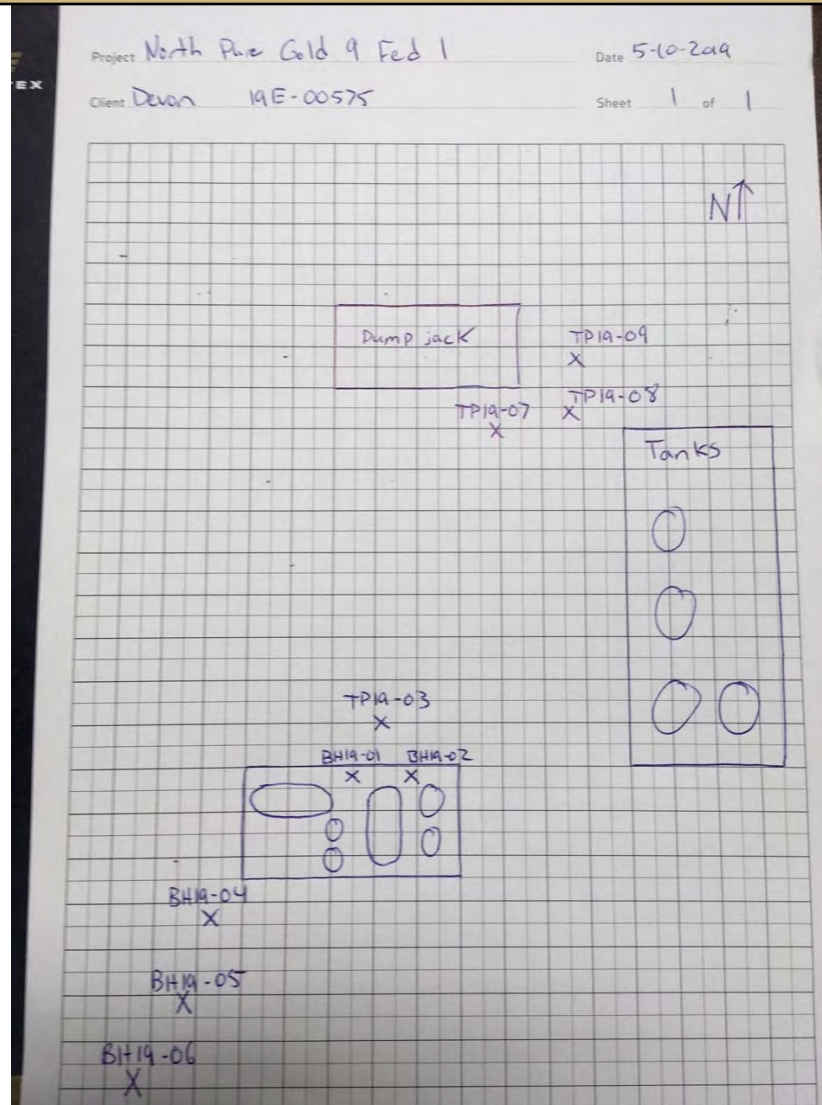
Summary of Times

Left Office	5/10/2019 7:45 AM
Arrived at Site	5/10/2019 8:45 AM
Departed Site	5/10/2019 3:30 PM
Returned to Office	5/10/2019 4:15 PM



Daily Site Visit Report

Site Sketch





Daily Site Visit Report

Summary of Daily Operations

12:17 Fill out arrival, safety, and ground disturbance forms
 Tailgate safety meeting
 Begin taking and field screening samples from each spill area
 Take pictures
 Fill out DFR
 Return to office

Next Steps & Recommendations

1 Sample spill inside tank containment

Sampling

BH19-01

Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
2 ft.	0 ppm	49 ppm	High (300- 6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31234057, - 103.78510568	Yes

BH19-02

Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
2 ft.	0 ppm	575 ppm	High (300- 6000ppm)	309 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31234799, - 103.78504484	Yes



Daily Site Visit Report

BH19-04									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	2 ft.	9 ppm	760 ppm	High (300-6000ppm)	3968 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31224441, -103.78527409	Yes
BH19-05									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	0 ft.	7 ppm	146 ppm	High (300-6000ppm)	1269 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31212367, -103.78531241	Yes
BH19-06									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	2 ft.	9 ppm	33 ppm	High (300-6000ppm)	424 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31208265, -103.78537964	Yes
TP19-03									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	2 ft.	2 ppm	169 ppm	High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31237867, -103.78508475	Yes



Daily Site Visit Report

TP19-07									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	4 ft.	11 ppm	1600 ppm	High (300-6000ppm)	2061 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31260420, -103.78497668	Yes
TP19-08									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	4 ft.	7 ppm	1140 ppm	High (300-6000ppm)	1611 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31259804, -103.78490309	Yes
TP19-09									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	4 ft.	0 ppm	120 ppm	High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31264502, -103.78489604	Yes

Daily Site Visit Report



Site Photos

Viewing Direction: Northwest



Spill area around well head

Viewing Direction: Southeast



Spill area inside tank containment

Viewing Direction:



Standing fluids inside tank containment

Viewing Direction:



Standing fluids inside tank containment



Daily Site Visit Report

Viewing Direction:	Viewing Direction: East
 Descriptive Photo Viewing Direction: Date: Standing fluids inside tank containment Created: 5/10/2019 8:01:27 PM Lat:32.418089, Long:-104.237006	 Descriptive Photo Viewing Direction: East Date: Instructions to hand dig inside containment Created: 5/10/2019 8:01:27 PM Lat:32.418089, Long:-104.237006
Standing fluids inside tank containment	Instructions to hand dig inside containment

Daily Site Visit Report



Depth Sample Photos

Sample Point ID: BH19-01



Depth Point Sample Photo
Depth: 2 ft.
5/10/2019 12:25:23 PM
Lat: 32.312357, Long: -103.785194

Depth: 2ft.

Sample Point ID: BH19-02



Depth Point Sample Photo
Depth: 2 ft.
5/10/2019 12:25:25 PM
Lat: 32.312357, Long: -103.785192

Depth: 2ft.

Sample Point ID: TP19-03



Depth Point Sample Photo
Depth: 2 ft.
5/10/2019 12:25:26 PM
Lat: 32.312342, Long: -103.785192

Depth: 2ft.

Sample Point ID: BH19-04



Depth Point Sample Photo
Depth: 2 ft.
5/10/2019 12:25:26 PM
Lat: 32.312342, Long: -103.785192

Depth: 2ft.



Daily Site Visit Report

Sample Point ID: BH19-05



Depth: 0ft.

Sample Point ID: BH19-06



Depth: 2ft.

Sample Point ID: TP19-07



Depth: 4ft.

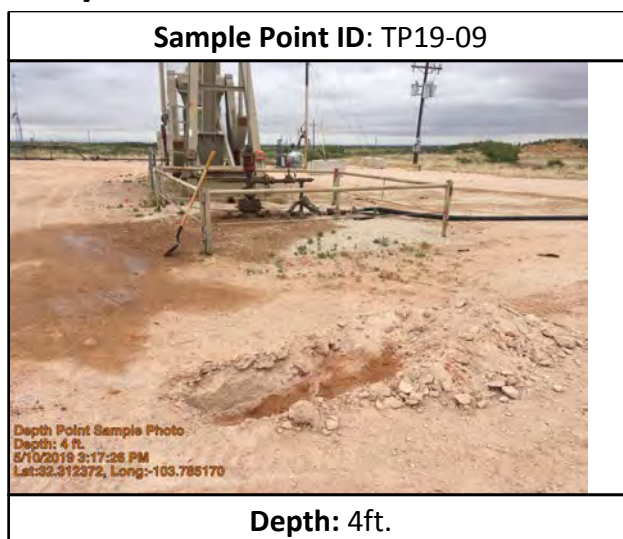
Sample Point ID: TP19-08



Depth: 4ft.



Daily Site Visit Report



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Jason Crabtree

Signature:


Signature



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	5/12/2019
Site Location Name:	North Pure Gold 9 Fed 1H	Report Run Date:	5/12/2019 11:53 PM
Project Owner:	Amanda Davis	File (Project) #:	19E-00575
Project Manager:	Dennis Williams	API #:	30-015-27178
Client Contact Name:	Amanda Davis	Reference	Historic Spills
Client Contact Phone #:	(575) 748-0176		

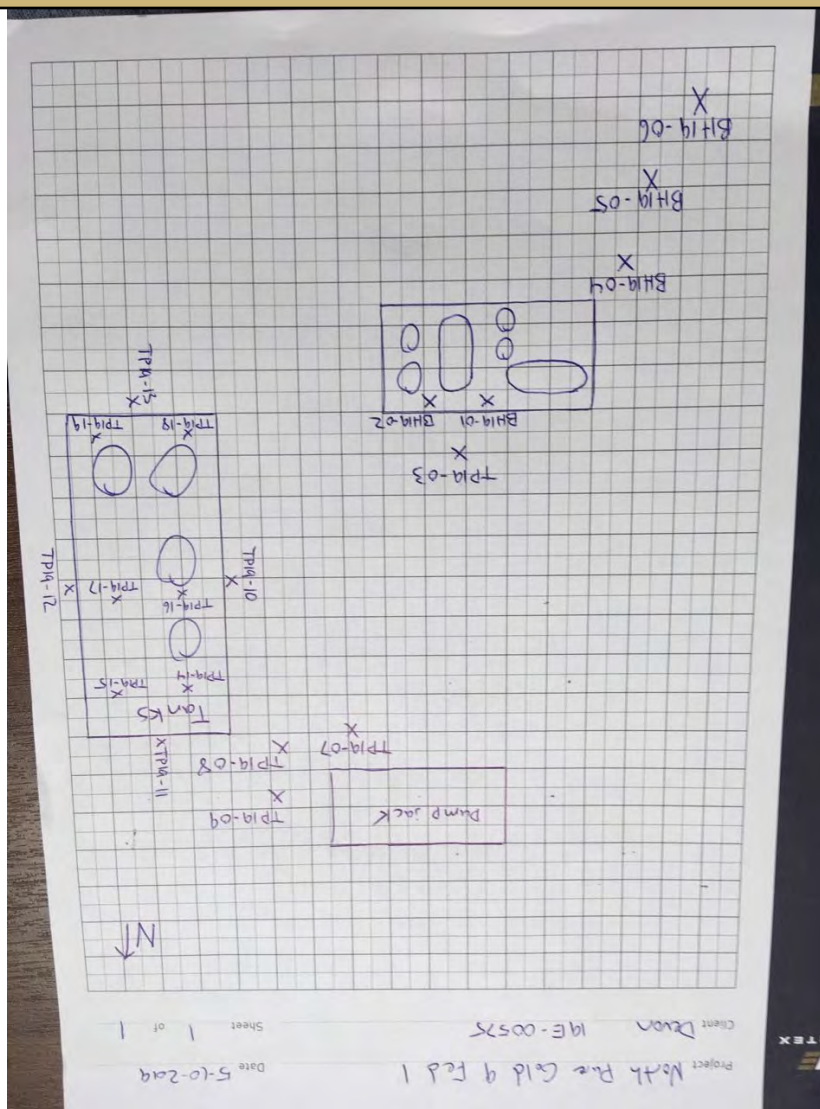
Summary of Times

Left Office	5/12/2019 10:30 AM
Arrived at Site	5/12/2019 11:30 AM
Departed Site	5/12/2019 3:44 PM
Returned to Office	5/12/2019 4:45 PM

Daily Site Visit Report



Site Sketch



Daily Site Visit Report



Summary of Daily Operations

Next Steps & Recommendations

1 Ship samples

Sampling

TP19-10

Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
1 ft.	0 ppm	32 ppm	High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31241624, -103.78471199	Yes

TP19-11

Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
1 ft.	0 ppm	27 ppm	High (300-6000ppm)	374 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31255788, -103.78461560	Yes

TP19-12

Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
1 ft.	0 ppm	18 ppm	High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31240706, -103.78447305	Yes



Daily Site Visit Report

TP19-13									
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?	
1 ft.	0 ppm	23 ppm	High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31425989, -103.78459375	Yes	
TP19-14									
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?	
2 ft.	3 ppm	223 ppm	High (300-6000ppm)	667 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31249555, -103.78463563	Yes	
TP19-15									
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?	
2 ft.	0 ppm	39 ppm	High (300-6000ppm)	612 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31250244, -103.78454630	Yes	
TP19-16									
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?	
6 ft.	2 ppm	290 ppm	High (300-6000ppm)	787 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31239502, -103.78465406	Yes	



Daily Site Visit Report

TP19-17									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	2 ft.	16 ppm	1802 ppm	High (300-6000ppm)	1896 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31240271, -103.78453497	Yes
TP19-18									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	8 ft.					BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31228304, -103.78464965	Yes
TP19-19									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	8 ft.	16 ppm	1510 ppm	High (300-6000ppm)	1611 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31230266, -103.78452152	Yes

Daily Site Visit Report



Site Photos

Viewing Direction: East



Instructions to hand dig

Viewing Direction: East



Wescom crew digging samples

Viewing Direction: South



Dirty containment area

Viewing Direction: South



Dirty containment area



Daily Site Visit Report



Daily Site Visit Report



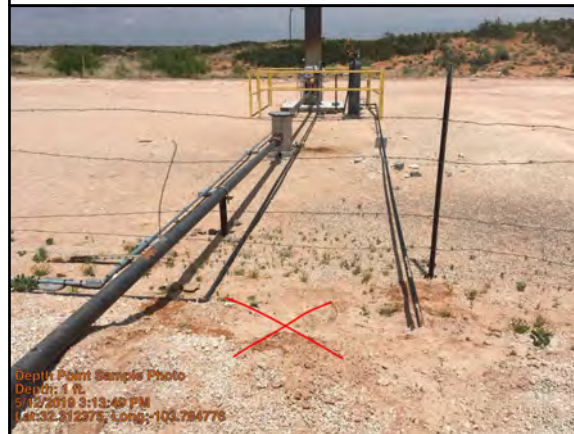
Depth Sample Photos

Sample Point ID: TP19-10



Depth: 1ft.

Sample Point ID: TP19-11



Depth: 1ft.

Sample Point ID: TP19-12



Depth: 1ft.

Sample Point ID: TP19-13



Depth: 1ft.



Daily Site Visit Report

Sample Point ID: TP19-14



Depth: 2ft.

Sample Point ID: TP19-15



Depth: 2ft.

Sample Point ID: TP19-16



Depth: 6ft.

Sample Point ID: TP19-17



Depth: 2ft.



Daily Site Visit Report

Sample Point ID: TP19-18



Depth: 8ft.

Sample Point ID: TP19-19



Depth: 8ft.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Jason Crabtree

Signature:

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

Signature



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	7/24/2019
Site Location Name:	North Pure Gold 9 Fed 1H	Report Run Date:	8/5/2019 8:46 PM
Project Owner:	Amanda Davis	File (Project) #:	19E-00575
Project Manager:	Dennis Williams	API #:	30-015-27178
Client Contact Name:	Amanda Davis	Reference	Historic Spills
Client Contact Phone #:	(575) 748-0176		

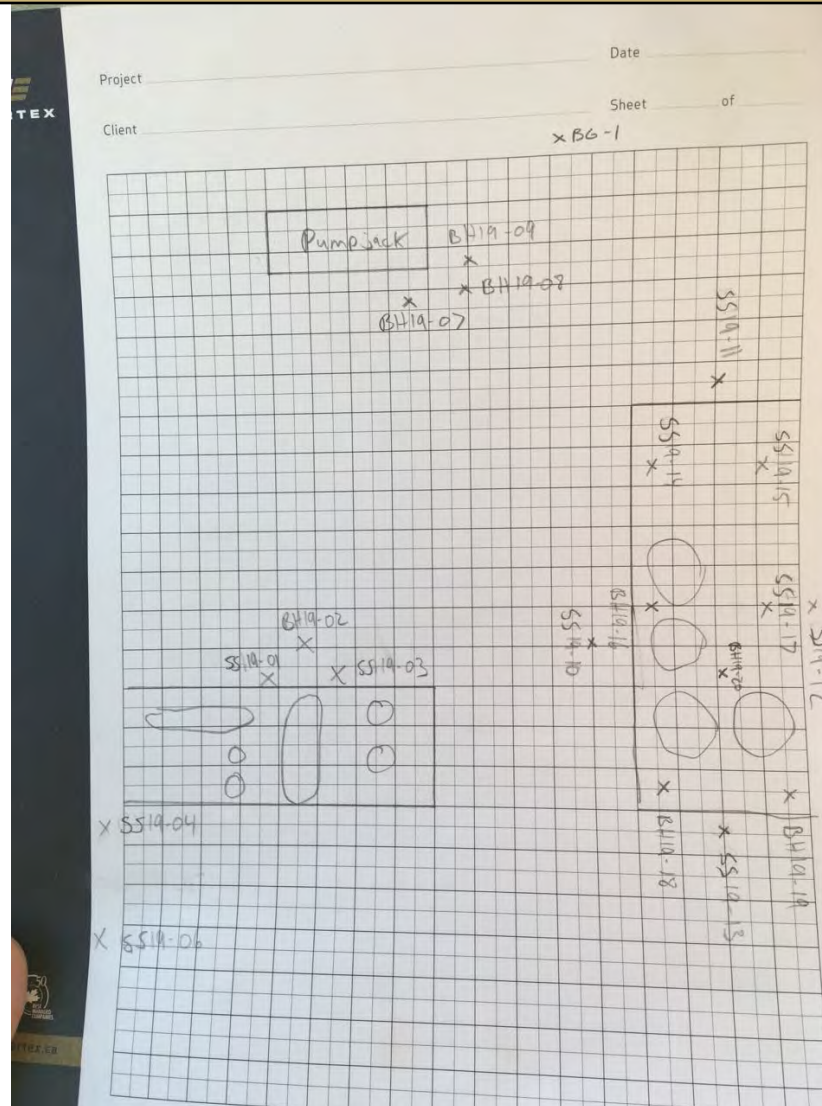
Summary of Times

Left Office	7/24/2019 7:45 AM
Arrived at Site	7/24/2019 8:39 AM
Departed Site	7/24/2019 7:23 PM
Returned to Office	7/24/2019 8:30 PM

Daily Site Visit Report



Site Sketch





Daily Site Visit Report

Summary of Daily Operations

10:54 Fill out arrival and safety forms
 Tailgate safety meeting
 Drill boreholes
 Field screen and collect samples
 Take pictures
 Fill out DFR
 Return to office

Next Steps & Recommendations

1 Ship samples

Sampling

Background19-01

Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.	0 ppm		High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31289798, -103.78480023	Yes
2 ft.	0 ppm		High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		,	Yes

BH19-02

Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.	0.2 ppm	2002 ppm	High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31234799, -103.78504484	Yes

Daily Site Visit Report



2 ft.	0 ppm	92 ppm	High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		,	Yes
BH19-07								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.	5.2 ppm	106 ppm	High (300-6000ppm)	3120 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31260420, -103.78497668	Yes
2 ft.	0 ppm	177 ppm	High (300-6000ppm)	1679 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		,	Yes
BH19-08								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.	3.1 ppm	1646 ppm	High (300-6000ppm)	1679 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.312589804, -103.78490309	Yes
2 ft.	0 ppm	107 ppm	High (300-6000ppm)	1212 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		,	Yes
BH19-09								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.	0.9 ppm	351 ppm	High (300-6000ppm)	314 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31264502, -103.78489604	Yes

Daily Site Visit Report



2 ft.	0 ppm	94 ppm	High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		,	Yes
BH19-16								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.	1458 ppm	24610 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31239502, -103.78465406	Yes
2 ft.	1710 ppm	25610 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		,	Yes
4 ft.	337 ppm	14920 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		,	Yes
BH19-18								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.	1652 ppm	16790 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31228304, -103.78464965	Yes
2 ft.	199 ppm	15310 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		,	Yes
4 ft.	209 ppm	15470 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		,	Yes

Daily Site Visit Report



6 ft.	124 ppm	14870 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	,	Yes
8 ft.	212 ppm	18270 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	,	Yes
10 ft.	197 ppm	21050 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	,	Yes
12 ft.	241 ppm	20980 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	,	Yes
14 ft.	209 ppm	20060 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	,	Yes
16 ft.	200 ppm	18650 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	,	Yes
18 ft.	222 ppm	18940 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	,	Yes
20 ft.	4.7 ppm	730 ppm	High (300-6000ppm)	622 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	,	Yes
22 ft.	2.3 ppm	558 ppm	High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	,	Yes

Daily Site Visit Report



BH19-19

Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.	512 ppm	26000 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31230266, -103.78452152	Yes
2 ft.	398.2 ppm	20710 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		,	Yes
4 ft.	120 ppm	17820 ppm	High (300-6000ppm)	4775 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		,	Yes
6 ft.	22.3 ppm	500 ppm	High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		,	Yes

BH19-20

Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.	891 ppm	21460 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31236661, -103.78458706	Yes
2 ft.	799 ppm	20540 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		,	Yes
4 ft.	769 ppm	17770 ppm	High (300-6000ppm)	6143 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		,	Yes

Daily Site Visit Report



6 ft.	512 ppm	469 ppm	High (300-6000ppm)	519 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		,	Yes
SS19-01								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.	0.7 ppm	1871 ppm	High (300-6000ppm)	314 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31234057, -103.78510568	Yes
SS19-03								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.	0.1 ppm	1408 ppm	High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31237867, -103.78508475	Yes
SS19-04								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.	0.9 ppm	2181 ppm	High (300-6000ppm)	2584 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31224441, -103.78527409	Yes
SS19-06								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.	2.1 ppm	701 ppm	High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31208265, -103.78537694	Yes

Daily Site Visit Report



SS19-10									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	0 ft.	0 ppm	87 ppm	High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31241624, -103.78471199	Yes
SS19-11									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	0 ft.	0.2 ppm	63 ppm	High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31255788, -103.78461560	Yes
SS19-12									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	0 ft.	1.1 ppm	99 ppm	High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31240706, -103.78447305	Yes
SS19-13									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	0 ft.	1.7 ppm	131 ppm	High (300-6000ppm)	314 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31225989, -103.78459375	Yes



Daily Site Visit Report

SS19-14									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	0 ft.	3.6 ppm	2279 ppm	High (300-6000ppm)	274 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31249555, -103.78463563	Yes
SS19-15									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	0 ft.	2.1 ppm	1987 ppm	High (300-6000ppm)	314 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31250244, -103.78454630	Yes
SS19-17									
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	0 ft.	10.4 ppm	1143 ppm	High (300-6000ppm)	1030 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		32.31240271, -103.78464965	Yes

Daily Site Visit Report



Depth Sample Photos

Sample Point ID: BH19-02



Depth: 0 ft.

Sample Point ID: BH19-07



Depth: 0 ft.

Sample Point ID: BH19-08



Depth: 0 ft.

Sample Point ID: BH19-09



Depth: 0 ft.



Daily Site Visit Report

Sample Point ID: BH19-19



Depth: 0 ft.

Sample Point ID: BH19-18



Depth: 0 ft.

Sample Point ID: BH19-16



Depth: 0 ft.

Sample Point ID: Background19-01



Depth: 0 ft.



Daily Site Visit Report

Sample Point ID: BH19-20



Depth: 0 ft.

Sample Point ID: SS19-17



Depth: 0 ft.

Sample Point ID: SS19-15



Depth: 0 ft.

Sample Point ID: SS19-14



Depth: 0 ft.



Daily Site Visit Report

Sample Point ID: SS19-13



Depth: 0 ft.

Sample Point ID: SS19-12



Depth: 0 ft.

Sample Point ID: SS19-11



Depth: 0 ft.

Sample Point ID: SS19-10



Depth: 0 ft.



Daily Site Visit Report

Sample Point ID: SS19-06



Depth: 0 ft.

Sample Point ID: SS19-04



Depth: 0 ft.

Sample Point ID: SS19-03



Depth: 0 ft.

Sample Point ID: SS19-01



Depth: 0 ft.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Jason Crabtree

Signature:

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



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	5/18/2020
Site Location Name:	North Pure Gold 9 Fed 1H	Report Run Date:	5/28/2020 7:03 PM
Project Owner:		File (Project) #:	
Project Manager:		API #:	30-015-27178
Client Contact Name:	Amanda Davis	Reference	
Client Contact Phone #:	(575) 748-0176		

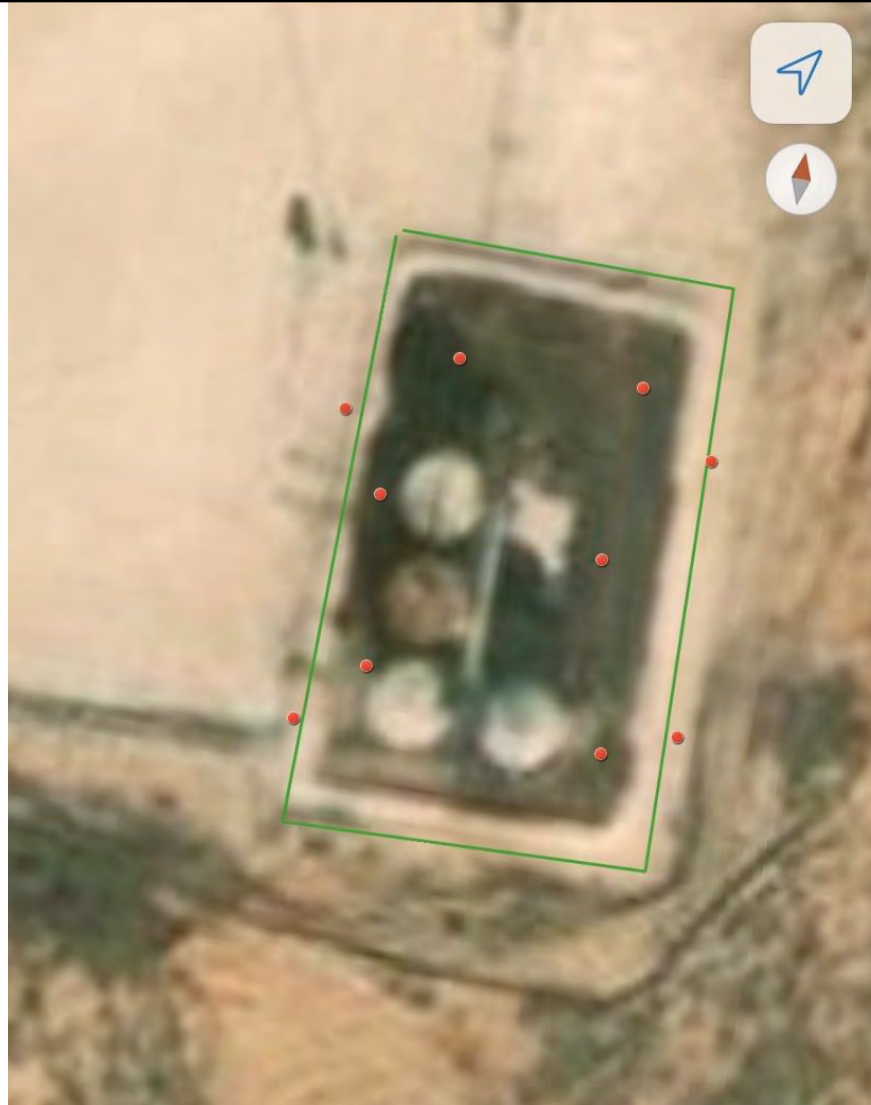
Summary of Times

Left Office	5/18/2020 10:11 AM
Arrived at Site	5/18/2020 10:11 AM
Departed Site	5/28/2020 3:30 PM
Returned to Office	5/18/2020 4:16 PM

Daily Site Visit Report



Site Sketch



Run on 5/28/2020 7:03 PM UTC

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Page 2 of 9



Daily Site Visit Report



Daily Site Visit Report



Summary of Daily Operations

11:06 Collect confirmatory samples inside containment. Collect field screens to ensure passing.

Next Steps & Recommendations

- 1** Submit confirmation samples for lab analysis.
- 2** Additional remediation if necessary
- 3** Submit closure report

Daily Site Visit Report



Site Photos

Viewing Direction: East



Containment Area

Viewing Direction: East



Remediated Area

Viewing Direction: East



Area applied with Remediat

Viewing Direction: South



Area applied with Remediat



Daily Site Visit Report

Viewing Direction: Southeast  Descriptive Photo Viewing Direction: Southeast Desc: Area applied with Remediat Created: 5/28/2020 11:04:50 AM Lat:32.385715, Long: -104.237921	Viewing Direction: South  Descriptive Photo Viewing Direction: South Desc: Area applied with Remediat Created: 5/28/2020 11:23:21 AM Lat:32.385717, Long: -104.237922
Area applied with Remediat	Area applied with Remediat
Viewing Direction: West  Descriptive Photo Viewing Direction: West Desc: Area applied with Remediat Created: 5/28/2020 11:54:28 AM Lat:32.385737, Long: -104.237923	Viewing Direction: North  Descriptive Photo Viewing Direction: North Desc: Area applied with Remediat Created: 5/28/2020 11:58:20 AM Lat:32.385685, Long: -104.237838
Area applied with Remediat	Area applied with Remediat

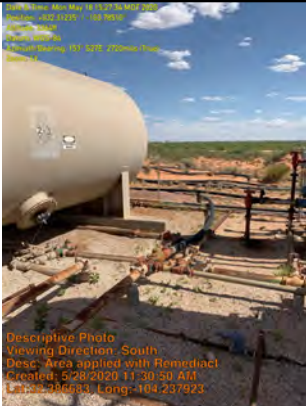


Daily Site Visit Report

Viewing Direction: South  Date: 6/28/2020 11:25:55 AM Time: 11:25:55 AM User: [redacted] Location: [redacted] Altitude: 104.237955 Lat: 32.366559, Long: -104.237955 Descriptive Photo Viewing Direction: South Date: Area applied with Remediat Created: 6/28/2020 11:25:55 AM Lat: 32.366559, Long: -104.237955	Viewing Direction: South  Date: 6/28/2020 11:25:55 AM Time: 11:25:55 AM User: [redacted] Location: [redacted] Altitude: 104.237955 Lat: 32.366559, Long: -104.237955 Descriptive Photo Viewing Direction: South Date: Area applied with Remediat Created: 6/28/2020 11:25:55 AM Lat: 32.366559, Long: -104.237955
Area adjacent to containment	Well pad
Viewing Direction: Southeast  Date: 6/28/2020 11:25:55 AM Time: 11:25:55 AM User: [redacted] Location: [redacted] Altitude: 104.237955 Lat: 32.366559, Long: -104.237955 Descriptive Photo Viewing Direction: West Date: Area applied with Remediat Created: 6/28/2020 11:25:55 AM Lat: 32.366559, Long: -104.237955	Viewing Direction: South  Date: 6/28/2020 11:25:55 AM Time: 11:25:55 AM User: [redacted] Location: [redacted] Altitude: 104.237955 Lat: 32.366559, Long: -104.237955 Descriptive Photo Viewing Direction: South Date: Area applied with Remediat Created: 6/28/2020 11:25:55 AM Lat: 32.366559, Long: -104.237955
Area applied with Remediat	Area applied with Remediat



Daily Site Visit Report

Viewing Direction: South  Describe Photo Viewing Direction: South Desc: Area applied with Remediat Created: 5/28/2020 11:30:50 AM Lat:32.385931, Long:-104.237923	Viewing Direction: South  Describe Photo Viewing Direction: South Desc: Area applied with Remediat Created: 5/28/2020 11:31:18 AM Lat:32.385931, Long:-104.237903
Area applied with Remediat	Area applied with Remediat
Viewing Direction: East  Describe Photo Viewing Direction: East Desc: Area applied with Remediat Created: 5/28/2020 11:31:58 AM Lat:32.385932, Long:-104.237932	
Area applied with Remediat	

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Kevin Smith

Signature:

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



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	8/20/2021
Site Location Name:	North Pure Gold 9 Fed 1H	Report Run Date:	8/20/2021 7:41 PM
Client Contact Name:	Wes Matthews	API #:	30-015-27178
Client Contact Phone #:	(575) 748-0176		
Unique Project ID	-North Pure Gold 9 Fed 1H	Project Owner:	Amanda Davis
Project Reference #	Historic Spills	Project Manager:	Dennis Williams

Summary of Times

Arrived at Site	8/20/2021 8:07 AM
Departed Site	8/20/2021 12:00 PM

Field Notes

8:09 Obtain horizontal delineation samples for spills numbers
2RP-1771+ 2RP-3805
2RP-4491
2RP-6

8:10 New ROW coming off access road to site, stemming Northwest to Southeast over spill area 2RP-1771 / 2RP-3805.

11:56 Obtaining surface samples ss21-01 to ss21-09

Next Steps & Recommendations

- 1 Submit surface samples taken to lab

Daily Site Visit Report



Site Photos

Viewing Direction: Southeast



Descriptive Photo - 1
Viewing Direction: Southeast
Desc: New road
Created: 6/23/2021 8:12:11 AM
Lat: 32.5286, Long: -103.785286

New road

Viewing Direction: Southwest



Descriptive Photo - 1
Viewing Direction: Southwest
Desc: Old southwest spill area where new road has been put
Created: 6/23/2021 8:12:55 AM
Lat: 32.5286, Long: -103.785286

Old southwest spill area where new road has been put

Viewing Direction: Northeast



Descriptive Photo - 2
Viewing Direction: Northeast
Desc: New road
Created: 6/23/2021 8:12:55 AM
Lat: 32.511616, Long: -103.785286

New road

Viewing Direction: Northwest



Descriptive Photo - 3
Viewing Direction: Northwest
Desc: New road
Created: 6/23/2021 8:13:54 AM
Lat: 32.511616, Long: -103.785286

New road



Daily Site Visit Report

Viewing Direction: North



East side of tank battery

Viewing Direction: Southwest



South side of tank battery

Viewing Direction: West



East side of production area

Viewing Direction: West



North side of production area



Daily Site Visit Report

Viewing Direction: Southwest



South side of production area

Viewing Direction: East



West side of production area

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Austin Harris

Signature:

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

Signature



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	5/1/2025
Site Location Name:	North Pure Gold 9 Fed 1H	Report Run Date:	5/2/2025 12:03 AM
Client Contact Name:	Jim Raley	API #:	30-015-27178
Client Contact Phone #:	575-748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	5/1/2025 7:10 AM
Departed Site	5/1/2025 4:30 PM

Daily Site Visit Report



Site Sketch

Site Sketch

Daily Site Visit Report



Field Notes

8:02 Line sweep has been completed. Confirmation samples will be collected.

8:14 Confirmation sites have been marked with a white flag

15:54 Work scope: to conduct confirmation sampling (5 boreholes per sample)

Next Steps & Recommendations

1 Send confirmations samples to lab for lab analysis. Once lab analysis has been completed we can begin to decide what the next step is.

Daily Site Visit Report



Site Photos

Viewing Direction: Southeast



BS25-24 - 5 boreholes per base sample at 1ft.

Viewing Direction: Southeast



BS25-23 - 5 boreholes per base sample at 1ft.

Viewing Direction: Southwest



BS24-22 - 5 boreholes per base sample at 1ft.

Viewing Direction: Southeast



BS25-21 - 5 boreholes per base sample at 1ft.



Daily Site Visit Report

Viewing Direction: Southwest  BS25-20 - 5 boreholes per base sample at 1ft. Did not extend further to the west due to road traffic	Viewing Direction: Northwest  BS25-19 - 5 boreholes per base sample at 1ft. Did not extend further to the west due to road traffic
Viewing Direction: Southeast  BS25-26 - 5 boreholes per base sample at 1ft-2ft.	Viewing Direction: Southeast  BS25-27 - 5 boreholes per base sample at 1ft-2ft.



Daily Site Visit Report

Viewing Direction: Southeast



BS25-25 - 5 boreholes per base sample at 1ft-2ft.

Viewing Direction: Southeast



BS25-30 - 5 boreholes per base sample at 1ft-2ft.

Viewing Direction: Northwest



BS25-28 - 5 boreholes per base sample at 1ft.

Viewing Direction: Southeast



BS25-31 - 5 boreholes per base sample at 1ft.



Daily Site Visit Report

Viewing Direction: Northwest



BS25-29 - 5 boreholes per base sample at 1ft.

Viewing Direction: South



BS25-40 - 5 boreholes per base sample at 2ft.

Viewing Direction: Northwest



BS25-39 - 5 boreholes per base sample at 2ft.

Viewing Direction: North



BS25-32 - 5 boreholes per base sample at 2ft.



Daily Site Visit Report

Viewing Direction: South



BS25-60 - 5 boreholes per base sample at 2ft.

Viewing Direction: Northwest



BS25-41 - 5 boreholes per base sample at 2ft.

Viewing Direction: North



BS25-38 - 5 boreholes per base sample at 2ft.

Viewing Direction: North



BS25-33 - 5 boreholes per base sample at 2ft.



Daily Site Visit Report

Viewing Direction: Northeast



BS25-34 - 5 boreholes per base sample at 2ft.

Viewing Direction: East



BS25-35 - 5 boreholes per base sample at 2ft.

Viewing Direction: South



BS25-36 - 5 boreholes per base sample at 2ft.

Viewing Direction: West



BS25-37 - 5 boreholes per base sample at 2ft.



Daily Site Visit Report

Viewing Direction: South



BS25-42 - 5 boreholes per base sample at 2ft.

Viewing Direction: East



BS25-59 - 5 boreholes per base sample at 2ft.

Viewing Direction: East



BS25-43 - 5 boreholes per base sample at 2ft.

Viewing Direction: West



BS25-45 - 5 boreholes per base sample at 2ft.



Daily Site Visit Report

Viewing Direction: North



BS24-48 - 5 boreholes per base sample at 2ft.

Viewing Direction: East



BS25-51 - 5 boreholes per base sample at 2ft.

Viewing Direction: South



BS25-52 - 5 boreholes per base sample at 2ft.

Viewing Direction: East



BS25-49 - 5 boreholes per base sample at 2ft.



Daily Site Visit Report

Viewing Direction: South



BS25-50 - 5 boreholes per base sample at 2ft.

Viewing Direction: South



BS25-58 - 5 boreholes per base sample at 2ft.

Viewing Direction: West



BS25-57 - 5 boreholes per base sample at 2ft.

Viewing Direction: West



BS25-56 - 5 boreholes per base sample at 2ft.



Daily Site Visit Report

Viewing Direction: West



BS25-55 - 5 boreholes per base sample at 2ft.

Viewing Direction: Northwest



BS25-54 - 5 boreholes per base sample at 2ft.

Viewing Direction: East



BS25-53 - 5 boreholes per base sample at 2ft.

Viewing Direction: East



BS25-46 - 5 boreholes per base sample at 2ft.



Daily Site Visit Report

Viewing Direction: Northeast



Southeast side has been covered looking towards the northwest

Viewing Direction: West



South side of pad has been covered where tanks and containment are present

Viewing Direction: South



Site has been covered from the southwest side looking towards the south.

Viewing Direction: Southeast



Site has been covered from the northwest site looking towards the southeast



Daily Site Visit Report

Viewing Direction: Southwest



Site has been covered from the northeast side looking towards the southwest

Viewing Direction: Southwest



Site has been covered from the northeast side looking towards the southwest

Viewing Direction: Northeast



Southeast side has been covered looking towards the northwest

Viewing Direction: Southwest



Site has been covered from the southwest side looking towards the northeast



Daily Site Visit Report

Viewing Direction: Southeast



Site has been covered from the northwest site looking towards the southeast

Viewing Direction: Southeast



Site has been covered from the northwest site looking towards the southeast

Viewing Direction: Southeast



Site has been covered from the northeast side looking towards the southwest

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Sharon Minnix

Signature: 
Signature



Daily Site Visit Report

Client:	Devon Energy Corporation	Incident ID #:	
Site Location Name:	North Pure Gold 9 Fed 1H	API #:	30-015-27178
Inspection Date:	5/7/2025		

Summary of Times

Arrived at Site	5/7/2025 9:30 AM
Departed Site	5/7/2025 1:00 PM

Field Notes

- 12:19** Completed safety paperwork and site walkthrough with a magnetic line locator in areas of planned ground disturbance upon arrival. No magnetic anomalies were discovered at that time.
- 12:21** Collected BS25-42, BS25-44, and BS25-47 at 2ft bgs. All samples that were collected were 5-point composite samples and field screened for chlorides using silver nitrate titration and TPH using a Dexsil Petroflag. All samples met NMOCD criteria.
- 12:21** The collected samples were jarred to be sent to the lab for further analysis.
- 15:07** The adjacent pastures are observed to be in good health condition.

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: North



BS25-42 at 2ft bgs. Sample point is a 5-point composite taken retroactively with a hand auger.

Viewing Direction: East



BS25-44 at 2ft bgs. Sample point is a 5-point composite taken retroactively with a hand auger.



Daily Site Visit Report

Viewing Direction: West



BS25-47 at 2ft bgs. Sample point is a 5-point composite taken retroactively with a hand auger.

Viewing Direction: South



Overview of the sampling area inside the containment.

Viewing Direction: Southeast



Adjacent pasture east of the containment.

Viewing Direction: South



West side of the containment



Daily Site Visit Report

Viewing Direction: West



West side of the heater treaters and separators.

Viewing Direction: South



Overview of the sampling area located near the heater treaters and separators.

Viewing Direction: South



Overview of the sampling area located near the heater treaters and separators.

Viewing Direction: South



Pasture south of the heater treaters and separators.



Daily Site Visit Report

Viewing Direction: North



Overview of the sampling area located near the heater treaters and separators.

Viewing Direction: North



Overview of the sampling area located near the heater treaters and separators.

Viewing Direction: East



Pipelines running from the containment to the separators.

Viewing Direction: East



Overview of the west side of the containment.



Daily Site Visit Report

Viewing Direction: Southwest



Overview of the separators.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: John Rewis

Signature:

A handwritten signature in black ink, appearing to be 'JR', written over a horizontal line. The word 'Signature' is faintly visible to the left of the line.

APPENDIX D – Notifications

Natalie Gordon

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Sent: Wednesday, May 13, 2020 6:27 PM
To: Natalie Gordon
Subject: Fwd: North Pure Gold 9 Fed #001 - 48-hr Notification of Confirmatory Sampling (Devon)

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

From: **Dhugal Hanton** <vertexresourcegroupusa@gmail.com>
Date: Wed, May 13, 2020 at 6:25 PM
Subject: North Pure Gold 9 Fed #001 - 48-hr Notification of Confirmatory Sampling (Devon)
To: Bratcher, Mike, EMNRD <Mike.Bratcher@state.nm.us>, Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>, Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>, Kelsey <KWade@blm.gov>, Amos, James A <Jamos@blm.gov>
Cc: <amanda.davis@dvn.com>, <wesley.mathews@dvn.com>, <Lupe.Carrasco@dvn.com>, <tom.bynum@dvn.com>

All,

Please accept this email as 48-hr notification that Vertex Resource Services Inc. has scheduled some additional confirmatory sampling to be conducted at North Pure Gold 9 Fed #001 for the following open historical releases:

- | | | | |
|----|----------------|----------|------------------------|
| 1. | NAB1918631481 | 2RP-5509 | DOR: December 9, 2018 |
| 2. | NAB1732449577 | 2RP-4491 | DOR: November 12, 2017 |
| 3. | NAB1621055488 | 2RP-3805 | DOR: July 24, 2016 |
| 4. | NJMW1321055692 | 2RP-1771 | DOR: July 25, 2013 |
| 5. | Unknown | 2RP-6 | DOR: 2007 |

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

On Monday, May 18, 2020 at approximately 10:00 a.m., Kevin Smith of Vertex will be onsite to conduct confirmatory sampling in the areas that had previously been treated with in-situ remediation product. He can be reached at 575-988-0871. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 505-506-0040.

Thank you,
Natalie

Natalie Gordon
Project Manager

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

P 575.725.5001 ext 709
C 505.506.0040
F

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 457099

QUESTIONS

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 457099
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1918631481
Incident Name	NAB1918631481 NORTH PURE GOLD 9 FEDERAL #001 @ 30-015-27178
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-27178] NORTH PURE GOLD 9 FEDERAL #001

Location of Release Source	
Site Name	NORTH PURE GOLD 9 FEDERAL #001
Date Release Discovered	12/09/2018
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	3,000
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/02/2025
Time sampling will commence	10:05 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar 575.361.3561
Please provide any information necessary for navigation to sampling site	From the intersection of US-62/180 and US-285, drive southeast on US-285 for 7.7 miles and turn left on NM-31. Drive east on NM-31 for 7.7 miles and turn right onto NM-128. Drive east/southeast on NM-128 for 13.0 miles and turn left on lease road. Drive east/north on lease road for 1.42 miles and turn right on lease road. Drive southeast on lease road for 0.56 miles and turn left into North Pure Gold 9 Federal #001 facility location. Work area is south and east sides of oil well and facility pad North Pure Gold 9 Federal #001. We will be collecting samples in/around the tank battery on the east side of the pad, in/around the production equipment on the south side of the pad, in the pasture southwest of the production equipment. We will be soil sampling with hand tools. The coordinates of the six-corners of the work area are marked with white stakes and clusters of white flags.

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

CONDITIONS

Action 457099

CONDITIONS

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 457099
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
rkidd	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	4/30/2025

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

Action 458332

QUESTIONS

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 458332
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1918631481
Incident Name	NAB1918631481 NORTH PURE GOLD 9 FEDERAL #001 @ 30-015-27178
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-27178] NORTH PURE GOLD 9 FEDERAL #001

Location of Release Source	
Site Name	NORTH PURE GOLD 9 FEDERAL #001
Date Release Discovered	12/09/2018
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	600
What is the estimated number of samples that will be gathered	3
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/07/2025
Time sampling will commence	09:15 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar 575.361.3561
Please provide any information necessary for navigation to sampling site	From the intersection of US-62/180 and US-285, drive southeast on US-285 for 7.7 miles and turn left on NM-31. Drive east on NM-31 for 7.7 miles and turn right onto NM-128. Drive east/southeast on NM-128 for 13.0 miles and turn left on lease road. Drive east/north on lease road for 1.42 miles and turn right on lease road. Drive southeast on lease road for 0.56 miles and turn left into North Pure Gold 9 Federal #001 facility location. Work area is south and east sides of oil well and facility pad North Pure Gold 9 Federal #001. We will be collecting samples in/around the tank battery on the east side of the pad, in/around the production equipment on the south side of the pad, in the pasture southwest of the production equipment. We will be soil sampling with hand tools. The coordinates of the six-corners of the work area are marked with white stakes and clusters of white flags.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 458332

CONDITIONS

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 458332
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
rkidd	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/5/2025

APPENDIX E – Laboratory Data Reports and Chain of Custody Forms



Analytical Report

Report Summary

Client: Devon Energy - Carlsbad

Samples Received: 5/14/2019

Job Number: 19031-0001

Work Order: P905047

Project Name/Location: North Pure Gold 9 Fed #1

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 5/20/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.



Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: North Pure Gold 9 Fed #1
Project Number: 19031-0001
Project Manager: Amanda Davis

Reported:
05/20/19 16:04

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH19-01 2'	P905047-01A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
BH19-02 2'	P905047-02A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
TP19-03 2'	P905047-03A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
BH19-04 2'	P905047-04A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
BH19-05 0'	P905047-05A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
BH19-06 2'	P905047-06A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
TP19-07 4'	P905047-07A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
TP19-08 4'	P905047-08A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
TP19-09 4'	P905047-09A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
TP19-10 1'	P905047-10A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
TP19-11 1'	P905047-11A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
TP19-12 1'	P905047-12A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
TP19-13 1'	P905047-13A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
TP19-14 2'	P905047-14A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
TP19-15 2'	P905047-15A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
TP19-16 6'	P905047-16A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
TP19-17 2'	P905047-17A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
TP19-18 8'	P905047-18A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.
TP19-19 8'	P905047-19A	Soil	05/12/19	05/14/19	Glass Jar, 4 oz.

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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

BH19-01 2'
P905047-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	1920021	05/14/19	05/17/19	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1920020	05/14/19	05/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1920020	05/14/19	05/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %		50-150	1920021	05/14/19	05/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		93.3 %		50-200	1920020	05/14/19	05/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

BH19-02 2'
P905047-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>100 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/17/19</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8015D	
Diesel Range Organics (C10-C28)	2030	125	mg/kg	5	1920020	05/14/19	05/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	1140	250	mg/kg	5	1920020	05/14/19	05/15/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>90.5 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/17/19</i>	<i>EPA 8015D</i>	
<i>Surrogate: n-Nonane</i>		<i>119 %</i>		<i>50-200</i>	<i>1920020</i>	<i>05/14/19</i>	<i>05/15/19</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

TP19-03 2'
P905047-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>101 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/17/19</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8015D	
Diesel Range Organics (C10-C28)	27.8	25.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>93.2 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/17/19</i>	<i>EPA 8015D</i>	
<i>Surrogate: n-Nonane</i>		<i>98.1 %</i>		<i>50-200</i>	<i>1920020</i>	<i>05/14/19</i>	<i>05/15/19</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

BH19-04 2'
P905047-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>101 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/17/19</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1920020	05/14/19	05/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	65.5	50.0	mg/kg	1	1920020	05/14/19	05/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>92.1 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/17/19</i>	<i>EPA 8015D</i>	
<i>Surrogate: n-Nonane</i>		<i>100 %</i>		<i>50-200</i>	<i>1920020</i>	<i>05/14/19</i>	<i>05/14/19</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

BH19-05 0'
P905047-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>101 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/17/19</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>92.9 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/17/19</i>	<i>EPA 8015D</i>	
<i>Surrogate: n-Nonane</i>		<i>99.2 %</i>		<i>50-200</i>	<i>1920020</i>	<i>05/14/19</i>	<i>05/15/19</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

BH19-06 2'
P905047-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>104 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/17/19</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1920020	05/14/19	05/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1920020	05/14/19	05/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>91.1 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/17/19</i>	<i>EPA 8015D</i>	
<i>Surrogate: n-Nonane</i>		<i>94.9 %</i>		<i>50-200</i>	<i>1920020</i>	<i>05/14/19</i>	<i>05/14/19</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	78.6	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

TP19-07 4'
P905047-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>103 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/17/19</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1920020	05/14/19	05/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1920020	05/14/19	05/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>92.0 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/17/19</i>	<i>EPA 8015D</i>	
<i>Surrogate: n-Nonane</i>		<i>111 %</i>		<i>50-200</i>	<i>1920020</i>	<i>05/14/19</i>	<i>05/14/19</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	86.9	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	Reported: 05/20/19 16:04
6488 7 Rivers Hwy	Project Number:	19031-0001	
Artesia NM, 88210	Project Manager:	Amanda Davis	

TP19-08 4'
P905047-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	1920021	05/14/19	05/17/19	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1920020	05/14/19	05/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1920020	05/14/19	05/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.0 %		50-150	1920021	05/14/19	05/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		95.7 %		50-200	1920020	05/14/19	05/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	202	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

TP19-09 4'
P905047-09 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>104 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/17/19</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1920020	05/14/19	05/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1920020	05/14/19	05/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>93.0 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/17/19</i>	<i>EPA 8015D</i>	
<i>Surrogate: n-Nonane</i>		<i>99.3 %</i>		<i>50-200</i>	<i>1920020</i>	<i>05/14/19</i>	<i>05/14/19</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

TP19-10 1'
P905047-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	1920021	05/14/19	05/17/19	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/17/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1920020	05/14/19	05/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1920020	05/14/19	05/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %		50-150	1920021	05/14/19	05/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		93.3 %		50-200	1920020	05/14/19	05/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	Reported: 05/20/19 16:04
6488 7 Rivers Hwy	Project Number:	19031-0001	
Artesia NM, 88210	Project Manager:	Amanda Davis	

TP19-11 1'
P905047-11 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>103 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/18/19</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1920020	05/14/19	05/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1920020	05/14/19	05/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>91.2 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/18/19</i>	<i>EPA 8015D</i>	
<i>Surrogate: n-Nonane</i>		<i>91.1 %</i>		<i>50-200</i>	<i>1920020</i>	<i>05/14/19</i>	<i>05/14/19</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

TP19-12 1'
P905047-12 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	1920021	05/14/19	05/18/19	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.1 %		50-150	1920021	05/14/19	05/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		99.2 %		50-200	1920020	05/14/19	05/15/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

TP19-13 1'
P905047-13 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	1920021	05/14/19	05/18/19	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.6 %		50-150	1920021	05/14/19	05/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		103 %		50-200	1920020	05/14/19	05/15/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

TP19-14 2'
P905047-14 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>104 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/18/19</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>91.7 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/18/19</i>	<i>EPA 8015D</i>	
<i>Surrogate: n-Nonane</i>		<i>99.1 %</i>		<i>50-200</i>	<i>1920020</i>	<i>05/14/19</i>	<i>05/15/19</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	3100	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

TP19-15 2'
P905047-15 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>104 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/18/19</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>91.8 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/18/19</i>	<i>EPA 8015D</i>	
<i>Surrogate: n-Nonane</i>		<i>94.0 %</i>		<i>50-200</i>	<i>1920020</i>	<i>05/14/19</i>	<i>05/15/19</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

TP19-16 6'
P905047-16 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Toluene	0.0324	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Ethylbenzene	0.148	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
p,m-Xylene	0.611	0.0500	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
o-Xylene	0.221	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Total Xylenes	0.832	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>106 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/18/19</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	216	25.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>95.8 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/18/19</i>	<i>EPA 8015D</i>	
<i>Surrogate: n-Nonane</i>		<i>99.6 %</i>		<i>50-200</i>	<i>1920020</i>	<i>05/14/19</i>	<i>05/15/19</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	32.3	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

TP19-17 2'
P905047-17 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Ethylbenzene	0.123	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
p,m-Xylene	0.505	0.0500	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
o-Xylene	0.104	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
Total Xylenes	0.610	0.0250	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>102 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/18/19</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	22.2	20.0	mg/kg	1	1920021	05/14/19	05/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	926	25.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	199	50.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>93.1 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/18/19</i>	<i>EPA 8015D</i>	
<i>Surrogate: n-Nonane</i>		<i>101 %</i>		<i>50-200</i>	<i>1920020</i>	<i>05/14/19</i>	<i>05/15/19</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	144	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

TP19-18 8'
P905047-18 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	2.20	0.250	mg/kg	10	1920021	05/14/19	05/20/19	EPA 8021B	
Toluene	32.5	0.250	mg/kg	10	1920021	05/14/19	05/20/19	EPA 8021B	
Ethylbenzene	14.3	0.250	mg/kg	10	1920021	05/14/19	05/20/19	EPA 8021B	
p,m-Xylene	62.6	0.500	mg/kg	10	1920021	05/14/19	05/20/19	EPA 8021B	
o-Xylene	19.3	0.250	mg/kg	10	1920021	05/14/19	05/20/19	EPA 8021B	
Total Xylenes	81.9	0.250	mg/kg	10	1920021	05/14/19	05/20/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.4 %		50-150	1920021	05/14/19	05/20/19	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	1270	200	mg/kg	10	1920021	05/14/19	05/20/19	EPA 8015D	
Diesel Range Organics (C10-C28)	14800	250	mg/kg	10	1920020	05/14/19	05/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	2430	500	mg/kg	10	1920020	05/14/19	05/15/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %		50-150	1920021	05/14/19	05/20/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		472 %		50-200	1920020	05/14/19	05/15/19	EPA 8015D	Surr2

Anions by 300.0/9056A

Chloride	1170	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

TP19-19 8'
P905047-19 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/20/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1920021	05/14/19	05/20/19	EPA 8021B	
Ethylbenzene	0.134	0.0250	mg/kg	1	1920021	05/14/19	05/20/19	EPA 8021B	
p,m-Xylene	0.0622	0.0500	mg/kg	1	1920021	05/14/19	05/20/19	EPA 8021B	
o-Xylene	0.0383	0.0250	mg/kg	1	1920021	05/14/19	05/20/19	EPA 8021B	
Total Xylenes	0.100	0.0250	mg/kg	1	1920021	05/14/19	05/20/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>110 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/20/19</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1920021	05/14/19	05/20/19	EPA 8015D	
Diesel Range Organics (C10-C28)	1210	25.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	294	50.0	mg/kg	1	1920020	05/14/19	05/15/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>91.2 %</i>		<i>50-150</i>	<i>1920021</i>	<i>05/14/19</i>	<i>05/20/19</i>	<i>EPA 8015D</i>	
<i>Surrogate: n-Nonane</i>		<i>120 %</i>		<i>50-200</i>	<i>1920020</i>	<i>05/14/19</i>	<i>05/15/19</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	259	20.0	mg/kg	1	1920026	05/15/19	05/15/19	EPA 300.0/9056A	
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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1920021 - Purge and Trap EPA 5030A

Blank (1920021-BLK1)

Prepared: 05/14/19 1 Analyzed: 05/17/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID 8.24 " 8.00 103 50-150

LCS (1920021-BS1)

Prepared: 05/14/19 1 Analyzed: 05/17/19 1

Benzene	4.53	0.0250	mg/kg	5.00		90.7	70-130			
Toluene	4.93	0.0250	"	5.00		98.7	70-130			
Ethylbenzene	4.93	0.0250	"	5.00		98.6	70-130			
p,m-Xylene	10.2	0.0500	"	10.0		102	70-130			
o-Xylene	4.97	0.0250	"	5.00		99.3	70-130			
Total Xylenes	15.2	0.0250	"	15.0		101	70-130			

Surrogate: 4-Bromochlorobenzene-PID 8.23 " 8.00 103 50-150

Matrix Spike (1920021-MS1)

Source: P905047-01

Prepared: 05/14/19 1 Analyzed: 05/17/19 1

Benzene	4.18	0.0250	mg/kg	5.00	ND	83.5	54.3-133			
Toluene	4.55	0.0250	"	5.00	ND	91.0	61.4-130			
Ethylbenzene	4.55	0.0250	"	5.00	ND	91.0	61.4-133			
p,m-Xylene	9.42	0.0500	"	10.0	ND	94.2	63.3-131			
o-Xylene	4.58	0.0250	"	5.00	ND	91.6	63.3-131			
Total Xylenes	14.0	0.0250	"	15.0	ND	93.3	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID 8.11 " 8.00 101 50-150

Matrix Spike Dup (1920021-MSD1)

Source: P905047-01

Prepared: 05/14/19 1 Analyzed: 05/17/19 1

Benzene	4.36	0.0250	mg/kg	5.00	ND	87.3	54.3-133	4.37	20	
Toluene	4.75	0.0250	"	5.00	ND	95.1	61.4-130	4.38	20	
Ethylbenzene	4.76	0.0250	"	5.00	ND	95.3	61.4-133	4.63	20	
p,m-Xylene	9.85	0.0500	"	10.0	ND	98.5	63.3-131	4.49	20	
o-Xylene	4.79	0.0250	"	5.00	ND	95.8	63.3-131	4.48	20	
Total Xylenes	14.6	0.0250	"	15.0	ND	97.6	63.3-131	4.49	20	

Surrogate: 4-Bromochlorobenzene-PID 8.17 " 8.00 102 50-150

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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1920020 - DRO Extraction EPA 3570

Blank (1920020-BLK1)

Prepared & Analyzed: 05/14/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: <i>n</i> -Nonane	47.3		"	50.0		94.7	50-200			

LCS (1920020-BS1)

Prepared & Analyzed: 05/14/19 1

Diesel Range Organics (C10-C28)	461	25.0	mg/kg	500		92.2	38-132			
Surrogate: <i>n</i> -Nonane	46.9		"	50.0		93.8	50-200			

Matrix Spike (1920020-MS1)

Source: P905047-01

Prepared & Analyzed: 05/14/19 1

Diesel Range Organics (C10-C28)	492	25.0	mg/kg	500	ND	98.3	38-132			
Surrogate: <i>n</i> -Nonane	48.5		"	50.0		97.1	50-200			

Matrix Spike Dup (1920020-MSD1)

Source: P905047-01

Prepared: 05/14/19 1 Analyzed: 05/15/19 1

Diesel Range Organics (C10-C28)	443	25.0	mg/kg	500	ND	88.5	38-132	10.5	20	
Surrogate: <i>n</i> -Nonane	45.9		"	50.0		91.8	50-200			

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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1920021 - Purge and Trap EPA 5030A

Blank (1920021-BLK1)

Prepared: 05/14/19 1 Analyzed: 05/17/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		"	8.00		92.1	50-150			

LCS (1920021-BS2)

Prepared: 05/14/19 1 Analyzed: 05/17/19 1

Gasoline Range Organics (C6-C10)	51.8	20.0	mg/kg	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		"	8.00		93.8	50-150			

Matrix Spike (1920021-MS2)

Source: P905047-01

Prepared: 05/14/19 1 Analyzed: 05/17/19 1

Gasoline Range Organics (C6-C10)	49.0	20.0	mg/kg	50.0	ND	97.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		"	8.00		93.8	50-150			

Matrix Spike Dup (1920021-MSD2)

Source: P905047-01

Prepared: 05/14/19 1 Analyzed: 05/17/19 1

Gasoline Range Organics (C6-C10)	47.4	20.0	mg/kg	50.0	ND	94.7	70-130	3.35	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		"	8.00		93.7	50-150			

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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Amanda Davis	05/20/19 16:04

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1920026 - Anion Extraction EPA 300.0/9056A**Blank (1920026-BLK1)**

Prepared: 05/15/19 0 Analyzed: 05/15/19 1

Chloride ND 20.0 mg/kg

LCS (1920026-BS1)

Prepared: 05/15/19 0 Analyzed: 05/15/19 1

Chloride 251 20.0 mg/kg 250 100 90-110

Matrix Spike (1920026-MS1)**Source: P905047-01**

Prepared: 05/15/19 0 Analyzed: 05/15/19 1

Chloride 272 20.0 mg/kg 250 ND 109 80-120

Matrix Spike Dup (1920026-MSD1)**Source: P905047-01**

Prepared: 05/15/19 0 Analyzed: 05/15/19 1

Chloride 273 20.0 mg/kg 250 ND 109 80-120 0.400 20

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Devon Energy - Carlsbad	Project Name:	North Pure Gold 9 Fed #1	Reported: 05/20/19 16:04
6488 7 Rivers Hwy	Project Number:	19031-0001	
Artesia NM, 88210	Project Manager:	Amanda Davis	

Notes and Definitions

Surr2 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

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Pura Gold 9 Fed #1
 Client: Duron Energy
 Project: ~~Permian~~
 Project Manager: Amanda Davis
 Address: 6498 7 Rivers Highway
 City, State, Zip: Artesia, NM, 88210
 Phone: 575 748 0176
 Email: amanda.davis@dmn.com

Report Attention
 Report due by: 7 days
 Attention: Dennis Williams
 Address: 213 S Mesa St
 City, State, Zip: Carlsbad, NM, 88220
 Phone: 575-361-1137
 Email: dwilliams@Vertex.ca
Permian@Vertex.ca

Lab Use Only
 Lab WO# P905047 Job Number 19031-0001
TAT
 1D 3D
EPA Program
 RCRA CWA SDWA

Analysis and Method
 DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 TPH 418.1
State
 NM CO UT AZ
☒ ☐ ☐ ☐

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1	Remarks
1:05 PM	05-12-2019	Soil		BH19-01 2'	1	✓	✓	✓			✓		
1:15 PM	05-12-2019	Soil		BH19-02 2'	2	✓	✓	✓			✓		
1:25 PM	05-12-2019	Soil		TP19-03 2'	3	✓	✓	✓			✓		
1:35 PM	05-12-2019	Soil		BH19-04 2'	4	✓	✓	✓			✓		
1:45 PM	05-12-2019	Soil		BH19-05 0'	5	✓	✓	✓			✓		
1:55 PM	05-12-2019	Soil		BH19-06 2'	6	✓	✓	✓			✓		
2:05 PM	05-12-2019	Soil		TP19-07 4'	7	✓	✓	✓			✓		
2:15 PM	05-12-2019	Soil		TP19-08 4'	8	✓	✓	✓			✓		
2:25 PM	05-12-2019	Soil		TP19-09 4'	9	✓	✓	✓			✓		
2:35 PM	05-12-2019	Soil		TP19-10 1'	10	✓	✓	✓			✓		

Additional Instructions:

Bill Vertex - Per Client 5/14/19 *[Signature]*

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jason Crabtree

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature) <i>[Signature]</i>	Date 5-12-2019	Time 4:00 PM	Received by: (Signature) <i>[Signature]</i>	Date 5-12-2019	Time 4:00 PM	Lab Use Only
Relinquished by: (Signature) <i>[Signature]</i>	Date 5-13-19	Time 12:15	Received by: (Signature) <i>[Signature]</i>	Date 5-13-19	Time 12:15	Received on ice: <u>Y</u> / N
						T1 T2 T3
						AVG Temp °C <u>4</u>

Sample Matrix: S - Soil, Sg - Solid, Sg - Sludge, A - Aqueous, O - Other: Permian
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

[illegible]

Additional Instructions:

Bill Vertex - Perchut 5/14/19 JAM

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jason Crabtree

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature) 	Date 5-12-2019	Time 4:00 PM	Received by: (Signature) 	Date 5-12-2019	Time 4:00 PM	Lab Use Only Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C _____
Relinquished by: (Signature) 	Date 5-13-19	Time 12:15	Received by: (Signature) Courtney Stovall	Date 5-13-19	Time 12:15	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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

August 05, 2019

Dennis Williams

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 888210

TEL: (575) 748-0176

FAX

RE: North Pure Gold 9 Fed 1

OrderNo.: 1907D74

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 44 sample(s) on 7/26/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-01 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 9:30:00 AM

Lab ID: 1907D74-001

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	740	95		mg/Kg	10	7/29/2019 7:33:22 PM
Motor Oil Range Organics (MRO)	1200	470		mg/Kg	10	7/29/2019 7:33:22 PM
Surr: DNOP	0	70-130	S	%Rec	10	7/29/2019 7:33:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	46	D	mg/Kg	10	7/30/2019 11:02:04 PM
Surr: BFB	102	73.8-119	D	%Rec	10	7/30/2019 11:02:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.23	D	mg/Kg	10	7/30/2019 11:02:04 PM
Toluene	1.1	0.46	D	mg/Kg	10	7/30/2019 11:02:04 PM
Ethylbenzene	ND	0.46	D	mg/Kg	10	7/30/2019 11:02:04 PM
Xylenes, Total	2.1	0.92	D	mg/Kg	10	7/30/2019 11:02:04 PM
Surr: 4-Bromofluorobenzene	98.9	80-120	D	%Rec	10	7/30/2019 11:02:04 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	7/30/2019 10:35:32 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-02 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 9:35:00 AM

Lab ID: 1907D74-002

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	650	93		mg/Kg	10	7/29/2019 8:22:11 PM
Motor Oil Range Organics (MRO)	1100	460		mg/Kg	10	7/29/2019 8:22:11 PM
Surr: DNOP	0	70-130	S	%Rec	10	7/29/2019 8:22:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	46	D	mg/Kg	10	7/30/2019 11:25:37 PM
Surr: BFB	105	73.8-119	D	%Rec	10	7/30/2019 11:25:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.23	D	mg/Kg	10	7/30/2019 11:25:37 PM
Toluene	0.70	0.46	D	mg/Kg	10	7/30/2019 11:25:37 PM
Ethylbenzene	ND	0.46	D	mg/Kg	10	7/30/2019 11:25:37 PM
Xylenes, Total	1.5	0.92	D	mg/Kg	10	7/30/2019 11:25:37 PM
Surr: 4-Bromofluorobenzene	104	80-120	D	%Rec	10	7/30/2019 11:25:37 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	7/30/2019 10:47:56 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-02 2'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 9:40:00 AM

Lab ID: 1907D74-003

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/29/2019 9:11:17 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/29/2019 9:11:17 PM
Surr: DNOP	100	70-130		%Rec	1	7/29/2019 9:11:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/30/2019 11:49:09 PM
Surr: BFB	93.9	73.8-119		%Rec	1	7/30/2019 11:49:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/30/2019 11:49:09 PM
Toluene	ND	0.048		mg/Kg	1	7/30/2019 11:49:09 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/30/2019 11:49:09 PM
Xylenes, Total	ND	0.095		mg/Kg	1	7/30/2019 11:49:09 PM
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	7/30/2019 11:49:09 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	7/30/2019 11:00:21 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-03 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 9:45:00 AM

Lab ID: 1907D74-004

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/29/2019 9:35:49 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/29/2019 9:35:49 PM
Surr: DNOP	101	70-130		%Rec	1	7/29/2019 9:35:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/31/2019 12:12:41 AM
Surr: BFB	93.7	73.8-119		%Rec	1	7/31/2019 12:12:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/31/2019 12:12:41 AM
Toluene	ND	0.046		mg/Kg	1	7/31/2019 12:12:41 AM
Ethylbenzene	ND	0.046		mg/Kg	1	7/31/2019 12:12:41 AM
Xylenes, Total	ND	0.092		mg/Kg	1	7/31/2019 12:12:41 AM
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	7/31/2019 12:12:41 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	7/30/2019 11:12:45 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-04 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 9:50:00 AM

Lab ID: 1907D74-005

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/29/2019 10:00:32 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/29/2019 10:00:32 PM
Surr: DNOP	104	70-130		%Rec	1	7/29/2019 10:00:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/31/2019 12:36:12 AM
Surr: BFB	92.1	73.8-119		%Rec	1	7/31/2019 12:36:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/31/2019 12:36:12 AM
Toluene	ND	0.046		mg/Kg	1	7/31/2019 12:36:12 AM
Ethylbenzene	ND	0.046		mg/Kg	1	7/31/2019 12:36:12 AM
Xylenes, Total	ND	0.092		mg/Kg	1	7/31/2019 12:36:12 AM
Surr: 4-Bromofluorobenzene	91.7	80-120		%Rec	1	7/31/2019 12:36:12 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	7/30/2019 11:25:11 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-06 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 9:55:00 AM

Lab ID: 1907D74-006

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/29/2019 1:06:50 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/29/2019 1:06:50 PM
Surr: DNOP	89.9	70-130		%Rec	1	7/29/2019 1:06:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/31/2019 12:59:42 AM
Surr: BFB	94.3	73.8-119		%Rec	1	7/31/2019 12:59:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/31/2019 12:59:42 AM
Toluene	ND	0.047		mg/Kg	1	7/31/2019 12:59:42 AM
Ethylbenzene	ND	0.047		mg/Kg	1	7/31/2019 12:59:42 AM
Xylenes, Total	ND	0.094		mg/Kg	1	7/31/2019 12:59:42 AM
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	7/31/2019 12:59:42 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	7/30/2019 11:37:35 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-07 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:00:00 AM

Lab ID: 1907D74-007

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/29/2019 2:13:20 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/29/2019 2:13:20 PM
Surr: DNOP	96.1	70-130		%Rec	1	7/29/2019 2:13:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/31/2019 1:23:18 AM
Surr: BFB	92.9	73.8-119		%Rec	1	7/31/2019 1:23:18 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/31/2019 1:23:18 AM
Toluene	ND	0.047		mg/Kg	1	7/31/2019 1:23:18 AM
Ethylbenzene	ND	0.047		mg/Kg	1	7/31/2019 1:23:18 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/31/2019 1:23:18 AM
Surr: 4-Bromofluorobenzene	92.5	80-120		%Rec	1	7/31/2019 1:23:18 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	7/30/2019 11:50:00 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-07 2'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:05:00 AM

Lab ID: 1907D74-008

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/29/2019 2:35:23 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/29/2019 2:35:23 PM
Surr: DNOP	94.7	70-130		%Rec	1	7/29/2019 2:35:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/31/2019 1:46:55 AM
Surr: BFB	96.9	73.8-119		%Rec	1	7/31/2019 1:46:55 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/31/2019 1:46:55 AM
Toluene	ND	0.048		mg/Kg	1	7/31/2019 1:46:55 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/31/2019 1:46:55 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/31/2019 1:46:55 AM
Surr: 4-Bromofluorobenzene	96.0	80-120		%Rec	1	7/31/2019 1:46:55 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	170	61		mg/Kg	20	7/31/2019 12:02:24 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-08 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:10:00 AM

Lab ID: 1907D74-009

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/29/2019 3:19:39 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/29/2019 3:19:39 PM
Surr: DNOP	96.6	70-130		%Rec	1	7/29/2019 3:19:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/31/2019 2:10:31 AM
Surr: BFB	99.1	73.8-119		%Rec	1	7/31/2019 2:10:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/31/2019 2:10:31 AM
Toluene	ND	0.049		mg/Kg	1	7/31/2019 2:10:31 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/31/2019 2:10:31 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/31/2019 2:10:31 AM
Surr: 4-Bromofluorobenzene	98.7	80-120		%Rec	1	7/31/2019 2:10:31 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	61		mg/Kg	20	7/31/2019 12:14:48 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-08 2'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:15:00 AM

Lab ID: 1907D74-010

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/29/2019 3:41:47 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/29/2019 3:41:47 PM
Surr: DNOP	97.3	70-130		%Rec	1	7/29/2019 3:41:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/31/2019 2:34:07 AM
Surr: BFB	94.9	73.8-119		%Rec	1	7/31/2019 2:34:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/31/2019 2:34:07 AM
Toluene	ND	0.050		mg/Kg	1	7/31/2019 2:34:07 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/31/2019 2:34:07 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/31/2019 2:34:07 AM
Surr: 4-Bromofluorobenzene	94.7	80-120		%Rec	1	7/31/2019 2:34:07 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	7/31/2019 12:52:01 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-09 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:20:00 AM

Lab ID: 1907D74-011

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	7/30/2019 2:32:18 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	7/30/2019 2:32:18 PM
Surr: DNOP	98.8	70-130		%Rec	1	7/30/2019 2:32:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/31/2019 3:21:17 AM
Surr: BFB	105	73.8-119		%Rec	1	7/31/2019 3:21:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/31/2019 3:21:17 AM
Toluene	0.050	0.047		mg/Kg	1	7/31/2019 3:21:17 AM
Ethylbenzene	ND	0.047		mg/Kg	1	7/31/2019 3:21:17 AM
Xylenes, Total	0.23	0.095		mg/Kg	1	7/31/2019 3:21:17 AM
Surr: 4-Bromofluorobenzene	97.0	80-120		%Rec	1	7/31/2019 3:21:17 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	7/31/2019 1:04:26 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-09 2'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:25:00 AM

Lab ID: 1907D74-012

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/29/2019 4:26:07 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/29/2019 4:26:07 PM
Surr: DNOP	98.1	70-130		%Rec	1	7/29/2019 4:26:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/31/2019 3:44:58 AM
Surr: BFB	97.3	73.8-119		%Rec	1	7/31/2019 3:44:58 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/31/2019 3:44:58 AM
Toluene	ND	0.047		mg/Kg	1	7/31/2019 3:44:58 AM
Ethylbenzene	ND	0.047		mg/Kg	1	7/31/2019 3:44:58 AM
Xylenes, Total	ND	0.094		mg/Kg	1	7/31/2019 3:44:58 AM
Surr: 4-Bromofluorobenzene	96.8	80-120		%Rec	1	7/31/2019 3:44:58 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	7/31/2019 1:16:50 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-10 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:30:00 AM

Lab ID: 1907D74-013

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/29/2019 4:48:22 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/29/2019 4:48:22 PM
Surr: DNOP	104	70-130		%Rec	1	7/29/2019 4:48:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/31/2019 4:08:46 AM
Surr: BFB	97.0	73.8-119		%Rec	1	7/31/2019 4:08:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/31/2019 4:08:46 AM
Toluene	ND	0.047		mg/Kg	1	7/31/2019 4:08:46 AM
Ethylbenzene	ND	0.047		mg/Kg	1	7/31/2019 4:08:46 AM
Xylenes, Total	ND	0.093		mg/Kg	1	7/31/2019 4:08:46 AM
Surr: 4-Bromofluorobenzene	97.2	80-120		%Rec	1	7/31/2019 4:08:46 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	7/31/2019 1:29:15 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	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-11 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:35:00 AM

Lab ID: 1907D74-014

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	7/30/2019 3:22:35 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/30/2019 3:22:35 PM
Surr: DNOP	107	70-130		%Rec	1	7/30/2019 3:22:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/31/2019 4:32:24 AM
Surr: BFB	94.7	73.8-119		%Rec	1	7/31/2019 4:32:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/31/2019 4:32:24 AM
Toluene	ND	0.048		mg/Kg	1	7/31/2019 4:32:24 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/31/2019 4:32:24 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/31/2019 4:32:24 AM
Surr: 4-Bromofluorobenzene	94.0	80-120		%Rec	1	7/31/2019 4:32:24 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	59		mg/Kg	20	7/31/2019 2:06:29 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-12 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:40:00 AM

Lab ID: 1907D74-015

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	290	95		mg/Kg	10	7/29/2019 5:33:05 PM
Motor Oil Range Organics (MRO)	590	470		mg/Kg	10	7/29/2019 5:33:05 PM
Surr: DNOP	0	70-130	S	%Rec	10	7/29/2019 5:33:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	7/31/2019 4:55:59 AM
Surr: BFB	105	73.8-119	D	%Rec	5	7/31/2019 4:55:59 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	7/31/2019 4:55:59 AM
Toluene	ND	0.24	D	mg/Kg	5	7/31/2019 4:55:59 AM
Ethylbenzene	ND	0.24	D	mg/Kg	5	7/31/2019 4:55:59 AM
Xylenes, Total	ND	0.48	D	mg/Kg	5	7/31/2019 4:55:59 AM
Surr: 4-Bromofluorobenzene	103	80-120	D	%Rec	5	7/31/2019 4:55:59 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	95	59		mg/Kg	20	7/31/2019 2:43:42 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-13 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:45:00 AM

Lab ID: 1907D74-016

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	240	99		mg/Kg	10	7/29/2019 5:55:41 PM
Motor Oil Range Organics (MRO)	500	490		mg/Kg	10	7/29/2019 5:55:41 PM
Surr: DNOP	0	70-130	S	%Rec	10	7/29/2019 5:55:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	23	D	mg/Kg	5	7/30/2019 2:09:52 PM
Surr: BFB	113	73.8-119	D	%Rec	5	7/30/2019 2:09:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	7/30/2019 2:09:52 PM
Toluene	ND	0.23	D	mg/Kg	5	7/30/2019 2:09:52 PM
Ethylbenzene	ND	0.23	D	mg/Kg	5	7/30/2019 2:09:52 PM
Xylenes, Total	ND	0.46	D	mg/Kg	5	7/30/2019 2:09:52 PM
Surr: 4-Bromofluorobenzene	100	80-120	D	%Rec	5	7/30/2019 2:09:52 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	110	59		mg/Kg	20	7/31/2019 3:45:44 AM

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

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

Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-14 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:50:00 AM

Lab ID: 1907D74-017

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	5100	890		mg/Kg	100	7/29/2019 6:18:11 PM
Motor Oil Range Organics (MRO)	7700	4400		mg/Kg	100	7/29/2019 6:18:11 PM
Surr: DNOP	0	70-130	S	%Rec	100	7/29/2019 6:18:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	230	D	mg/Kg	50	7/30/2019 2:32:44 PM
Surr: BFB	113	73.8-119	D	%Rec	50	7/30/2019 2:32:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.1	D	mg/Kg	50	7/30/2019 2:32:44 PM
Toluene	ND	2.3	D	mg/Kg	50	7/30/2019 2:32:44 PM
Ethylbenzene	ND	2.3	D	mg/Kg	50	7/30/2019 2:32:44 PM
Xylenes, Total	ND	4.6	D	mg/Kg	50	7/30/2019 2:32:44 PM
Surr: 4-Bromofluorobenzene	99.5	80-120	D	%Rec	50	7/30/2019 2:32:44 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	97	60		mg/Kg	20	7/31/2019 3:58:09 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-15 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:55:00 AM

Lab ID: 1907D74-018

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	170	8.6		mg/Kg	1	7/31/2019 8:15:31 PM
Motor Oil Range Organics (MRO)	280	43		mg/Kg	1	7/31/2019 8:15:31 PM
Surr: DNOP	110	70-130		%Rec	1	7/31/2019 8:15:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	9.7		mg/Kg	2	7/31/2019 6:03:14 PM
Surr: BFB	101	73.8-119		%Rec	2	7/31/2019 6:03:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	2	7/31/2019 6:03:14 PM
Toluene	0.13	0.097		mg/Kg	2	7/31/2019 6:03:14 PM
Ethylbenzene	ND	0.097		mg/Kg	2	7/31/2019 6:03:14 PM
Xylenes, Total	0.25	0.19		mg/Kg	2	7/31/2019 6:03:14 PM
Surr: 4-Bromofluorobenzene	97.2	80-120		%Rec	2	7/31/2019 6:03:14 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	7/31/2019 4:10:34 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-16 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:00:00 AM

Lab ID: 1907D74-019

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	18000	940		mg/Kg	100	7/29/2019 7:03:22 PM
Motor Oil Range Organics (MRO)	13000	4700		mg/Kg	100	7/29/2019 7:03:22 PM
Surr: DNOP	0	70-130	S	%Rec	100	7/29/2019 7:03:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	480	D	mg/Kg	100	7/30/2019 3:18:31 PM
Surr: BFB	115	73.8-119	D	%Rec	100	7/30/2019 3:18:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.4	D	mg/Kg	100	7/30/2019 3:18:31 PM
Toluene	ND	4.8	D	mg/Kg	100	7/30/2019 3:18:31 PM
Ethylbenzene	ND	4.8	D	mg/Kg	100	7/30/2019 3:18:31 PM
Xylenes, Total	ND	9.7	D	mg/Kg	100	7/30/2019 3:18:31 PM
Surr: 4-Bromofluorobenzene	101	80-120	D	%Rec	100	7/30/2019 3:18:31 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	1600	60		mg/Kg	20	7/31/2019 4:22:58 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-16 '2

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:05:00 AM

Lab ID: 1907D74-020

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	12000	1000		mg/Kg	100	7/29/2019 7:26:00 PM
Motor Oil Range Organics (MRO)	9600	5000		mg/Kg	100	7/29/2019 7:26:00 PM
Surr: DNOP	0	70-130	S	%Rec	100	7/29/2019 7:26:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	490	D	mg/Kg	100	7/30/2019 3:41:25 PM
Surr: BFB	126	73.8-119	SD	%Rec	100	7/30/2019 3:41:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.4	D	mg/Kg	100	7/30/2019 3:41:25 PM
Toluene	ND	4.9	D	mg/Kg	100	7/30/2019 3:41:25 PM
Ethylbenzene	ND	4.9	D	mg/Kg	100	7/30/2019 3:41:25 PM
Xylenes, Total	ND	9.8	D	mg/Kg	100	7/30/2019 3:41:25 PM
Surr: 4-Bromofluorobenzene	104	80-120	D	%Rec	100	7/30/2019 3:41:25 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	6800	300		mg/Kg	100	8/1/2019 5:33:46 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-16 4'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:10:00 AM

Lab ID: 1907D74-021

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	8300	96		mg/Kg	10	7/30/2019 4:12:49 PM
Motor Oil Range Organics (MRO)	2500	480		mg/Kg	10	7/30/2019 4:12:49 PM
Surr: DNOP	0	70-130	S	%Rec	10	7/30/2019 4:12:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	2000	230		mg/Kg	50	7/30/2019 4:04:17 PM
Surr: BFB	300	73.8-119	S	%Rec	50	7/30/2019 4:04:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.2	D	mg/Kg	50	7/31/2019 6:26:58 PM
Toluene	16	2.3	D	mg/Kg	50	7/31/2019 6:26:58 PM
Ethylbenzene	7.5	2.3	D	mg/Kg	50	7/31/2019 6:26:58 PM
Xylenes, Total	68	4.7	D	mg/Kg	50	7/31/2019 6:26:58 PM
Surr: 4-Bromofluorobenzene	109	80-120	D	%Rec	50	7/31/2019 6:26:58 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	200	60		mg/Kg	20	7/31/2019 4:47:47 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-17 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:15:00 AM

Lab ID: 1907D74-022

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	3800	950		mg/Kg	100	7/29/2019 8:10:34 PM
Motor Oil Range Organics (MRO)	5100	4800		mg/Kg	100	7/29/2019 8:10:34 PM
Surr: DNOP	0	70-130	S	%Rec	100	7/29/2019 8:10:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	240	D	mg/Kg	50	7/30/2019 4:27:22 PM
Surr: BFB	114	73.8-119	D	%Rec	50	7/30/2019 4:27:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.2	D	mg/Kg	50	7/30/2019 4:27:22 PM
Toluene	ND	2.4	D	mg/Kg	50	7/30/2019 4:27:22 PM
Ethylbenzene	ND	2.4	D	mg/Kg	50	7/30/2019 4:27:22 PM
Xylenes, Total	ND	4.7	D	mg/Kg	50	7/30/2019 4:27:22 PM
Surr: 4-Bromofluorobenzene	101	80-120	D	%Rec	50	7/30/2019 4:27:22 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	1400	60		mg/Kg	20	7/31/2019 5:00:11 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	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		

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Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:20:00 AM

Lab ID: 1907D74-023

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	9400	910		mg/Kg	100	7/29/2019 8:32:44 PM
Motor Oil Range Organics (MRO)	6000	4600		mg/Kg	100	7/29/2019 8:32:44 PM
Surr: DNOP	0	70-130	S	%Rec	100	7/29/2019 8:32:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	460	D	mg/Kg	100	7/30/2019 4:50:17 PM
Surr: BFB	118	73.8-119	D	%Rec	100	7/30/2019 4:50:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.3	D	mg/Kg	100	7/30/2019 4:50:17 PM
Toluene	ND	4.6	D	mg/Kg	100	7/30/2019 4:50:17 PM
Ethylbenzene	ND	4.6	D	mg/Kg	100	7/30/2019 4:50:17 PM
Xylenes, Total	ND	9.2	D	mg/Kg	100	7/30/2019 4:50:17 PM
Surr: 4-Bromofluorobenzene	105	80-120	D	%Rec	100	7/30/2019 4:50:17 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	490	61		mg/Kg	20	7/31/2019 5:12:35 AM

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

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

Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 2'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:25:00 AM

Lab ID: 1907D74-024

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	8000	980		mg/Kg	100	7/29/2019 8:54:59 PM
Motor Oil Range Organics (MRO)	6000	4900		mg/Kg	100	7/29/2019 8:54:59 PM
Surr: DNOP	0	70-130	S	%Rec	100	7/29/2019 8:54:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	470	D	mg/Kg	100	7/30/2019 5:13:09 PM
Surr: BFB	127	73.8-119	SD	%Rec	100	7/30/2019 5:13:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.3	D	mg/Kg	100	7/30/2019 5:13:09 PM
Toluene	ND	4.7	D	mg/Kg	100	7/30/2019 5:13:09 PM
Ethylbenzene	ND	4.7	D	mg/Kg	100	7/30/2019 5:13:09 PM
Xylenes, Total	ND	9.4	D	mg/Kg	100	7/30/2019 5:13:09 PM
Surr: 4-Bromofluorobenzene	106	80-120	D	%Rec	100	7/30/2019 5:13:09 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	6500	300		mg/Kg	100	8/1/2019 5:46:11 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 4'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:30:00 AM

Lab ID: 1907D74-025

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	7700	99		mg/Kg	10	7/30/2019 5:03:05 PM
Motor Oil Range Organics (MRO)	2100	500		mg/Kg	10	7/30/2019 5:03:05 PM
Surr: DNOP	0	70-130	S	%Rec	10	7/30/2019 5:03:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1900	470		mg/Kg	100	7/30/2019 5:36:07 PM
Surr: BFB	204	73.8-119	S	%Rec	100	7/30/2019 5:36:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.3	D	mg/Kg	100	7/31/2019 6:50:41 PM
Toluene	14	4.7	D	mg/Kg	100	7/31/2019 6:50:41 PM
Ethylbenzene	6.4	4.7	D	mg/Kg	100	7/31/2019 6:50:41 PM
Xylenes, Total	70	9.3	D	mg/Kg	100	7/31/2019 6:50:41 PM
Surr: 4-Bromofluorobenzene	101	80-120	D	%Rec	100	7/31/2019 6:50:41 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	130	60		mg/Kg	20	7/31/2019 6:02:13 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 6'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:35:00 AM

Lab ID: 1907D74-026

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	8300	98		mg/Kg	10	7/31/2019 9:00:14 PM
Motor Oil Range Organics (MRO)	2800	490		mg/Kg	10	7/31/2019 9:00:14 PM
Surr: DNOP	0	70-130	S	%Rec	10	7/31/2019 9:00:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1900	480		mg/Kg	100	7/30/2019 7:30:28 PM
Surr: BFB	195	73.8-119	S	%Rec	100	7/30/2019 7:30:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.4	D	mg/Kg	100	7/31/2019 8:48:39 PM
Toluene	19	4.8	D	mg/Kg	100	7/31/2019 8:48:39 PM
Ethylbenzene	8.5	4.8	D	mg/Kg	100	7/31/2019 8:48:39 PM
Xylenes, Total	78	9.7	D	mg/Kg	100	7/31/2019 8:48:39 PM
Surr: 4-Bromofluorobenzene	100	80-120	D	%Rec	100	7/31/2019 8:48:39 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	210	60		mg/Kg	20	7/31/2019 6:14:37 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 8'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:40:00 AM

Lab ID: 1907D74-027

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	11000	470		mg/Kg	50	7/30/2019 7:09:13 PM
Motor Oil Range Organics (MRO)	3000	2400		mg/Kg	50	7/30/2019 7:09:13 PM
Surr: DNOP	0	70-130	S	%Rec	50	7/30/2019 7:09:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	2400	480		mg/Kg	100	7/30/2019 7:53:18 PM
Surr: BFB	211	73.8-119	S	%Rec	100	7/30/2019 7:53:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	2.7	2.4	D	mg/Kg	100	7/31/2019 9:12:14 PM
Toluene	34	4.8	D	mg/Kg	100	7/31/2019 9:12:14 PM
Ethylbenzene	13	4.8	D	mg/Kg	100	7/31/2019 9:12:14 PM
Xylenes, Total	95	9.7	D	mg/Kg	100	7/31/2019 9:12:14 PM
Surr: 4-Bromofluorobenzene	103	80-120	D	%Rec	100	7/31/2019 9:12:14 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	250	61		mg/Kg	20	7/31/2019 6:27:01 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 10'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:45:00 AM

Lab ID: 1907D74-028

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	11000	470		mg/Kg	50	7/30/2019 7:34:16 PM
Motor Oil Range Organics (MRO)	3300	2400		mg/Kg	50	7/30/2019 7:34:16 PM
Surr: DNOP	0	70-130	S	%Rec	50	7/30/2019 7:34:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	2300	490		mg/Kg	100	7/30/2019 8:16:04 PM
Surr: BFB	201	73.8-119	S	%Rec	100	7/30/2019 8:16:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	3.2	2.5	D	mg/Kg	100	7/31/2019 9:35:49 PM
Toluene	38	4.9	D	mg/Kg	100	7/31/2019 9:35:49 PM
Ethylbenzene	15	4.9	D	mg/Kg	100	7/31/2019 9:35:49 PM
Xylenes, Total	97	9.9	D	mg/Kg	100	7/31/2019 9:35:49 PM
Surr: 4-Bromofluorobenzene	105	80-120	D	%Rec	100	7/31/2019 9:35:49 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	410	59		mg/Kg	20	7/31/2019 6:39:26 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 12'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:50:00 AM

Lab ID: 1907D74-029

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	13000	470		mg/Kg	50	7/30/2019 7:59:26 PM
Motor Oil Range Organics (MRO)	4000	2300		mg/Kg	50	7/30/2019 7:59:26 PM
Surr: DNOP	0	70-130	S	%Rec	50	7/30/2019 7:59:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	2100	480		mg/Kg	100	7/30/2019 8:38:52 PM
Surr: BFB	198	73.8-119	S	%Rec	100	7/30/2019 8:38:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.4	D	mg/Kg	100	7/31/2019 9:59:24 PM
Toluene	29	4.8	D	mg/Kg	100	7/31/2019 9:59:24 PM
Ethylbenzene	16	4.8	D	mg/Kg	100	7/31/2019 9:59:24 PM
Xylenes, Total	96	9.6	D	mg/Kg	100	7/31/2019 9:59:24 PM
Surr: 4-Bromofluorobenzene	110	80-120	D	%Rec	100	7/31/2019 9:59:24 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	720	60		mg/Kg	20	7/31/2019 6:51:50 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 14'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:55:00 AM

Lab ID: 1907D74-030

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	9400	470		mg/Kg	50	7/30/2019 8:24:34 PM
Motor Oil Range Organics (MRO)	2900	2400		mg/Kg	50	7/30/2019 8:24:34 PM
Surr: DNOP	0	70-130	S	%Rec	50	7/30/2019 8:24:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1700	490		mg/Kg	100	7/30/2019 9:01:40 PM
Surr: BFB	179	73.8-119	S	%Rec	100	7/30/2019 9:01:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.4	D	mg/Kg	100	7/31/2019 10:22:59 PM
Toluene	18	4.9	D	mg/Kg	100	7/31/2019 10:22:59 PM
Ethylbenzene	10	4.9	D	mg/Kg	100	7/31/2019 10:22:59 PM
Xylenes, Total	66	9.7	D	mg/Kg	100	7/31/2019 10:22:59 PM
Surr: 4-Bromofluorobenzene	99.5	80-120	D	%Rec	100	7/31/2019 10:22:59 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	800	60		mg/Kg	20	7/31/2019 7:04:14 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 16'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:00:00 PM

Lab ID: 1907D74-031

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	9500	490		mg/Kg	50	7/30/2019 8:49:41 PM
Motor Oil Range Organics (MRO)	2600	2400		mg/Kg	50	7/30/2019 8:49:41 PM
Surr: DNOP	0	70-130	S	%Rec	50	7/30/2019 8:49:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	2200	480		mg/Kg	100	7/30/2019 9:24:21 PM
Surr: BFB	186	73.8-119	S	%Rec	100	7/30/2019 9:24:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	2.6	2.4	D	mg/Kg	100	7/31/2019 10:46:34 PM
Toluene	35	4.8	D	mg/Kg	100	7/31/2019 10:46:34 PM
Ethylbenzene	17	4.8	D	mg/Kg	100	7/31/2019 10:46:34 PM
Xylenes, Total	90	9.5	D	mg/Kg	100	7/31/2019 10:46:34 PM
Surr: 4-Bromofluorobenzene	101	80-120	D	%Rec	100	7/31/2019 10:46:34 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	580	61		mg/Kg	20	7/31/2019 7:16:38 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 18'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:05:00 PM

Lab ID: 1907D74-032

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	9900	470		mg/Kg	50	7/30/2019 9:39:24 PM
Motor Oil Range Organics (MRO)	2500	2400		mg/Kg	50	7/30/2019 9:39:24 PM
Surr: DNOP	0	70-130	S	%Rec	50	7/30/2019 9:39:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	2000	490		mg/Kg	100	7/30/2019 9:47:09 PM
Surr: BFB	188	73.8-119	S	%Rec	100	7/30/2019 9:47:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.4	D	mg/Kg	100	7/31/2019 11:10:07 PM
Toluene	25	4.9	D	mg/Kg	100	7/31/2019 11:10:07 PM
Ethylbenzene	13	4.9	D	mg/Kg	100	7/31/2019 11:10:07 PM
Xylenes, Total	78	9.8	D	mg/Kg	100	7/31/2019 11:10:07 PM
Surr: 4-Bromofluorobenzene	99.4	80-120	D	%Rec	100	7/31/2019 11:10:07 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	560	60		mg/Kg	20	7/31/2019 7:29:02 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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		

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Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 20'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:10:00 PM

Lab ID: 1907D74-033

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	480	37		mg/Kg	4	8/2/2019 8:12:49 AM
Motor Oil Range Organics (MRO)	240	190		mg/Kg	4	8/2/2019 8:12:49 AM
Surr: DNOP	119	70-130		%Rec	4	8/2/2019 8:12:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	19	4.6		mg/Kg	1	7/30/2019 10:09:58 PM
Surr: BFB	260	73.8-119	S	%Rec	1	7/30/2019 10:09:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.3	D	mg/Kg	100	7/31/2019 11:33:40 PM
Toluene	ND	4.6	D	mg/Kg	100	7/31/2019 11:33:40 PM
Ethylbenzene	ND	4.6	D	mg/Kg	100	7/31/2019 11:33:40 PM
Xylenes, Total	ND	9.3	D	mg/Kg	100	7/31/2019 11:33:40 PM
Surr: 4-Bromofluorobenzene	93.5	80-120	D	%Rec	100	7/31/2019 11:33:40 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	580	59		mg/Kg	20	7/31/2019 7:41:27 AM

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

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

Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 22'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:15:00 PM

Lab ID: 1907D74-034

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	920	9.6		mg/Kg	1	7/31/2019 10:29:05 PM
Motor Oil Range Organics (MRO)	360	48		mg/Kg	1	7/31/2019 10:29:05 PM
Surr: DNOP	220	70-130	S	%Rec	1	7/31/2019 10:29:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	39	4.7		mg/Kg	1	7/30/2019 10:32:41 PM
Surr: BFB	339	73.8-119	S	%Rec	1	7/30/2019 10:32:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/31/2019 11:57:17 PM
Toluene	ND	0.047		mg/Kg	1	7/31/2019 11:57:17 PM
Ethylbenzene	ND	0.047		mg/Kg	1	7/31/2019 11:57:17 PM
Xylenes, Total	0.29	0.094		mg/Kg	1	7/31/2019 11:57:17 PM
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	7/31/2019 11:57:17 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	560	60		mg/Kg	20	7/31/2019 11:30:54 AM

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

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

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Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-19 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:20:00 PM

Lab ID: 1907D74-035

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	5500	520		mg/Kg	50	7/30/2019 10:54:15 PM
Motor Oil Range Organics (MRO)	2800	2600		mg/Kg	50	7/30/2019 10:54:15 PM
Surr: DNOP	0	70-130	S	%Rec	50	7/30/2019 10:54:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	230		mg/Kg	50	7/30/2019 10:55:25 PM
Surr: BFB	124	73.8-119	S	%Rec	50	7/30/2019 10:55:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.2		mg/Kg	50	7/30/2019 10:55:25 PM
Toluene	ND	2.3		mg/Kg	50	7/30/2019 10:55:25 PM
Ethylbenzene	ND	2.3		mg/Kg	50	7/30/2019 10:55:25 PM
Xylenes, Total	ND	4.6		mg/Kg	50	7/30/2019 10:55:25 PM
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	50	7/30/2019 10:55:25 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	9800	600		mg/Kg	200	8/1/2019 6:35:50 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-19 2'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:25:00 PM

Lab ID: 1907D74-036

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	7700	500		mg/Kg	50	7/30/2019 11:19:12 PM
Motor Oil Range Organics (MRO)	3300	2500		mg/Kg	50	7/30/2019 11:19:12 PM
Surr: DNOP	0	70-130	S	%Rec	50	7/30/2019 11:19:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	240	D	mg/Kg	50	7/31/2019 12:03:41 AM
Surr: BFB	131	73.8-119	SD	%Rec	50	7/31/2019 12:03:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.2	D	mg/Kg	50	7/31/2019 12:03:41 AM
Toluene	2.5	2.4	D	mg/Kg	50	7/31/2019 12:03:41 AM
Ethylbenzene	ND	2.4	D	mg/Kg	50	7/31/2019 12:03:41 AM
Xylenes, Total	5.2	4.8	D	mg/Kg	50	7/31/2019 12:03:41 AM
Surr: 4-Bromofluorobenzene	106	80-120	D	%Rec	50	7/31/2019 12:03:41 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	81	60		mg/Kg	20	7/31/2019 12:45:20 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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		

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Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-19 4'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:30:00 PM

Lab ID: 1907D74-037

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	2400	94		mg/Kg	10	7/30/2019 11:44:05 PM
Motor Oil Range Organics (MRO)	1100	470		mg/Kg	10	7/30/2019 11:44:05 PM
Surr: DNOP	0	70-130	S	%Rec	10	7/30/2019 11:44:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	230	D	mg/Kg	50	7/31/2019 12:26:28 AM
Surr: BFB	127	73.8-119	SD	%Rec	50	7/31/2019 12:26:28 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.2	D	mg/Kg	50	7/31/2019 12:26:28 AM
Toluene	2.5	2.3	D	mg/Kg	50	7/31/2019 12:26:28 AM
Ethylbenzene	ND	2.3	D	mg/Kg	50	7/31/2019 12:26:28 AM
Xylenes, Total	6.1	4.6	D	mg/Kg	50	7/31/2019 12:26:28 AM
Surr: 4-Bromofluorobenzene	105	80-120	D	%Rec	50	7/31/2019 12:26:28 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	440	60		mg/Kg	20	7/31/2019 12:57:45 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-19 6'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:35:00 PM

Lab ID: 1907D74-038

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	7/31/2019 12:08:57 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/31/2019 12:08:57 AM
Surr: DNOP	90.3	70-130		%Rec	1	7/31/2019 12:08:57 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/1/2019 12:20:56 AM
Surr: BFB	98.8	73.8-119		%Rec	1	8/1/2019 12:20:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/1/2019 12:20:56 AM
Toluene	ND	0.050		mg/Kg	1	8/1/2019 12:20:56 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/1/2019 12:20:56 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/1/2019 12:20:56 AM
Surr: 4-Bromofluorobenzene	91.7	80-120		%Rec	1	8/1/2019 12:20:56 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/31/2019 1:10:10 PM

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

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

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Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-20 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:40:00 PM

Lab ID: 1907D74-039

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	8200	100		mg/Kg	10	7/31/2019 11:13:40 PM
Motor Oil Range Organics (MRO)	4200	510		mg/Kg	10	7/31/2019 11:13:40 PM
Surr: DNOP	0	70-130	S	%Rec	10	7/31/2019 11:13:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	250	240		mg/Kg	50	7/31/2019 1:11:58 AM
Surr: BFB	136	73.8-119	S	%Rec	50	7/31/2019 1:11:58 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.2		mg/Kg	50	7/31/2019 1:11:58 AM
Toluene	ND	2.4		mg/Kg	50	7/31/2019 1:11:58 AM
Ethylbenzene	ND	2.4		mg/Kg	50	7/31/2019 1:11:58 AM
Xylenes, Total	6.4	4.8		mg/Kg	50	7/31/2019 1:11:58 AM
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	50	7/31/2019 1:11:58 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	4100	150		mg/Kg	50	8/1/2019 5:58:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-20 2'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:45:00 PM

Lab ID: 1907D74-040

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	7700	480		mg/Kg	50	7/31/2019 12:58:31 AM
Motor Oil Range Organics (MRO)	2700	2400		mg/Kg	50	7/31/2019 12:58:31 AM
Surr: DNOP	0	70-130	S	%Rec	50	7/31/2019 12:58:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	66	4.7		mg/Kg	1	7/29/2019 2:30:50 PM
Surr: BFB	478	73.8-119	S	%Rec	1	7/29/2019 2:30:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/29/2019 2:30:50 PM
Toluene	ND	0.047		mg/Kg	1	7/29/2019 2:30:50 PM
Ethylbenzene	ND	0.047		mg/Kg	1	7/29/2019 2:30:50 PM
Xylenes, Total	1.3	0.095		mg/Kg	1	7/29/2019 2:30:50 PM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/29/2019 2:30:50 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	210	60		mg/Kg	20	7/31/2019 1:34:58 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-20 4'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:50:00 PM

Lab ID: 1907D74-041

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	600	47		mg/Kg	5	8/2/2019 8:56:54 AM
Motor Oil Range Organics (MRO)	330	240		mg/Kg	5	8/2/2019 8:56:54 AM
Surr: DNOP	104	70-130		%Rec	5	8/2/2019 8:56:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	7.4	4.6		mg/Kg	1	7/29/2019 3:18:10 PM
Surr: BFB	174	73.8-119	S	%Rec	1	7/29/2019 3:18:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/29/2019 3:18:10 PM
Toluene	ND	0.046		mg/Kg	1	7/29/2019 3:18:10 PM
Ethylbenzene	ND	0.046		mg/Kg	1	7/29/2019 3:18:10 PM
Xylenes, Total	ND	0.093		mg/Kg	1	7/29/2019 3:18:10 PM
Surr: 4-Bromofluorobenzene	98.7	80-120		%Rec	1	7/29/2019 3:18:10 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/31/2019 1:47:22 PM

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

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

Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-20 6'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:55:00 PM

Lab ID: 1907D74-042

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	130	9.2		mg/Kg	1	7/31/2019 1:48:00 AM
Motor Oil Range Organics (MRO)	59	46		mg/Kg	1	7/31/2019 1:48:00 AM
Surr: DNOP	98.1	70-130		%Rec	1	7/31/2019 1:48:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/29/2019 4:29:08 PM
Surr: BFB	106	73.8-119		%Rec	1	7/29/2019 4:29:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/29/2019 4:29:08 PM
Toluene	ND	0.047		mg/Kg	1	7/29/2019 4:29:08 PM
Ethylbenzene	ND	0.047		mg/Kg	1	7/29/2019 4:29:08 PM
Xylenes, Total	ND	0.095		mg/Kg	1	7/29/2019 4:29:08 PM
Surr: 4-Bromofluorobenzene	92.3	80-120		%Rec	1	7/29/2019 4:29:08 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/31/2019 1:59:47 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BG-1 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 1:00:00 PM

Lab ID: 1907D74-043

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/31/2019 2:12:47 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/31/2019 2:12:47 AM
Surr: DNOP	91.0	70-130		%Rec	1	7/31/2019 2:12:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/29/2019 6:03:28 PM
Surr: BFB	92.4	73.8-119		%Rec	1	7/29/2019 6:03:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/29/2019 6:03:28 PM
Toluene	ND	0.049		mg/Kg	1	7/29/2019 6:03:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/29/2019 6:03:28 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/29/2019 6:03:28 PM
Surr: 4-Bromofluorobenzene	91.4	80-120		%Rec	1	7/29/2019 6:03:28 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/31/2019 2:12:11 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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		

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Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BG-1 2'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 1:05:00 PM

Lab ID: 1907D74-044

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/31/2019 2:37:43 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/31/2019 2:37:43 AM
Surr: DNOP	91.7	70-130		%Rec	1	7/31/2019 2:37:43 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/29/2019 6:27:04 PM
Surr: BFB	92.6	73.8-119		%Rec	1	7/29/2019 6:27:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/29/2019 6:27:04 PM
Toluene	ND	0.050		mg/Kg	1	7/29/2019 6:27:04 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/29/2019 6:27:04 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/29/2019 6:27:04 PM
Surr: 4-Bromofluorobenzene	92.2	80-120		%Rec	1	7/29/2019 6:27:04 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/31/2019 2:24:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	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		

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

WO#: 1907D74

05-Aug-19

Client: Devon Energy
Project: North Pure Gold 9 Fed 1

Sample ID: MB-46495	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 46495	RunNo: 61775								
Prep Date: 7/30/2019	Analysis Date: 7/30/2019	SeqNo: 2094150 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-46495	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 46495	RunNo: 61775								
Prep Date: 7/30/2019	Analysis Date: 7/30/2019	SeqNo: 2094151 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	90	110			

Sample ID: MB-46498	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 46498	RunNo: 61775								
Prep Date: 7/30/2019	Analysis Date: 7/31/2019	SeqNo: 2094182 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-46498	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 46498	RunNo: 61775								
Prep Date: 7/30/2019	Analysis Date: 7/31/2019	SeqNo: 2094183 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Sample ID: MB-46511	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 46511	RunNo: 61780								
Prep Date: 7/31/2019	Analysis Date: 7/31/2019	SeqNo: 2095324 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-46511	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 46511	RunNo: 61780								
Prep Date: 7/31/2019	Analysis Date: 7/31/2019	SeqNo: 2095326 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

Qualifiers:

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

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

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

WO#: 1907D74

05-Aug-19

Client: Devon Energy**Project:** North Pure Gold 9 Fed 1

Sample ID: 1907D74-006AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SS19-06 0'	Batch ID: 46426	RunNo: 61704								
Prep Date: 7/26/2019	Analysis Date: 7/29/2019	SeqNo: 2091850		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.4	47.17	0	102	57	142			
Surr: DNOP	4.2		4.717		88.7	70	130			

Sample ID: 1907D74-006AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SS19-06 0'	Batch ID: 46426	RunNo: 61704								
Prep Date: 7/26/2019	Analysis Date: 7/29/2019	SeqNo: 2091851		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.7	48.36	0	105	57	142	4.57	20	
Surr: DNOP	4.3		4.836		88.0	70	130	0	0	

Sample ID: LCS-46426	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 46426	RunNo: 61704								
Prep Date: 7/26/2019	Analysis Date: 7/29/2019	SeqNo: 2091854		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	107	63.9	124			
Surr: DNOP	4.5		5.000		90.3	70	130			

Sample ID: MB-46426	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 46426	RunNo: 61704								
Prep Date: 7/26/2019	Analysis Date: 7/29/2019	SeqNo: 2091855		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.4	70	130			

Sample ID: MB-46412	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 46412	RunNo: 61730								
Prep Date: 7/26/2019	Analysis Date: 7/29/2019	SeqNo: 2092548		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.7		10.00		97.2	70	130			

Sample ID: MB-46425	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 46425	RunNo: 61730								
Prep Date: 7/26/2019	Analysis Date: 7/29/2019	SeqNo: 2092549		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

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

WO#: 1907D74

05-Aug-19

Client: Devon Energy**Project:** North Pure Gold 9 Fed 1

Sample ID: MB-46425	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 46425			RunNo: 61730						
Prep Date: 7/26/2019	Analysis Date: 7/29/2019			SeqNo: 2092549		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.7	70	130			

Sample ID: LCS-46412	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 46412			RunNo: 61730						
Prep Date: 7/26/2019	Analysis Date: 7/29/2019			SeqNo: 2092550		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		76.9	70	130			

Sample ID: LCS-46425	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 46425			RunNo: 61730						
Prep Date: 7/26/2019	Analysis Date: 7/29/2019			SeqNo: 2092551		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	63.9	124			
Surr: DNOP	4.1		5.000		82.8	70	130			

Sample ID: LCS-46434	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 46434			RunNo: 61732						
Prep Date: 7/29/2019	Analysis Date: 7/30/2019			SeqNo: 2093469		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.6	63.9	124			
Surr: DNOP	4.2		5.000		83.1	70	130			

Sample ID: MB-46434	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 46434			RunNo: 61732						
Prep Date: 7/29/2019	Analysis Date: 7/30/2019			SeqNo: 2093470		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		88.6	70	130			

Qualifiers:

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

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

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

WO#: 1907D74

05-Aug-19

Client: Devon Energy
Project: North Pure Gold 9 Fed 1

Sample ID: LCS-46481	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 46481			RunNo: 61770						
Prep Date: 7/30/2019	Analysis Date: 7/31/2019			SeqNo: 2094814		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		96.3	70	130			

Sample ID: MB-46481	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 46481			RunNo: 61770						
Prep Date: 7/30/2019	Analysis Date: 7/31/2019			SeqNo: 2094815		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.9		10.00		98.8	70	130			

Sample ID: LCS-46512	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 46512			RunNo: 61831						
Prep Date: 7/31/2019	Analysis Date: 8/1/2019			SeqNo: 2096582		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		79.1	70	130			

Sample ID: MB-46512	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 46512			RunNo: 61831						
Prep Date: 7/31/2019	Analysis Date: 8/1/2019			SeqNo: 2096583		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.8		10.00		87.8	70	130			

Sample ID: LCS-46536	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 46536			RunNo: 61831						
Prep Date: 8/1/2019	Analysis Date: 8/2/2019			SeqNo: 2097810		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		98.4	70	130			

Sample ID: MB-46536	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 46536			RunNo: 61831						
Prep Date: 8/1/2019	Analysis Date: 8/2/2019			SeqNo: 2097812		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		133	70	130			S

Qualifiers:

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

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

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

WO#: 1907D74

05-Aug-19

Client: Devon Energy**Project:** North Pure Gold 9 Fed 1

Sample ID: MB-46422	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 46422			RunNo: 61712						
Prep Date: 7/26/2019	Analysis Date: 7/29/2019			SeqNo: 2092021		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	890		1000		89.3	73.8	119			

Sample ID: LCS-46422	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 46422			RunNo: 61712						
Prep Date: 7/26/2019	Analysis Date: 7/29/2019			SeqNo: 2092022		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.6	80.1	123			
Surr: BFB	1000		1000		104	73.8	119			

Sample ID: 1907D74-041AMS	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH19-20 4'	Batch ID: 46422			RunNo: 61712						
Prep Date: 7/26/2019	Analysis Date: 7/29/2019			SeqNo: 2092025		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	4.6	23.04	7.407	106	69.1	142			
Surr: BFB	1700		921.7		181	73.8	119			S

Sample ID: 1907D74-041AMSD	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH19-20 4'	Batch ID: 46422			RunNo: 61712						
Prep Date: 7/26/2019	Analysis Date: 7/29/2019			SeqNo: 2092026		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.8	23.83	7.407	101	69.1	142	0.959	20	
Surr: BFB	1600		953.3		167	73.8	119	0	0	S

Sample ID: MB-46417	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 46417			RunNo: 61712						
Prep Date: 7/26/2019	Analysis Date: 7/29/2019			SeqNo: 2092033		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	920		1000		92.0	73.8	119			

Sample ID: LCS-46417	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 46417			RunNo: 61712						
Prep Date: 7/26/2019	Analysis Date: 7/29/2019			SeqNo: 2092035		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		100	73.8	119			

Qualifiers:

* Value exceeds Maximum Contaminant 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#: 1907D74

05-Aug-19

Client: Devon Energy
Project: North Pure Gold 9 Fed 1

Sample ID: MB-46420	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 46420			RunNo: 61757						
Prep Date: 7/26/2019	Analysis Date: 7/30/2019			SeqNo: 2093528		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.0	73.8	119			

Sample ID: LCS-46420	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 46420			RunNo: 61757						
Prep Date: 7/26/2019	Analysis Date: 7/30/2019			SeqNo: 2093529		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.2	80.1	123			
Surr: BFB	1100		1000		110	73.8	119			

Sample ID: MB-46421	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 46421			RunNo: 61758						
Prep Date: 7/26/2019	Analysis Date: 7/30/2019			SeqNo: 2093613		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	500								
Surr: BFB	100000		100000		101	73.8	119			

Sample ID: LCS-46421	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 46421			RunNo: 61758						
Prep Date: 7/26/2019	Analysis Date: 7/30/2019			SeqNo: 2093614		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	80.1	123			
Surr: BFB	1200		1000		124	73.8	119			S

Qualifiers:

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

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

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

WO#: 1907D74

05-Aug-19

Client: Devon Energy**Project:** North Pure Gold 9 Fed 1

Sample ID: MB-46422	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 46422	RunNo: 61712								
Prep Date: 7/26/2019	Analysis Date: 7/29/2019	SeqNo: 2092074 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.8	80	120			

Sample ID: LCS-46422	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 46422	RunNo: 61712								
Prep Date: 7/26/2019	Analysis Date: 7/29/2019	SeqNo: 2092075 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.2	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.7	80	120			

Sample ID: MB-46417	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 46417	RunNo: 61712								
Prep Date: 7/26/2019	Analysis Date: 7/29/2019	SeqNo: 2092081 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.91		1.000		91.2	80	120			

Sample ID: LCS-46417	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 46417	RunNo: 61712								
Prep Date: 7/26/2019	Analysis Date: 7/29/2019	SeqNo: 2092082 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	80	120			

Sample ID: MB-46420	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 46420	RunNo: 61757								
Prep Date: 7/26/2019	Analysis Date: 7/30/2019	SeqNo: 2093575 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								

Qualifiers:

* Value exceeds Maximum Contaminant 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#: 1907D74

05-Aug-19

Client: Devon Energy**Project:** North Pure Gold 9 Fed 1

Sample ID: MB-46420	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 46420				RunNo: 61757					
Prep Date: 7/26/2019	Analysis Date: 7/30/2019				SeqNo: 2093575	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	80	120			

Sample ID: LCS-46420	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 46420				RunNo: 61757					
Prep Date: 7/26/2019	Analysis Date: 7/30/2019				SeqNo: 2093576	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.6	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.9	80	120			

Sample ID: MB-46421	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 46421				RunNo: 61758					
Prep Date: 7/26/2019	Analysis Date: 7/30/2019				SeqNo: 2093643	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	2.5								
Toluene	ND	5.0								
Ethylbenzene	ND	5.0								
Xylenes, Total	ND	10								
Surr: 4-Bromofluorobenzene	86		100.0		86.3	80	120			

Sample ID: LCS-46421	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 46421				RunNo: 61758					
Prep Date: 7/26/2019	Analysis Date: 7/30/2019				SeqNo: 2093644	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.0	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	95.0	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: DEVON ENERGY

Work Order Number: 1907D74

RcptNo: 1

Received By: Desiree Dominguez 7/26/2019 8:45:00 AM

Completed By: Michelle Garcia 7/26/2019 11:05:28 AM

Reviewed By: Danny Ferraro 7/26/2019

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
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 7/26/19

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	4.0	Good	Yes			

Released to Imaging: 10/14/2025 10:48:55 AM

Date: 1/25/91	Time: 1900	Relinquished by: 
---------------	------------	--

Received by: 1103 Via: Courier Date: 7/26/19 Time: 8:45

Chain-of-Custody Record

Client: Devon Energy

Mailing Address: 6488 N Rivers Hwy
Artesia, NM 88210

Phone #: 505-350-1336

email or Fax#: Amanda.Davis@DEVN.COM

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: 5 day
☐ Standard ☐ Rush

Project Name:
North Pine Golf 9 Fed 1

Project #:
1A E - 00575

Project Manager: Dennis Williams
Permit@Vertex.ca ; Amanda Davis
Amanda.Davis@DEVN.COM

Sampler: Jason Crabtree

On Ice: ☒ Yes ☐ No

of Coolers: 1

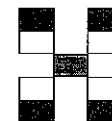
Cooler Temp (including CF): 3.9 to 4.0°C

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
7-24-19	10:30	S	SS19-10 0'	1 Jar	ice	013
	10:35		SS19-11 0'			014
	10:40		SS19-12 0'			015
	10:45		SS19-13 0'			016
	10:50		SS19-14 0'			017
	10:55		SS19-15 0'			018
	11:00		BH19-16 0'			019
	11:05		BH19-16 2'			020
	11:10		BH19-16 4'			021
	11:15		SS19-17 0'			022
	11:20		BH19-18 0'			023
	11:25		BH19-19 2'			024

Date: 7-25-19 Time: 1:20 PM Relinquished by: [Signature]

Date: 7/25/19 Time: 1900 Relinquished by: [Signature]

Received by: [Signature] Via: Courier Date: 7/26/19 Time: 8:45



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	Cd, Cr, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)											
X	X					X														

Remarks:

Released to Imaging: 10/14/2025 10:48:55 AM

□ EDD (Type)

1967D74

~~Dr~~ Considered 7/27/10 8:11



Analysis Request

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

Remarks:	
----------	--

7/25/19

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.

Received by OCD: 6/23/2025 8:35:18 AM

Page 244 of 393

Chain-of-Custody Record

Client: Devon Energy

Mailing Address: 6489 7 Rivers HWY

Artesia, NM 88210

Phone #: 505-350-1336

email or Fax#: Amanda.Davis@OVN.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 day

☐ Standard ☐ Rush

Project Name: North Pine Gold 9 Feb 1

Project #:
19E-00575

Project Manager: Denis Williams
Permitian@Vertex.ca; Amanda Davis
Amanda.Davis@DVN.com

Sampler: Jason Crabtree

On Ice: ☒ Yes ☐ No

Cooler Temp (including CF): 3.9 + 1 = 4.9 °C

Container Type and #	Container Name	Container ID	Container Image	Container Status	Container IP	Container MAC	Container CPU	Container Memory	Container Disk	Container Network	Container Description
Container Type and #	Container Name	Container ID	Container Image	Container Status	Container IP	Container MAC	Container CPU	Container Memory	Container Disk	Container Network	Container Description

Preservative
Type

HEAL No. 907074

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Date: 7-25-19	Time: 1:20 PM	Relinquished by: 
------------------	------------------	---

Received by: [Signature] Via: _____ Date: 1-1-81 Time: 1330

Remarks:	
----------	--

Date:	Time:	Relinquished by:
12/25/19	1900	

Received by: JA Via: 7-311 Date: 7/26/19 Time: 8:45



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

August 27, 2021

Brandon Schafer
Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220
TEL: (505) 506-0040
FAX

RE: North Pure Gold 9 Federal 1H

OrderNo.: 2108C50

Dear Brandon Schafer:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/24/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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 2108C50

Date Reported: 8/27/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS21-08 0.0'

Project: North Pure Gold 9 Federal 1H

Collection Date: 8/20/2021 11:00:00 AM

Lab ID: 2108C50-001

Matrix: SOIL

Received Date: 8/24/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	8/25/2021 11:31:28 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	8/25/2021 11:31:28 AM
Surr: DNOP	112	70-130		%Rec	1	8/25/2021 11:31:28 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/25/2021 6:34:00 PM
Surr: BFB	89.7	70-130		%Rec	1	8/25/2021 6:34:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/25/2021 6:34:00 PM
Toluene	ND	0.047		mg/Kg	1	8/25/2021 6:34:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	8/25/2021 6:34:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	8/25/2021 6:34:00 PM
Surr: 4-Bromofluorobenzene	79.7	70-130		%Rec	1	8/25/2021 6:34:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	8/25/2021 2:59:43 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 2108C50

Date Reported: 8/27/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS21-09 0.0'

Project: North Pure Gold 9 Federal 1H

Collection Date: 8/20/2021 11:20:00 AM

Lab ID: 2108C50-002

Matrix: SOIL

Received Date: 8/24/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/25/2021 11:41:09 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/25/2021 11:41:09 AM
Surr: DNOP	115	70-130		%Rec	1	8/25/2021 11:41:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/25/2021 6:55:00 PM
Surr: BFB	90.7	70-130		%Rec	1	8/25/2021 6:55:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/25/2021 6:55:00 PM
Toluene	ND	0.048		mg/Kg	1	8/25/2021 6:55:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/25/2021 6:55:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	8/25/2021 6:55:00 PM
Surr: 4-Bromofluorobenzene	80.7	70-130		%Rec	1	8/25/2021 6:55:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	8/25/2021 3:12:08 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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#: 2108C50

27-Aug-21

Client: Vertex Resources Services, Inc.
Project: North Pure Gold 9 Federal 1H

Sample ID: MB-62175		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 62175			RunNo: 80774						
Prep Date: 8/25/2021	Analysis Date: 8/25/2021			SeqNo: 2850725		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62175		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 62175			RunNo: 80774						
Prep Date: 8/25/2021	Analysis Date: 8/25/2021			SeqNo: 2850726		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical 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 3 of 6

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

WO#: 2108C50

27-Aug-21

Client: Vertex Resources Services, Inc.**Project:** North Pure Gold 9 Federal 1H

Sample ID: LCS-62161	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 62161			RunNo: 80792						
Prep Date: 8/24/2021	Analysis Date: 8/25/2021			SeqNo: 2850637		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.9	68.9	141			
Surr: DNOP	5.6		5.000		112	70	130			

Sample ID: MB-62161	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 62161			RunNo: 80792						
Prep Date: 8/24/2021	Analysis Date: 8/25/2021			SeqNo: 2850638		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		114	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2108C50
27-Aug-21

Client: Vertex Resources Services, Inc.
Project: North Pure Gold 9 Federal 1H

Sample ID: mb-62156	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 62156	RunNo: 80776								
Prep Date: 8/24/2021	Analysis Date: 8/25/2021	SeqNo: 2850947		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.1	70	130			

Sample ID: lcs-62156	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 62156	RunNo: 80776								
Prep Date: 8/24/2021	Analysis Date: 8/25/2021	SeqNo: 2850948		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	78.6	131			
Surr: BFB	1100		1000		112	70	130			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2108C50

27-Aug-21

Client: Vertex Resources Services, Inc.**Project:** North Pure Gold 9 Federal 1H

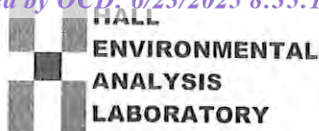
Sample ID: mb-62156	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 62156	RunNo: 80776								
Prep Date: 8/24/2021	Analysis Date: 8/25/2021	SeqNo: 2850971 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.81		1.000		80.8	70	130			

Sample ID: lcs-62156	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 62156	RunNo: 80776								
Prep Date: 8/24/2021	Analysis Date: 8/25/2021	SeqNo: 2850972 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.6	80	120			
Toluene	0.86	0.050	1.000	0	85.8	80	120			
Ethylbenzene	0.89	0.050	1.000	0	88.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.9	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		84.3	70	130			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2108C50

RcptNo: 1

Received By: Cheyenne Cason 8/24/2021 7:15:00 AM

Completed By: Sean Livingston 8/24/2021 8:37:04 AM

Reviewed By: KPA 8/24/21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
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 ☐ Adjusted? ☐
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: SPA 8-24-21

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good				



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

June 01, 2020

Natalie Gordon

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: North Pure Gold 9 Fed 1

OrderNo.: 2005854

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 19 sample(s) on 5/20/2020 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued May 29, 2020.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-08 12-24"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 12:20:00 PM

Lab ID: 2005854-001

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	850	190		mg/Kg	20	5/23/2020 8:01:52 AM
Motor Oil Range Organics (MRO)	1100	950		mg/Kg	20	5/23/2020 8:01:52 AM
Surr: DNOP	0	55.1-146	S	%Rec	20	5/23/2020 8:01:52 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/23/2020 10:03:04 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	5/23/2020 5:19:15 PM
Toluene	ND	0.047		mg/Kg	1	5/23/2020 5:19:15 PM
Ethylbenzene	ND	0.047		mg/Kg	1	5/23/2020 5:19:15 PM
Xylenes, Total	ND	0.095		mg/Kg	1	5/23/2020 5:19:15 PM
Surr: 1,2-Dichloroethane-d4	89.3	70-130		%Rec	1	5/23/2020 5:19:15 PM
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	5/23/2020 5:19:15 PM
Surr: Dibromofluoromethane	103	70-130		%Rec	1	5/23/2020 5:19:15 PM
Surr: Toluene-d8	99.6	70-130		%Rec	1	5/23/2020 5:19:15 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/23/2020 5:19:15 PM
Surr: BFB	91.7	70-130		%Rec	1	5/23/2020 5:19:15 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-09 12-24"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 12:31:00 PM

Lab ID: 2005854-002

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	2300	460		mg/Kg	50	5/23/2020 8:25:57 AM
Motor Oil Range Organics (MRO)	3700	2300		mg/Kg	50	5/23/2020 8:25:57 AM
Surr: DNOP	0	55.1-146	S	%Rec	50	5/23/2020 8:25:57 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/23/2020 10:15:28 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	5/23/2020 5:47:46 PM
Toluene	ND	0.049		mg/Kg	1	5/23/2020 5:47:46 PM
Ethylbenzene	ND	0.049		mg/Kg	1	5/23/2020 5:47:46 PM
Xylenes, Total	ND	0.098		mg/Kg	1	5/23/2020 5:47:46 PM
Surr: 1,2-Dichloroethane-d4	89.6	70-130		%Rec	1	5/23/2020 5:47:46 PM
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	5/23/2020 5:47:46 PM
Surr: Dibromofluoromethane	103	70-130		%Rec	1	5/23/2020 5:47:46 PM
Surr: Toluene-d8	103	70-130		%Rec	1	5/23/2020 5:47:46 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/23/2020 5:47:46 PM
Surr: BFB	93.6	70-130		%Rec	1	5/23/2020 5:47:46 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-10 12-24"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 12:51:00 PM

Lab ID: 2005854-003

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/23/2020 8:50:07 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/23/2020 8:50:07 AM
Surr: DNOP	96.4	55.1-146		%Rec	1	5/23/2020 8:50:07 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	4000	150		mg/Kg	50	5/27/2020 1:17:58 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	5/23/2020 6:16:17 PM
Toluene	ND	0.048		mg/Kg	1	5/23/2020 6:16:17 PM
Ethylbenzene	ND	0.048		mg/Kg	1	5/23/2020 6:16:17 PM
Xylenes, Total	ND	0.097		mg/Kg	1	5/23/2020 6:16:17 PM
Surr: 1,2-Dichloroethane-d4	88.0	70-130		%Rec	1	5/23/2020 6:16:17 PM
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	5/23/2020 6:16:17 PM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	5/23/2020 6:16:17 PM
Surr: Toluene-d8	102	70-130		%Rec	1	5/23/2020 6:16:17 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/23/2020 6:16:17 PM
Surr: BFB	92.5	70-130		%Rec	1	5/23/2020 6:16:17 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	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 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-11 12-24"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 1:06:00 PM

Lab ID: 2005854-004

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	350	93		mg/Kg	10	5/23/2020 9:14:14 AM
Motor Oil Range Organics (MRO)	600	460		mg/Kg	10	5/23/2020 9:14:14 AM
Surr: DNOP	0	55.1-146	S	%Rec	10	5/23/2020 9:14:14 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/23/2020 11:05:06 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	5/23/2020 6:44:45 PM
Toluene	ND	0.048		mg/Kg	1	5/23/2020 6:44:45 PM
Ethylbenzene	ND	0.048		mg/Kg	1	5/23/2020 6:44:45 PM
Xylenes, Total	ND	0.097		mg/Kg	1	5/23/2020 6:44:45 PM
Surr: 1,2-Dichloroethane-d4	93.0	70-130		%Rec	1	5/23/2020 6:44:45 PM
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	5/23/2020 6:44:45 PM
Surr: Dibromofluoromethane	107	70-130		%Rec	1	5/23/2020 6:44:45 PM
Surr: Toluene-d8	102	70-130		%Rec	1	5/23/2020 6:44:45 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/23/2020 6:44:45 PM
Surr: BFB	92.3	70-130		%Rec	1	5/23/2020 6:44:45 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-12 12-24"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 1:23:00 PM

Lab ID: 2005854-005

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/23/2020 9:38:28 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/23/2020 9:38:28 AM
Surr: DNOP	121	55.1-146		%Rec	1	5/23/2020 9:38:28 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/23/2020 11:17:31 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.023		mg/Kg	1	5/23/2020 7:13:12 PM
Toluene	ND	0.046		mg/Kg	1	5/23/2020 7:13:12 PM
Ethylbenzene	ND	0.046		mg/Kg	1	5/23/2020 7:13:12 PM
Xylenes, Total	ND	0.093		mg/Kg	1	5/23/2020 7:13:12 PM
Surr: 1,2-Dichloroethane-d4	89.2	70-130		%Rec	1	5/23/2020 7:13:12 PM
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	5/23/2020 7:13:12 PM
Surr: Dibromofluoromethane	101	70-130		%Rec	1	5/23/2020 7:13:12 PM
Surr: Toluene-d8	102	70-130		%Rec	1	5/23/2020 7:13:12 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/23/2020 7:13:12 PM
Surr: BFB	92.5	70-130		%Rec	1	5/23/2020 7:13:12 PM

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

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

Analytical Report

Lab Order 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-13 12-24"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 1:51:00 PM

Lab ID: 2005854-006

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	21	9.7		mg/Kg	1	5/26/2020 8:04:33 PM
Motor Oil Range Organics (MRO)	89	48		mg/Kg	1	5/26/2020 8:04:33 PM
Surr: DNOP	118	55.1-146		%Rec	1	5/26/2020 8:04:33 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/23/2020 11:29:51 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.023		mg/Kg	1	5/23/2020 7:41:41 PM
Toluene	ND	0.046		mg/Kg	1	5/23/2020 7:41:41 PM
Ethylbenzene	ND	0.046		mg/Kg	1	5/23/2020 7:41:41 PM
Xylenes, Total	ND	0.092		mg/Kg	1	5/23/2020 7:41:41 PM
Surr: 1,2-Dichloroethane-d4	91.8	70-130		%Rec	1	5/23/2020 7:41:41 PM
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	5/23/2020 7:41:41 PM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	5/23/2020 7:41:41 PM
Surr: Toluene-d8	105	70-130		%Rec	1	5/23/2020 7:41:41 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/23/2020 7:41:41 PM
Surr: BFB	94.7	70-130		%Rec	1	5/23/2020 7:41:41 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	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 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-14 12-24"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:00:00 PM

Lab ID: 2005854-007

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	1000	95		mg/Kg	10	5/22/2020 4:41:04 PM
Motor Oil Range Organics (MRO)	1500	470		mg/Kg	10	5/22/2020 4:41:04 PM
Surr: DNOP	0	55.1-146	S	%Rec	10	5/22/2020 4:41:04 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/23/2020 11:42:16 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	5/23/2020 8:10:08 PM
Toluene	ND	0.049		mg/Kg	1	5/23/2020 8:10:08 PM
Ethylbenzene	ND	0.049		mg/Kg	1	5/23/2020 8:10:08 PM
Xylenes, Total	ND	0.097		mg/Kg	1	5/23/2020 8:10:08 PM
Surr: 1,2-Dichloroethane-d4	90.6	70-130		%Rec	1	5/23/2020 8:10:08 PM
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	5/23/2020 8:10:08 PM
Surr: Dibromofluoromethane	102	70-130		%Rec	1	5/23/2020 8:10:08 PM
Surr: Toluene-d8	103	70-130		%Rec	1	5/23/2020 8:10:08 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/23/2020 8:10:08 PM
Surr: BFB	93.9	70-130		%Rec	1	5/23/2020 8:10:08 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-15 0-12"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:06:00 PM

Lab ID: 2005854-008

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/26/2020 9:17:22 PM
Motor Oil Range Organics (MRO)	58	47		mg/Kg	1	5/26/2020 9:17:22 PM
Surr: DNOP	107	55.1-146		%Rec	1	5/26/2020 9:17:22 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/23/2020 11:54:40 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	5/23/2020 8:38:35 PM
Toluene	ND	0.047		mg/Kg	1	5/23/2020 8:38:35 PM
Ethylbenzene	ND	0.047		mg/Kg	1	5/23/2020 8:38:35 PM
Xylenes, Total	ND	0.095		mg/Kg	1	5/23/2020 8:38:35 PM
Surr: 1,2-Dichloroethane-d4	87.2	70-130		%Rec	1	5/23/2020 8:38:35 PM
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	5/23/2020 8:38:35 PM
Surr: Dibromofluoromethane	103	70-130		%Rec	1	5/23/2020 8:38:35 PM
Surr: Toluene-d8	101	70-130		%Rec	1	5/23/2020 8:38:35 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/23/2020 8:38:35 PM
Surr: BFB	91.7	70-130		%Rec	1	5/23/2020 8:38:35 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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		

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Analytical Report

Lab Order 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-16 0-12"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:20:00 PM

Lab ID: 2005854-009

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	34	9.6		mg/Kg	1	5/26/2020 9:41:42 PM
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	5/26/2020 9:41:42 PM
Surr: DNOP	87.2	55.1-146		%Rec	1	5/26/2020 9:41:42 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/24/2020 12:07:05 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	5/23/2020 9:06:59 PM
Toluene	ND	0.049		mg/Kg	1	5/23/2020 9:06:59 PM
Ethylbenzene	ND	0.049		mg/Kg	1	5/23/2020 9:06:59 PM
Xylenes, Total	ND	0.098		mg/Kg	1	5/23/2020 9:06:59 PM
Surr: 1,2-Dichloroethane-d4	88.6	70-130		%Rec	1	5/23/2020 9:06:59 PM
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	5/23/2020 9:06:59 PM
Surr: Dibromofluoromethane	102	70-130		%Rec	1	5/23/2020 9:06:59 PM
Surr: Toluene-d8	103	70-130		%Rec	1	5/23/2020 9:06:59 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/23/2020 9:06:59 PM
Surr: BFB	91.0	70-130		%Rec	1	5/23/2020 9:06:59 PM

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

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

Analytical Report

Lab Order 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-17 0-12"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:32:00 PM

Lab ID: 2005854-010

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	580	99		mg/Kg	10	5/22/2020 5:53:26 PM
Motor Oil Range Organics (MRO)	590	490		mg/Kg	10	5/22/2020 5:53:26 PM
Surr: DNOP	0	55.1-146	S	%Rec	10	5/22/2020 5:53:26 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	120	60		mg/Kg	20	5/24/2020 12:19:29 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	5/23/2020 9:35:31 PM
Toluene	ND	0.047		mg/Kg	1	5/23/2020 9:35:31 PM
Ethylbenzene	ND	0.047		mg/Kg	1	5/23/2020 9:35:31 PM
Xylenes, Total	ND	0.095		mg/Kg	1	5/23/2020 9:35:31 PM
Surr: 1,2-Dichloroethane-d4	90.5	70-130		%Rec	1	5/23/2020 9:35:31 PM
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	5/23/2020 9:35:31 PM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	5/23/2020 9:35:31 PM
Surr: Toluene-d8	103	70-130		%Rec	1	5/23/2020 9:35:31 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/23/2020 9:35:31 PM
Surr: BFB	92.5	70-130		%Rec	1	5/23/2020 9:35:31 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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		

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Analytical Report

Lab Order 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-18 0-12"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:34:00 PM

Lab ID: 2005854-011

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/22/2020 6:17:50 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/22/2020 6:17:50 PM
Surr: DNOP	116	55.1-146		%Rec	1	5/22/2020 6:17:50 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/24/2020 12:31:53 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	5/23/2020 10:04:09 PM
Toluene	ND	0.049		mg/Kg	1	5/23/2020 10:04:09 PM
Ethylbenzene	ND	0.049		mg/Kg	1	5/23/2020 10:04:09 PM
Xylenes, Total	ND	0.099		mg/Kg	1	5/23/2020 10:04:09 PM
Surr: 1,2-Dichloroethane-d4	89.9	70-130		%Rec	1	5/23/2020 10:04:09 PM
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	5/23/2020 10:04:09 PM
Surr: Dibromofluoromethane	103	70-130		%Rec	1	5/23/2020 10:04:09 PM
Surr: Toluene-d8	101	70-130		%Rec	1	5/23/2020 10:04:09 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/23/2020 10:04:09 PM
Surr: BFB	90.5	70-130		%Rec	1	5/23/2020 10:04:09 PM

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-08

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:46:00 PM

Lab ID: 2005854-012

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	5/22/2020 6:42:14 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/22/2020 6:42:14 PM
Surr: DNOP	91.8	55.1-146		%Rec	1	5/22/2020 6:42:14 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/24/2020 12:44:18 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	5/24/2020 1:23:48 AM
Toluene	ND	0.049		mg/Kg	1	5/24/2020 1:23:48 AM
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2020 1:23:48 AM
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2020 1:23:48 AM
Surr: 1,2-Dichloroethane-d4	87.5	70-130		%Rec	1	5/24/2020 1:23:48 AM
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	5/24/2020 1:23:48 AM
Surr: Dibromofluoromethane	103	70-130		%Rec	1	5/24/2020 1:23:48 AM
Surr: Toluene-d8	101	70-130		%Rec	1	5/24/2020 1:23:48 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2020 1:23:48 AM
Surr: BFB	90.8	70-130		%Rec	1	5/24/2020 1:23:48 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	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 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-09

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:51:00 PM

Lab ID: 2005854-013

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/22/2020 7:06:39 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/22/2020 7:06:39 PM
Surr: DNOP	61.1	55.1-146		%Rec	1	5/22/2020 7:06:39 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	59		mg/Kg	20	5/24/2020 12:56:42 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	5/24/2020 2:49:22 AM
Toluene	ND	0.049		mg/Kg	1	5/24/2020 2:49:22 AM
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2020 2:49:22 AM
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2020 2:49:22 AM
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%Rec	1	5/24/2020 2:49:22 AM
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	5/24/2020 2:49:22 AM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	5/24/2020 2:49:22 AM
Surr: Toluene-d8	101	70-130		%Rec	1	5/24/2020 2:49:22 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2020 2:49:22 AM
Surr: BFB	90.3	70-130		%Rec	1	5/24/2020 2:49:22 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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		

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Analytical Report

Lab Order 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-10

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:53:00 PM

Lab ID: 2005854-014

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/22/2020 7:30:55 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/22/2020 7:30:55 PM
Surr: DNOP	73.4	55.1-146		%Rec	1	5/22/2020 7:30:55 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	120	60		mg/Kg	20	5/24/2020 1:33:54 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	5/24/2020 3:17:46 AM
Toluene	ND	0.050		mg/Kg	1	5/24/2020 3:17:46 AM
Ethylbenzene	ND	0.050		mg/Kg	1	5/24/2020 3:17:46 AM
Xylenes, Total	ND	0.10		mg/Kg	1	5/24/2020 3:17:46 AM
Surr: 1,2-Dichloroethane-d4	87.0	70-130		%Rec	1	5/24/2020 3:17:46 AM
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	5/24/2020 3:17:46 AM
Surr: Dibromofluoromethane	103	70-130		%Rec	1	5/24/2020 3:17:46 AM
Surr: Toluene-d8	102	70-130		%Rec	1	5/24/2020 3:17:46 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/24/2020 3:17:46 AM
Surr: BFB	91.2	70-130		%Rec	1	5/24/2020 3:17:46 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-11

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:56:00 PM

Lab ID: 2005854-015

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	530	93		mg/Kg	10	5/27/2020 3:19:29 PM
Motor Oil Range Organics (MRO)	1100	460		mg/Kg	10	5/27/2020 3:19:29 PM
Surr: DNOP	0	55.1-146	S	%Rec	10	5/27/2020 3:19:29 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/24/2020 1:46:19 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	5/24/2020 9:12:12 PM
Toluene	ND	0.049		mg/Kg	1	5/24/2020 9:12:12 PM
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2020 9:12:12 PM
Xylenes, Total	ND	0.099		mg/Kg	1	5/24/2020 9:12:12 PM
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%Rec	1	5/24/2020 9:12:12 PM
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	5/24/2020 9:12:12 PM
Surr: Dibromofluoromethane	92.2	70-130		%Rec	1	5/24/2020 9:12:12 PM
Surr: Toluene-d8	96.0	70-130		%Rec	1	5/24/2020 9:12:12 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2020 9:12:12 PM
Surr: BFB	102	70-130		%Rec	1	5/24/2020 9:12:12 PM

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-12

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 3:00:00 PM

Lab ID: 2005854-016

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	5/22/2020 8:19:59 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/22/2020 8:19:59 PM
Surr: DNOP	93.3	55.1-146		%Rec	1	5/22/2020 8:19:59 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	120	60		mg/Kg	20	5/24/2020 1:58:44 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	5/24/2020 9:41:38 PM
Toluene	ND	0.048		mg/Kg	1	5/24/2020 9:41:38 PM
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2020 9:41:38 PM
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2020 9:41:38 PM
Surr: 1,2-Dichloroethane-d4	89.9	70-130		%Rec	1	5/24/2020 9:41:38 PM
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	5/24/2020 9:41:38 PM
Surr: Dibromofluoromethane	93.2	70-130		%Rec	1	5/24/2020 9:41:38 PM
Surr: Toluene-d8	100	70-130		%Rec	1	5/24/2020 9:41:38 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2020 9:41:38 PM
Surr: BFB	104	70-130		%Rec	1	5/24/2020 9:41:38 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-13

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 3:02:00 PM

Lab ID: 2005854-017

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/22/2020 8:44:22 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/22/2020 8:44:22 PM
Surr: DNOP	106	55.1-146		%Rec	1	5/22/2020 8:44:22 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	59		mg/Kg	20	5/24/2020 2:11:09 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.023		mg/Kg	1	5/24/2020 10:10:45 PM
Toluene	ND	0.047		mg/Kg	1	5/24/2020 10:10:45 PM
Ethylbenzene	ND	0.047		mg/Kg	1	5/24/2020 10:10:45 PM
Xylenes, Total	ND	0.093		mg/Kg	1	5/24/2020 10:10:45 PM
Surr: 1,2-Dichloroethane-d4	91.3	70-130		%Rec	1	5/24/2020 10:10:45 PM
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	5/24/2020 10:10:45 PM
Surr: Dibromofluoromethane	91.9	70-130		%Rec	1	5/24/2020 10:10:45 PM
Surr: Toluene-d8	103	70-130		%Rec	1	5/24/2020 10:10:45 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/24/2020 10:10:45 PM
Surr: BFB	107	70-130		%Rec	1	5/24/2020 10:10:45 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-14

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 3:08:00 PM

Lab ID: 2005854-018

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	880	96		mg/Kg	10	5/22/2020 9:08:39 PM
Motor Oil Range Organics (MRO)	860	480		mg/Kg	10	5/22/2020 9:08:39 PM
Surr: DNOP	0	55.1-146	S	%Rec	10	5/22/2020 9:08:39 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	200	59		mg/Kg	20	5/26/2020 10:27:24 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	5/24/2020 10:40:20 PM
Toluene	ND	0.049		mg/Kg	1	5/24/2020 10:40:20 PM
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2020 10:40:20 PM
Xylenes, Total	ND	0.099		mg/Kg	1	5/24/2020 10:40:20 PM
Surr: 1,2-Dichloroethane-d4	91.7	70-130		%Rec	1	5/24/2020 10:40:20 PM
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	5/24/2020 10:40:20 PM
Surr: Dibromofluoromethane	91.8	70-130		%Rec	1	5/24/2020 10:40:20 PM
Surr: Toluene-d8	102	70-130		%Rec	1	5/24/2020 10:40:20 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2020 10:40:20 PM
Surr: BFB	107	70-130		%Rec	1	5/24/2020 10:40:20 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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 2005854

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-15

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 3:12:00 PM

Lab ID: 2005854-019

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	17	9.5		mg/Kg	1	5/27/2020 2:58:23 PM
Motor Oil Range Organics (MRO)	77	48		mg/Kg	1	5/27/2020 2:58:23 PM
Surr: DNOP	116	55.1-146		%Rec	1	5/27/2020 2:58:23 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/26/2020 11:04:27 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	5/24/2020 11:09:42 PM
Toluene	ND	0.050		mg/Kg	1	5/24/2020 11:09:42 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/24/2020 11:09:42 PM
Xylenes, Total	ND	0.10		mg/Kg	1	5/24/2020 11:09:42 PM
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%Rec	1	5/24/2020 11:09:42 PM
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	5/24/2020 11:09:42 PM
Surr: Dibromofluoromethane	98.6	70-130		%Rec	1	5/24/2020 11:09:42 PM
Surr: Toluene-d8	96.9	70-130		%Rec	1	5/24/2020 11:09:42 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/24/2020 11:09:42 PM
Surr: BFB	99.6	70-130		%Rec	1	5/24/2020 11:09:42 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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#: 2005854

01-Jun-20

Client: Devon Energy
Project: North Pure Gold 9 Fed 1

Sample ID: MB-52667	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 52667	RunNo: 69127								
Prep Date: 5/23/2020	Analysis Date: 5/23/2020	SeqNo: 2395515		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-52667	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 52667	RunNo: 69127								
Prep Date: 5/23/2020	Analysis Date: 5/23/2020	SeqNo: 2395516		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.9	90	110			

Sample ID: MB-52670	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 52670	RunNo: 69129								
Prep Date: 5/23/2020	Analysis Date: 5/23/2020	SeqNo: 2395565		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-52670	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 52670	RunNo: 69129								
Prep Date: 5/23/2020	Analysis Date: 5/23/2020	SeqNo: 2395566		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Sample ID: MB-52701	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 52701	RunNo: 69163								
Prep Date: 5/26/2020	Analysis Date: 5/26/2020	SeqNo: 2396888		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-52701	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 52701	RunNo: 69163								
Prep Date: 5/26/2020	Analysis Date: 5/26/2020	SeqNo: 2396889		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.1	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 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 20 of 26

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

WO#: 2005854

01-Jun-20

Client: Devon Energy**Project:** North Pure Gold 9 Fed 1

Sample ID: MB-52630	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 52630	RunNo: 69011								
Prep Date: 5/21/2020	Analysis Date: 5/22/2020	SeqNo: 2395783 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		128	55.1	146			

Sample ID: MB-52635	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 52635	RunNo: 69011								
Prep Date: 5/21/2020	Analysis Date: 5/22/2020	SeqNo: 2395784 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		115	55.1	146			

Sample ID: LCS-52630	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 52630	RunNo: 69011								
Prep Date: 5/21/2020	Analysis Date: 5/23/2020	SeqNo: 2395786 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	70	130			
Surr: DNOP	5.1		5.000		103	55.1	146			

Sample ID: LCS-52635	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 52635	RunNo: 69011								
Prep Date: 5/21/2020	Analysis Date: 5/22/2020	SeqNo: 2395787 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	70	130			
Surr: DNOP	4.9		5.000		97.7	55.1	146			

Sample ID: 2005854-006AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS20-13 12-24"	Batch ID: 52635	RunNo: 69134								
Prep Date: 5/21/2020	Analysis Date: 5/26/2020	SeqNo: 2397074 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	8.9	44.52	38.75	25.4	47.4	136			S
Surr: DNOP	3.7		4.452		83.4	55.1	146			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005854

01-Jun-20

Client: Devon Energy
Project: North Pure Gold 9 Fed 1

Sample ID: 2005854-006AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS20-13 12-24"	Batch ID: 52635	RunNo: 69134								
Prep Date: 5/21/2020	Analysis Date: 5/26/2020	SeqNo: 2397075 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	49.95	38.75	19.9	47.4	136	2.82	43.4	S
Surr: DNOP	4.2		4.995		83.4	55.1	146	0	0	

Sample ID: MB-52681	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 52681	RunNo: 69134								
Prep Date: 5/26/2020	Analysis Date: 5/27/2020	SeqNo: 2397783 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		102	55.1	146			

Sample ID: LCS-52681	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 52681	RunNo: 69134								
Prep Date: 5/26/2020	Analysis Date: 5/27/2020	SeqNo: 2397784 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		102	55.1	146			

Qualifiers:

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

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

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

WO#: 2005854

01-Jun-20

Client: Devon Energy**Project:** North Pure Gold 9 Fed 1

Sample ID: mb-52622	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 52622	RunNo: 69107								
Prep Date: 5/21/2020	Analysis Date: 5/22/2020	SeqNo: 2393966	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	0.42		0.5000		84.2	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.7	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		103	70	130			
Surr: Toluene-d8	0.47		0.5000		94.2	70	130			

Sample ID: lcs-52622	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 52622	RunNo: 69107								
Prep Date: 5/21/2020	Analysis Date: 5/22/2020	SeqNo: 2393967	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	0.95	0.050	1.000	0	95.4	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.5	80	120			
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		83.0	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.5	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		103	70	130			
Surr: Toluene-d8	0.47		0.5000		94.4	70	130			

Sample ID: mb-52634	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 52634	RunNo: 69117								
Prep Date: 5/21/2020	Analysis Date: 5/23/2020	SeqNo: 2394351	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	0.45		0.5000		89.6	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.5	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical 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#: 2005854

01-Jun-20

Client: Devon Energy**Project:** North Pure Gold 9 Fed 1

Sample ID: Ics-52634	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 52634	RunNo: 69117								
Prep Date: 5/21/2020	Analysis Date: 5/23/2020	SeqNo: 2394352	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.6	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.1	0.050	1.000	0	110	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.2	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		89.6	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130			

Sample ID: 2005854-011ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BS20-18 0-12"	Batch ID: 52634	RunNo: 69117								
Prep Date: 5/21/2020	Analysis Date: 5/23/2020	SeqNo: 2394354	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.024	0.9756	0	101	71.1	115			
Toluene	1.0	0.049	0.9756	0	103	79.6	132			
Ethylbenzene	1.1	0.049	0.9756	0	110	83.8	134			
Xylenes, Total	3.2	0.098	2.927	0	108	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.43		0.4878		88.3	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.4878		91.5	70	130			
Surr: Dibromofluoromethane	0.49		0.4878		101	70	130			
Surr: Toluene-d8	0.49		0.4878		100	70	130			

Sample ID: 2005854-011amsd	SampType: MSD4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BS20-18 0-12"	Batch ID: 52634	RunNo: 69117								
Prep Date: 5/21/2020	Analysis Date: 5/24/2020	SeqNo: 2394355	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.023	0.9217	0	101	71.1	115	5.48	20	
Toluene	0.98	0.046	0.9217	0	106	79.6	132	3.06	20	
Ethylbenzene	1.0	0.046	0.9217	0	112	83.8	134	3.14	20	
Xylenes, Total	3.0	0.092	2.765	0	109	82.4	132	4.72	20	
Surr: 1,2-Dichloroethane-d4	0.41		0.4608		88.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.41		0.4608		88.2	70	130	0	0	
Surr: Dibromofluoromethane	0.47		0.4608		103	70	130	0	0	
Surr: Toluene-d8	0.47		0.4608		101	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical 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#: 2005854

01-Jun-20

Client: Devon Energy
Project: North Pure Gold 9 Fed 1

Sample ID: mb-52622	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 52622			RunNo: 69107						
Prep Date: 5/21/2020	Analysis Date: 5/22/2020			SeqNo: 2394004		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	490		500.0		98.6	70	130			

Sample ID: lcs-52622	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 52622			RunNo: 69107						
Prep Date: 5/21/2020	Analysis Date: 5/22/2020			SeqNo: 2394005		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	5.0	25.00	0	77.9	70	130			
Surr: BFB	480		500.0		96.5	70	130			

Sample ID: mb-52634	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 52634			RunNo: 69117						
Prep Date: 5/21/2020	Analysis Date: 5/23/2020			SeqNo: 2394380		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	460		500.0		92.6	70	130			

Sample ID: lcs-52634	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 52634			RunNo: 69117						
Prep Date: 5/21/2020	Analysis Date: 5/23/2020			SeqNo: 2394381		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.0	70	130			
Surr: BFB	460		500.0		92.4	70	130			

Sample ID: 2005854-012ams	SampType: MS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: WS20-08	Batch ID: 52634			RunNo: 69117						
Prep Date: 5/21/2020	Analysis Date: 5/24/2020			SeqNo: 2394384		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	24.85	0	87.2	70	130			
Surr: BFB	460		497.0		92.1	70	130			

Sample ID: 2005854-012amsd	SampType: MSD			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: WS20-08	Batch ID: 52634			RunNo: 69117						
Prep Date: 5/21/2020	Analysis Date: 5/24/2020			SeqNo: 2394385		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2005854
01-Jun-20

Client: Devon Energy
Project: North Pure Gold 9 Fed 1

Sample ID: 2005854-012amsd		SampType: MSD		TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: WS20-08		Batch ID: 52634		RunNo: 69117						
Prep Date: 5/21/2020		Analysis Date: 5/24/2020		SeqNo: 2394385		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.6	23.06	0	89.3	70	130	5.11	20	
Surr: BFB	420		461.3		92.1	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

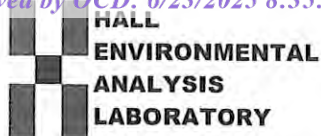
Analyte detected in the associated Method Blank
- E

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: **DEVON ENERGY**Work Order Number: **2005854**

RcptNo: 1

Received By: **Juan Rojas**

5/20/2020 9:50:00 AM

Completed By: **Desiree Dominguez**

5/20/2020 9:59:13 AM

Reviewed By: **DAS 5/20/20**

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *gm 5/20/20*

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	1.8	Good	Not Present			
2	2.0	Good	Not Present			
3	2.0	Good	Not Present			
4	1.1	Good	Not Present			

Chain-of-Custody Record

Turn-Around Time: 5 DAY TAT

Client: Devon Energy

☒ Standard ☐ Rush

Project Name:

North Pure Gold 9 Fed 1

Project #:

9030003990

Project Manager:

Natalie Gordon

Sampler: Kevin Smith

On Ice: ☐ Yes ☐ No

of Coolers: 4

Cooler Temp (including CF): See Remarks (°C)

Container
Type and #Preservative
TypeHEAL No.
2005854

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
5/18/20	12:30	Soil	BS20-08 12-24"	4 oz jar	ICE	-001
	12:31		BS20-09 12-24"			-002
	12:51		BS20-10 12-24"			-003
	1:06		BS20-11 12-24"			-004
	1:23		BS20-12 12-24"			-005
	1:51		BS20-13 12-24"			-006
	2:00		BS20-14 12-24"			-007
	2:06		BS20-15 0-12"			-008
	2:20		BS20-16 0-12"			-009
	2:32		BS20-17 0-12"			-010
	2:34		BS20-18 0-12"			-011
	2:46		WS20-08			-012

Date: Time: Relinquished by:

Received by: Via:

Date Time

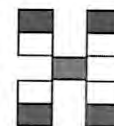
Remarks:

Date: Time: Relinquished by:

Received by: Via:

Date Time

Remarks:

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 ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)										
X	X					X													

1.9-0.1=1.8 Send to Natalie Gordon
 2.1-0.1=2.0
 2.1-0.1=2.0 Direct bill Devon
 1.2-0.1=1.1



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carttar
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 5/13/2025 4:43:57 PM

JOB DESCRIPTION

North Pure Gold 9 Fed 1

JOB NUMBER

885-24275-1

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
(505)345-3975

Generated
5/13/2025 4:43:57 PM

Client: Vertex
Project/Site: North Pure Gold 9 Fed 1

Laboratory Job ID: 885-24275-1

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Definitions/Glossary

Client: Vertex

Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
S1-	Surrogate recovery exceeds control limits, low biased.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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 9 Fed 1

Job ID: 885-24275-1

Job ID: 885-24275-1**Eurofins Albuquerque**

Job Narrative
885-24275-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/6/2025 7:40 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 2.8°C.

Gasoline Range Organics

Method 8015D_GRO: Surrogate recovery for the following sample was outside control limits: BS25-53 (2') (885-24275-32). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D_GRO: Due to the high concentration of GRO, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 885-25670 and analytical batch 885-25791 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8015D_GRO: Surrogate recovery for the following samples were outside control limits: (885-24275-A-32-B MS) and (885-24275-A-32-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D_GRO: Surrogate recovery for the following samples were outside control limits: BS25-39 (2') (885-24275-21), BS25-40 (2') (885-24275-22), BS25-41 (2') (885-24275-23), BS25-45 (2') (885-24275-25) and BS25-46 (2') (885-24275-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D_GRO: Surrogate recovery for the following samples were outside control limits: BS25-55 (2') (885-24275-34), BS25-56 (2') (885-24275-35) and BS25-60 (2') (885-24275-39). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D_GRO: Surrogate recovery for the following sample was outside control limits: BS25-54 (2') (885-24275-33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BS25-45 (2') (885-24275-25) and BS25-46 (2') (885-24275-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BS25-60 (2') (885-24275-39). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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: Surrogate recovery for the following sample is outside the lower control limit: BS25-39 (2') (885-24275-21). Due to possible matrix effect, surrogate is outside lower control limit. MS/MSD have passing surrogate.

Method 8015D_DRO: The following samples required a dilution due to the nature of the sample matrix: BS25-24 (1') (885-24275-6), BS25-40 (2') (885-24275-22), BS25-41 (2') (885-24275-23), BS25-45 (2') (885-24275-25), BS25-46 (2')

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Case Narrative

Client: Vertex
Project: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Job ID: 885-24275-1 (Continued)

Eurofins Albuquerque

(885-24275-26) and BS25-48 (2') (885-24275-27). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015D_DRO: Surrogate recovery for the following samples is outside the upper control limit: BS25-53 (2') (885-24275-32), BS25-54 (2') (885-24275-33), BS25-55 (2') (885-24275-34), BS25-57 (2') (885-24275-36) and BS25-58 (2') (885-24275-37). These samples are diluted below calibration range for surrogate and matrix effect is also suspected. Therefore, these samples are reported.

Method 8015D_DRO: The following samples were diluted due to the nature of the sample matrix: BS25-56 (2') (885-24275-35) and BS25-60 (2') (885-24275-39)

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: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-19 (1')

Lab Sample ID: 885-24275-1

Date Collected: 05/02/25 10:10

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 11:52	05/07/25 17:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			05/06/25 11:52	05/07/25 17:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/25 11:52	05/07/25 17:25	1
Ethylbenzene	ND		0.048	mg/Kg		05/06/25 11:52	05/07/25 17:25	1
Toluene	ND		0.048	mg/Kg		05/06/25 11:52	05/07/25 17:25	1
Xylenes, Total	ND		0.096	mg/Kg		05/06/25 11:52	05/07/25 17:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			05/06/25 11:52	05/07/25 17:25	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		05/07/25 12:36	05/08/25 09:22	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/07/25 12:36	05/08/25 09:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	113		62 - 134			05/07/25 12:36	05/08/25 09:22	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/07/25 06:22	05/07/25 13:43	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-20 (1')

Lab Sample ID: 885-24275-2

Date Collected: 05/02/25 10:15

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 11:52	05/07/25 18:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			05/06/25 11:52	05/07/25 18:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/25 11:52	05/07/25 18:08	1
Ethylbenzene	ND		0.049	mg/Kg		05/06/25 11:52	05/07/25 18:08	1
Toluene	ND		0.049	mg/Kg		05/06/25 11:52	05/07/25 18:08	1
Xylenes, Total	ND		0.097	mg/Kg		05/06/25 11:52	05/07/25 18:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			05/06/25 11:52	05/07/25 18:08	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		9.1	mg/Kg		05/07/25 12:36	05/08/25 09:54	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/07/25 12:36	05/08/25 09:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134			05/07/25 12:36	05/08/25 09:54	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/07/25 08:40	05/07/25 10:55	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-21 (1')

Lab Sample ID: 885-24275-3

Date Collected: 05/02/25 10:20

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 11:52	05/07/25 18:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		35 - 166			05/06/25 11:52	05/07/25 18:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/25 11:52	05/07/25 18:30	1
Ethylbenzene	ND		0.048	mg/Kg		05/06/25 11:52	05/07/25 18:30	1
Toluene	ND		0.048	mg/Kg		05/06/25 11:52	05/07/25 18:30	1
Xylenes, Total	ND		0.096	mg/Kg		05/06/25 11:52	05/07/25 18:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			05/06/25 11:52	05/07/25 18:30	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]	1900		50	mg/Kg		05/07/25 12:36	05/08/25 10:04	5
Motor Oil Range Organics [C28-C40]	1100		250	mg/Kg		05/07/25 12:36	05/08/25 10:04	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	130		62 - 134			05/07/25 12:36	05/08/25 10:04	5

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75		60	mg/Kg		05/07/25 08:40	05/07/25 11:25	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-22 (1')

Lab Sample ID: 885-24275-4

Date Collected: 05/02/25 10:25

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 11:52	05/07/25 18:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		35 - 166			05/06/25 11:52	05/07/25 18:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/25 11:52	05/07/25 18:51	1
Ethylbenzene	ND		0.048	mg/Kg		05/06/25 11:52	05/07/25 18:51	1
Toluene	ND		0.048	mg/Kg		05/06/25 11:52	05/07/25 18:51	1
Xylenes, Total	ND		0.096	mg/Kg		05/06/25 11:52	05/07/25 18:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			05/06/25 11:52	05/07/25 18:51	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]	130		9.4	mg/Kg		05/07/25 12:36	05/09/25 09:28	1
Motor Oil Range Organics [C28-C40]	230		47	mg/Kg		05/07/25 12:36	05/09/25 09:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	123		62 - 134			05/07/25 12:36	05/09/25 09:28	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/07/25 08:40	05/07/25 12:14	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-23 (1')

Lab Sample ID: 885-24275-5

Date Collected: 05/02/25 10:30

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 11:52	05/07/25 19:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			05/06/25 11:52	05/07/25 19:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/06/25 11:52	05/07/25 19:13	1
Ethylbenzene	ND		0.049	mg/Kg		05/06/25 11:52	05/07/25 19:13	1
Toluene	ND		0.049	mg/Kg		05/06/25 11:52	05/07/25 19:13	1
Xylenes, Total	ND		0.099	mg/Kg		05/06/25 11:52	05/07/25 19:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			05/06/25 11:52	05/07/25 19:13	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]	250		9.5	mg/Kg		05/07/25 12:36	05/09/25 09:52	1
Motor Oil Range Organics [C28-C40]	230		47	mg/Kg		05/07/25 12:36	05/09/25 09:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	117		62 - 134			05/07/25 12:36	05/09/25 09:52	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	570		60	mg/Kg		05/07/25 08:40	05/07/25 12:24	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-24 (1')

Lab Sample ID: 885-24275-6

Date Collected: 05/02/25 10:35

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 11:52	05/07/25 19:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		35 - 166			05/06/25 11:52	05/07/25 19:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/25 11:52	05/07/25 19:35	1
Ethylbenzene	ND		0.048	mg/Kg		05/06/25 11:52	05/07/25 19:35	1
Toluene	ND		0.048	mg/Kg		05/06/25 11:52	05/07/25 19:35	1
Xylenes, Total	ND		0.096	mg/Kg		05/06/25 11:52	05/07/25 19:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			05/06/25 11:52	05/07/25 19:35	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]	2000		190	mg/Kg		05/07/25 12:36	05/09/25 10:15	20
Motor Oil Range Organics [C28-C40]	2400		970	mg/Kg		05/07/25 12:36	05/09/25 10:15	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			05/07/25 12:36	05/09/25 10:15	20

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13000		150	mg/Kg		05/07/25 08:40	05/09/25 10:40	50

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-25 (0-2')

Lab Sample ID: 885-24275-7

Date Collected: 05/02/25 10:40

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 11:52	05/07/25 19:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		35 - 166			05/06/25 11:52	05/07/25 19:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/06/25 11:52	05/07/25 19:56	1
Ethylbenzene	ND		0.049	mg/Kg		05/06/25 11:52	05/07/25 19:56	1
Toluene	ND		0.049	mg/Kg		05/06/25 11:52	05/07/25 19:56	1
Xylenes, Total	ND		0.099	mg/Kg		05/06/25 11:52	05/07/25 19:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		48 - 145			05/06/25 11:52	05/07/25 19:56	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]	60		9.6	mg/Kg		05/07/25 12:36	05/09/25 11:02	1
Motor Oil Range Organics [C28-C40]	48		48	mg/Kg		05/07/25 12:36	05/09/25 11:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	118		62 - 134			05/07/25 12:36	05/09/25 11:02	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3200		60	mg/Kg		05/07/25 08:40	05/07/25 12:43	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-26 (0-2')

Lab Sample ID: 885-24275-8

Date Collected: 05/02/25 10:45

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 11:52	05/07/25 20:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		35 - 166			05/06/25 11:52	05/07/25 20:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/25 11:52	05/07/25 20:18	1
Ethylbenzene	ND		0.047	mg/Kg		05/06/25 11:52	05/07/25 20:18	1
Toluene	ND		0.047	mg/Kg		05/06/25 11:52	05/07/25 20:18	1
Xylenes, Total	ND		0.095	mg/Kg		05/06/25 11:52	05/07/25 20:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		48 - 145			05/06/25 11:52	05/07/25 20:18	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		9.8	mg/Kg		05/07/25 12:36	05/09/25 11:25	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/07/25 12:36	05/09/25 11:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	120		62 - 134			05/07/25 12:36	05/09/25 11:25	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		60	mg/Kg		05/07/25 08:40	05/07/25 12:53	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-27 (0-2')

Lab Sample ID: 885-24275-9

Date Collected: 05/02/25 10:50

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 11:52	05/07/25 20:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		35 - 166			05/06/25 11:52	05/07/25 20:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/06/25 11:52	05/07/25 20:40	1
Ethylbenzene	ND		0.046	mg/Kg		05/06/25 11:52	05/07/25 20:40	1
Toluene	ND		0.046	mg/Kg		05/06/25 11:52	05/07/25 20:40	1
Xylenes, Total	ND		0.092	mg/Kg		05/06/25 11:52	05/07/25 20:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			05/06/25 11:52	05/07/25 20:40	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]	250		9.7	mg/Kg		05/07/25 12:36	05/08/25 11:18	1
Motor Oil Range Organics [C28-C40]	200		48	mg/Kg		05/07/25 12:36	05/08/25 11:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	121		62 - 134			05/07/25 12:36	05/08/25 11:18	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		60	mg/Kg		05/07/25 08:40	05/07/25 13:03	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-28 (0-2')

Lab Sample ID: 885-24275-10

Date Collected: 05/02/25 10:55

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 11:52	05/07/25 21:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		35 - 166			05/06/25 11:52	05/07/25 21:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/25 11:52	05/07/25 21:02	1
Ethylbenzene	ND		0.048	mg/Kg		05/06/25 11:52	05/07/25 21:02	1
Toluene	ND		0.048	mg/Kg		05/06/25 11:52	05/07/25 21:02	1
Xylenes, Total	ND		0.096	mg/Kg		05/06/25 11:52	05/07/25 21:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			05/06/25 11:52	05/07/25 21:02	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		05/07/25 12:36	05/09/25 11:49	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/07/25 12:36	05/09/25 11:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			05/07/25 12:36	05/09/25 11:49	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/07/25 08:40	05/07/25 13:13	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-29 (0-2')

Lab Sample ID: 885-24275-11

Date Collected: 05/02/25 11:00

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 11:52	05/07/25 21:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			05/06/25 11:52	05/07/25 21:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/06/25 11:52	05/07/25 21:24	1
Ethylbenzene	ND		0.047	mg/Kg		05/06/25 11:52	05/07/25 21:24	1
Toluene	ND		0.047	mg/Kg		05/06/25 11:52	05/07/25 21:24	1
Xylenes, Total	ND		0.093	mg/Kg		05/06/25 11:52	05/07/25 21:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			05/06/25 11:52	05/07/25 21:24	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		05/07/25 12:36	05/08/25 11:40	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/07/25 12:36	05/08/25 11:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	117		62 - 134			05/07/25 12:36	05/08/25 11:40	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/07/25 08:40	05/07/25 13:23	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-30 (0-2')

Lab Sample ID: 885-24275-12

Date Collected: 05/02/25 11:05

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 12:54	05/08/25 13:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			05/06/25 12:54	05/08/25 13:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/25 12:54	05/08/25 13:24	1
Ethylbenzene	ND		0.048	mg/Kg		05/06/25 12:54	05/08/25 13:24	1
Toluene	ND		0.048	mg/Kg		05/06/25 12:54	05/08/25 13:24	1
Xylenes, Total	ND		0.097	mg/Kg		05/06/25 12:54	05/08/25 13:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			05/06/25 12:54	05/08/25 13:24	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]	39		9.3	mg/Kg		05/07/25 12:36	05/09/25 12:36	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/07/25 12:36	05/09/25 12:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	120		62 - 134			05/07/25 12:36	05/09/25 12:36	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/07/25 08:40	05/07/25 13:33	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-31 (0-2')

Lab Sample ID: 885-24275-13

Date Collected: 05/02/25 11:10

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 12:54	05/08/25 14:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			05/06/25 12:54	05/08/25 14:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/06/25 12:54	05/08/25 14:29	1
Ethylbenzene	ND		0.050	mg/Kg		05/06/25 12:54	05/08/25 14:29	1
Toluene	ND		0.050	mg/Kg		05/06/25 12:54	05/08/25 14:29	1
Xylenes, Total	ND		0.10	mg/Kg		05/06/25 12:54	05/08/25 14:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			05/06/25 12:54	05/08/25 14:29	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]	12		10	mg/Kg		05/07/25 12:36	05/08/25 12:01	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/07/25 12:36	05/08/25 12:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134			05/07/25 12:36	05/08/25 12:01	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61		60	mg/Kg		05/07/25 08:40	05/07/25 13:42	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-32 (2')

Lab Sample ID: 885-24275-14

Date Collected: 05/02/25 11:15

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 12:54	05/08/25 15:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		35 - 166			05/06/25 12:54	05/08/25 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/25 12:54	05/08/25 15:34	1
Ethylbenzene	ND		0.049	mg/Kg		05/06/25 12:54	05/08/25 15:34	1
Toluene	ND		0.049	mg/Kg		05/06/25 12:54	05/08/25 15:34	1
Xylenes, Total	ND		0.098	mg/Kg		05/06/25 12:54	05/08/25 15:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		48 - 145			05/06/25 12:54	05/08/25 15:34	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]	1100		19	mg/Kg		05/07/25 12:36	05/08/25 12:12	2
Motor Oil Range Organics [C28-C40]	1100		95	mg/Kg		05/07/25 12:36	05/08/25 12:12	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	129		62 - 134			05/07/25 12:36	05/08/25 12:12	2

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		60	mg/Kg		05/07/25 08:40	05/07/25 14:12	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-33 (2')

Lab Sample ID: 885-24275-15

Date Collected: 05/02/25 11:20

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 12:54	05/08/25 15:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			05/06/25 12:54	05/08/25 15:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/06/25 12:54	05/08/25 15:56	1
Ethylbenzene	ND		0.050	mg/Kg		05/06/25 12:54	05/08/25 15:56	1
Toluene	ND		0.050	mg/Kg		05/06/25 12:54	05/08/25 15:56	1
Xylenes, Total	ND		0.099	mg/Kg		05/06/25 12:54	05/08/25 15:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			05/06/25 12:54	05/08/25 15:56	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]	230		9.9	mg/Kg		05/07/25 12:36	05/09/25 12:59	1
Motor Oil Range Organics [C28-C40]	350		50	mg/Kg		05/07/25 12:36	05/09/25 12:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	119		62 - 134			05/07/25 12:36	05/09/25 12:59	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		60	mg/Kg		05/07/25 08:40	05/07/25 14:22	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-34 (2')

Lab Sample ID: 885-24275-16

Date Collected: 05/02/25 11:25

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 12:54	05/08/25 16:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			05/06/25 12:54	05/08/25 16:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/06/25 12:54	05/08/25 16:17	1
Ethylbenzene	ND		0.046	mg/Kg		05/06/25 12:54	05/08/25 16:17	1
Toluene	ND		0.046	mg/Kg		05/06/25 12:54	05/08/25 16:17	1
Xylenes, Total	ND		0.093	mg/Kg		05/06/25 12:54	05/08/25 16:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			05/06/25 12:54	05/08/25 16:17	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]	31		9.8	mg/Kg		05/07/25 12:36	05/09/25 13:47	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/07/25 12:36	05/09/25 13:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	122		62 - 134			05/07/25 12:36	05/09/25 13:47	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		60	mg/Kg		05/07/25 08:40	05/07/25 14:32	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-35 (2')

Lab Sample ID: 885-24275-17

Date Collected: 05/02/25 11:30

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 12:54	05/08/25 16:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			05/06/25 12:54	05/08/25 16:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/06/25 12:54	05/08/25 16:39	1
Ethylbenzene	ND		0.049	mg/Kg		05/06/25 12:54	05/08/25 16:39	1
Toluene	ND		0.049	mg/Kg		05/06/25 12:54	05/08/25 16:39	1
Xylenes, Total	ND		0.098	mg/Kg		05/06/25 12:54	05/08/25 16:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			05/06/25 12:54	05/08/25 16:39	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]	110		9.6	mg/Kg		05/07/25 12:36	05/09/25 18:56	1
Motor Oil Range Organics [C28-C40]	190		48	mg/Kg		05/07/25 12:36	05/09/25 18:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	127		62 - 134			05/07/25 12:36	05/09/25 18:56	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/07/25 08:40	05/07/25 14:41	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-36 (2')

Lab Sample ID: 885-24275-18

Date Collected: 05/02/25 11:35

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 12:54	05/08/25 17:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		35 - 166			05/06/25 12:54	05/08/25 17:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/06/25 12:54	05/08/25 17:01	1
Ethylbenzene	ND		0.050	mg/Kg		05/06/25 12:54	05/08/25 17:01	1
Toluene	ND		0.050	mg/Kg		05/06/25 12:54	05/08/25 17:01	1
Xylenes, Total	ND		0.099	mg/Kg		05/06/25 12:54	05/08/25 17:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		48 - 145			05/06/25 12:54	05/08/25 17:01	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]	47		19	mg/Kg		05/07/25 12:36	05/09/25 19:19	2
Motor Oil Range Organics [C28-C40]	170		94	mg/Kg		05/07/25 12:36	05/09/25 19:19	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	117		62 - 134			05/07/25 12:36	05/09/25 19:19	2

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/07/25 08:40	05/07/25 14:51	20

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Client Sample Results

Client: Vertex
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-37 (2')
Date Collected: 05/02/25 11:40
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-19
Matrix: Solid

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		05/06/25 12:54	05/08/25 17:22		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	101		35 - 166			05/06/25 12:54	05/08/25 17:22		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		05/06/25 12:54	05/08/25 17:22		1
Ethylbenzene	ND		0.048	mg/Kg		05/06/25 12:54	05/08/25 17:22		1
Toluene	ND		0.048	mg/Kg		05/06/25 12:54	05/08/25 17:22		1
Xylenes, Total	ND		0.095	mg/Kg		05/06/25 12:54	05/08/25 17:22		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		48 - 145			05/06/25 12:54	05/08/25 17:22		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		05/07/25 12:36	05/08/25 13:07		1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/07/25 12:36	05/08/25 13:07		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	112		62 - 134			05/07/25 12:36	05/08/25 13:07		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	110		60	mg/Kg		05/07/25 08:40	05/07/25 15:01		20

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-38 (2')

Lab Sample ID: 885-24275-20

Date Collected: 05/02/25 11:45

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 12:54	05/08/25 17:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		35 - 166			05/06/25 12:54	05/08/25 17:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/25 12:54	05/08/25 17:44	1
Ethylbenzene	ND		0.048	mg/Kg		05/06/25 12:54	05/08/25 17:44	1
Toluene	ND		0.048	mg/Kg		05/06/25 12:54	05/08/25 17:44	1
Xylenes, Total	ND		0.097	mg/Kg		05/06/25 12:54	05/08/25 17:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		48 - 145			05/06/25 12:54	05/08/25 17:44	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]	1200		19	mg/Kg		05/07/25 12:36	05/13/25 14:12	2
Motor Oil Range Organics [C28-C40]	1200		93	mg/Kg		05/07/25 12:36	05/13/25 14:12	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			05/07/25 12:36	05/13/25 14:12	2

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/07/25 09:48	05/07/25 15:20	20

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Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-39 (2')

Lab Sample ID: 885-24275-21

Date Collected: 05/02/25 11:50

Matrix: Solid

Date Received: 05/06/25 07:40

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	75		4.8	mg/Kg		05/06/25 12:54	05/08/25 18:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	218	S1+	35 - 166			05/06/25 12:54	05/08/25 18:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/06/25 12:54	05/08/25 18:06	1
Ethylbenzene	0.13		0.048	mg/Kg		05/06/25 12:54	05/08/25 18:06	1
Toluene	ND		0.048	mg/Kg		05/06/25 12:54	05/08/25 18:06	1
Xylenes, Total	0.69		0.096	mg/Kg		05/06/25 12:54	05/08/25 18:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		48 - 145			05/06/25 12:54	05/08/25 18:06	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]	2600		47	mg/Kg		05/07/25 12:17	05/07/25 16:52	5
Motor Oil Range Organics [C28-C40]	2400		230	mg/Kg		05/07/25 12:17	05/07/25 16:52	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	58	S1- D	62 - 134			05/07/25 12:17	05/07/25 16:52	5

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		60	mg/Kg		05/07/25 09:48	05/07/25 15:51	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-40 (2')

Lab Sample ID: 885-24275-22

Date Collected: 05/02/25 11:55

Matrix: Solid

Date Received: 05/06/25 07:40

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	360		25	mg/Kg		05/06/25 12:54	05/08/25 18:49	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	242	S1+	35 - 166			05/06/25 12:54	05/08/25 18:49	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.12	mg/Kg		05/06/25 12:54	05/08/25 18:49	5
Ethylbenzene	1.1		0.25	mg/Kg		05/06/25 12:54	05/08/25 18:49	5
Toluene	ND		0.25	mg/Kg		05/06/25 12:54	05/08/25 18:49	5
Xylenes, Total	5.3		0.50	mg/Kg		05/06/25 12:54	05/08/25 18:49	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132		48 - 145			05/06/25 12:54	05/08/25 18:49	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4100		98	mg/Kg		05/07/25 12:17	05/09/25 05:37	10
Motor Oil Range Organics [C28-C40]	2600		490	mg/Kg		05/07/25 12:17	05/09/25 05:37	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			05/07/25 12:17	05/09/25 05:37	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	580		60	mg/Kg		05/07/25 09:48	05/07/25 16:22	20

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Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-41 (2')

Lab Sample ID: 885-24275-23

Date Collected: 05/02/25 12:00

Matrix: Solid

Date Received: 05/06/25 07:40

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	370		24	mg/Kg		05/06/25 12:54	05/08/25 19:11	5	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	273	S1+	35 - 166			05/06/25 12:54	05/08/25 19:11	5	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.12	mg/Kg		05/06/25 12:54	05/08/25 19:11	5	
Ethylbenzene	0.86		0.24	mg/Kg		05/06/25 12:54	05/08/25 19:11	5	
Toluene	ND		0.24	mg/Kg		05/06/25 12:54	05/08/25 19:11	5	
Xylenes, Total	3.2		0.48	mg/Kg		05/06/25 12:54	05/08/25 19:11	5	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	132		48 - 145			05/06/25 12:54	05/08/25 19:11	5	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	4700		95	mg/Kg		05/07/25 12:17	05/09/25 06:00	10	
Motor Oil Range Organics [C28-C40]	3300		470	mg/Kg		05/07/25 12:17	05/09/25 06:00	10	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			05/07/25 12:17	05/09/25 06:00	10	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		60	mg/Kg		05/07/25 09:48	05/07/25 16:33	20	

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-43 (2')

Lab Sample ID: 885-24275-24

Date Collected: 05/02/25 12:05

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 12:54	05/08/25 19:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		35 - 166			05/06/25 12:54	05/08/25 19:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/06/25 12:54	05/08/25 19:32	1
Ethylbenzene	ND		0.050	mg/Kg		05/06/25 12:54	05/08/25 19:32	1
Toluene	ND		0.050	mg/Kg		05/06/25 12:54	05/08/25 19:32	1
Xylenes, Total	ND		0.099	mg/Kg		05/06/25 12:54	05/08/25 19:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			05/06/25 12:54	05/08/25 19:32	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]	16		9.9	mg/Kg		05/07/25 12:17	05/09/25 08:19	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/07/25 12:17	05/09/25 08:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	120		62 - 134			05/07/25 12:17	05/09/25 08:19	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/07/25 09:48	05/07/25 16:43	20

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Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-45 (2')

Lab Sample ID: 885-24275-25

Date Collected: 05/02/25 12:10

Matrix: Solid

Date Received: 05/06/25 07:40

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	130		4.6	mg/Kg		05/06/25 12:54	05/08/25 19:54	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	235	S1+	35 - 166			05/06/25 12:54	05/08/25 19:54	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.023	mg/Kg		05/06/25 12:54	05/08/25 19:54	1	
Ethylbenzene	0.15		0.046	mg/Kg		05/06/25 12:54	05/08/25 19:54	1	
Toluene	ND		0.046	mg/Kg		05/06/25 12:54	05/08/25 19:54	1	
Xylenes, Total	1.1		0.092	mg/Kg		05/06/25 12:54	05/08/25 19:54	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	148	S1+	48 - 145			05/06/25 12:54	05/08/25 19:54	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]	4900		97	mg/Kg		05/07/25 12:17	05/09/25 06:23	10	
Motor Oil Range Organics [C28-C40]	4000		480	mg/Kg		05/07/25 12:17	05/09/25 06:23	10	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			05/07/25 12:17	05/09/25 06:23	10	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		60	mg/Kg		05/07/25 09:48	05/07/25 16:53	20	

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-46 (2')

Lab Sample ID: 885-24275-26

Date Collected: 05/02/25 12:15

Matrix: Solid

Date Received: 05/06/25 07:40

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	60		4.6	mg/Kg		05/06/25 12:54	05/08/25 20:16	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	275	S1+	35 - 166			05/06/25 12:54	05/08/25 20:16	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.023	mg/Kg		05/06/25 12:54	05/08/25 20:16	1	
Ethylbenzene	0.16		0.046	mg/Kg		05/06/25 12:54	05/08/25 20:16	1	
Toluene	ND		0.046	mg/Kg		05/06/25 12:54	05/08/25 20:16	1	
Xylenes, Total	0.84		0.091	mg/Kg		05/06/25 12:54	05/08/25 20:16	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	148	S1+	48 - 145			05/06/25 12:54	05/08/25 20:16	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]	2800		98	mg/Kg		05/07/25 12:17	05/09/25 06:46	10	
Motor Oil Range Organics [C28-C40]	2700		490	mg/Kg		05/07/25 12:17	05/09/25 06:46	10	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			05/07/25 12:17	05/09/25 06:46	10	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	160		60	mg/Kg		05/07/25 09:48	05/07/25 17:24	20	

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-48 (2')

Lab Sample ID: 885-24275-27

Date Collected: 05/02/25 12:20

Matrix: Solid

Date Received: 05/06/25 07:40

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	24		4.9	mg/Kg		05/06/25 12:54	05/08/25 20:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153		35 - 166			05/06/25 12:54	05/08/25 20:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/06/25 12:54	05/08/25 20:38	1
Ethylbenzene	ND		0.049	mg/Kg		05/06/25 12:54	05/08/25 20:38	1
Toluene	ND		0.049	mg/Kg		05/06/25 12:54	05/08/25 20:38	1
Xylenes, Total	0.12		0.099	mg/Kg		05/06/25 12:54	05/08/25 20:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142		48 - 145			05/06/25 12:54	05/08/25 20:38	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]	3000		97	mg/Kg		05/07/25 12:17	05/09/25 07:09	10
Motor Oil Range Organics [C28-C40]	2800		490	mg/Kg		05/07/25 12:17	05/09/25 07:09	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			05/07/25 12:17	05/09/25 07:09	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79		60	mg/Kg		05/07/25 09:48	05/07/25 17:35	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-49 (2')

Lab Sample ID: 885-24275-28

Date Collected: 05/02/25 12:25

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 12:54	05/08/25 21:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		35 - 166			05/06/25 12:54	05/08/25 21:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/06/25 12:54	05/08/25 21:00	1
Ethylbenzene	ND		0.047	mg/Kg		05/06/25 12:54	05/08/25 21:00	1
Toluene	ND		0.047	mg/Kg		05/06/25 12:54	05/08/25 21:00	1
Xylenes, Total	ND		0.093	mg/Kg		05/06/25 12:54	05/08/25 21:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		48 - 145			05/06/25 12:54	05/08/25 21:00	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		05/07/25 12:17	05/09/25 07:32	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/07/25 12:17	05/09/25 07:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	118		62 - 134			05/07/25 12:17	05/09/25 07:32	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/07/25 09:48	05/07/25 17:45	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-50 (2')
Date Collected: 05/02/25 12:30
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-29
Matrix: Solid

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		05/06/25 12:54	05/08/25 21:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	108		35 - 166			05/06/25 12:54	05/08/25 21:21	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.023	mg/Kg		05/06/25 12:54	05/08/25 21:21	1	
Ethylbenzene	ND		0.046	mg/Kg		05/06/25 12:54	05/08/25 21:21	1	
Toluene	ND		0.046	mg/Kg		05/06/25 12:54	05/08/25 21:21	1	
Xylenes, Total	ND		0.093	mg/Kg		05/06/25 12:54	05/08/25 21:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	101		48 - 145			05/06/25 12:54	05/08/25 21:21	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]	15		9.6	mg/Kg		05/07/25 12:17	05/09/25 07:55	1	
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/07/25 12:17	05/09/25 07:55	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	111		62 - 134			05/07/25 12:17	05/09/25 07:55	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	76		60	mg/Kg		05/07/25 09:48	05/07/25 17:55	20	

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-51 (2')

Lab Sample ID: 885-24275-30

Date Collected: 05/02/25 12:35

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 12:54	05/08/25 21:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			05/06/25 12:54	05/08/25 21:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/06/25 12:54	05/08/25 21:43	1
Ethylbenzene	ND		0.046	mg/Kg		05/06/25 12:54	05/08/25 21:43	1
Toluene	ND		0.046	mg/Kg		05/06/25 12:54	05/08/25 21:43	1
Xylenes, Total	ND		0.093	mg/Kg		05/06/25 12:54	05/08/25 21:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			05/06/25 12:54	05/08/25 21:43	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]	18		9.5	mg/Kg		05/07/25 12:17	05/07/25 20:39	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/07/25 12:17	05/07/25 20:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	113		62 - 134			05/07/25 12:17	05/07/25 20:39	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78		60	mg/Kg		05/07/25 09:48	05/07/25 18:06	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-52 (2')

Lab Sample ID: 885-24275-31

Date Collected: 05/02/25 12:40

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/06/25 12:54	05/08/25 22:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		35 - 166			05/06/25 12:54	05/08/25 22:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/06/25 12:54	05/08/25 22:05	1
Ethylbenzene	ND		0.046	mg/Kg		05/06/25 12:54	05/08/25 22:05	1
Toluene	ND		0.046	mg/Kg		05/06/25 12:54	05/08/25 22:05	1
Xylenes, Total	ND		0.092	mg/Kg		05/06/25 12:54	05/08/25 22:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			05/06/25 12:54	05/08/25 22:05	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]	550		9.7	mg/Kg		05/07/25 12:17	05/07/25 20:50	1
Motor Oil Range Organics [C28-C40]	730		48	mg/Kg		05/07/25 12:17	05/07/25 20:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	128		62 - 134			05/07/25 12:17	05/07/25 20:50	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/07/25 09:48	05/07/25 18:16	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-53 (2')

Lab Sample ID: 885-24275-32

Date Collected: 05/02/25 12:45

Matrix: Solid

Date Received: 05/06/25 07:40

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	160		4.8	mg/Kg		05/07/25 12:22	05/09/25 00:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	270	S1+	35 - 166			05/07/25 12:22	05/09/25 00:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/07/25 12:22	05/09/25 00:21	1
Ethylbenzene	0.37		0.048	mg/Kg		05/07/25 12:22	05/09/25 00:21	1
Toluene	0.064		0.048	mg/Kg		05/07/25 12:22	05/09/25 00:21	1
Xylenes, Total	2.6		0.096	mg/Kg		05/07/25 12:22	05/09/25 00:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		48 - 145			05/07/25 12:22	05/09/25 00:21	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]	3300		93	mg/Kg		05/08/25 09:39	05/08/25 22:23	10
Motor Oil Range Organics [C28-C40]	1200		460	mg/Kg		05/08/25 09:39	05/08/25 22:23	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134			05/08/25 09:39	05/08/25 22:23	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		60	mg/Kg		05/07/25 13:57	05/07/25 18:57	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-54 (2')

Lab Sample ID: 885-24275-33

Date Collected: 05/02/25 12:50

Matrix: Solid

Date Received: 05/06/25 07:40

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	240		9.4	mg/Kg		05/07/25 12:22	05/09/25 19:34	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	216	S1+	35 - 166			05/07/25 12:22	05/09/25 19:34	2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.047	mg/Kg		05/07/25 12:22	05/09/25 19:34	2
Ethylbenzene	0.31		0.094	mg/Kg		05/07/25 12:22	05/09/25 19:34	2
Toluene	ND		0.094	mg/Kg		05/07/25 12:22	05/09/25 19:34	2
Xylenes, Total	2.0		0.19	mg/Kg		05/07/25 12:22	05/09/25 19:34	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		48 - 145			05/07/25 12:22	05/09/25 19:34	2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3700		48	mg/Kg		05/08/25 09:39	05/08/25 22:34	5
Motor Oil Range Organics [C28-C40]	1500		240	mg/Kg		05/08/25 09:39	05/08/25 22:34	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134			05/08/25 09:39	05/08/25 22:34	5

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	830		60	mg/Kg		05/07/25 13:57	05/07/25 19:49	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-55 (2')

Lab Sample ID: 885-24275-34

Date Collected: 05/02/25 12:55

Matrix: Solid

Date Received: 05/06/25 07:40

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	71		9.6	mg/Kg		05/07/25 12:22	05/09/25 03:07	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	175	S1+	35 - 166			05/07/25 12:22	05/09/25 03:07	2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.048	mg/Kg		05/07/25 12:22	05/09/25 03:07	2
Ethylbenzene	ND		0.096	mg/Kg		05/07/25 12:22	05/09/25 03:07	2
Toluene	ND		0.096	mg/Kg		05/07/25 12:22	05/09/25 03:07	2
Xylenes, Total	0.35		0.19	mg/Kg		05/07/25 12:22	05/09/25 03:07	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			05/07/25 12:22	05/09/25 03:07	2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2900		97	mg/Kg		05/08/25 09:39	05/08/25 22:45	10
Motor Oil Range Organics [C28-C40]	1300		480	mg/Kg		05/08/25 09:39	05/08/25 22:45	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134			05/08/25 09:39	05/08/25 22:45	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	410		60	mg/Kg		05/07/25 13:57	05/07/25 20:20	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-56 (2')

Lab Sample ID: 885-24275-35

Date Collected: 05/02/25 13:00

Matrix: Solid

Date Received: 05/06/25 07:40

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	230		5.0	mg/Kg		05/07/25 12:22	05/09/25 03:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	435	S1+	35 - 166			05/07/25 12:22	05/09/25 03:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/07/25 12:22	05/09/25 03:31	1
Ethylbenzene	0.49		0.050	mg/Kg		05/07/25 12:22	05/09/25 03:31	1
Toluene	ND		0.050	mg/Kg		05/07/25 12:22	05/09/25 03:31	1
Xylenes, Total	2.4		0.10	mg/Kg		05/07/25 12:22	05/09/25 03:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135		48 - 145			05/07/25 12:22	05/09/25 03:31	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]	5100		97	mg/Kg		05/08/25 09:39	05/13/25 15:47	10
Motor Oil Range Organics [C28-C40]	2300		480	mg/Kg		05/08/25 09:39	05/13/25 15:47	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134			05/08/25 09:39	05/13/25 15:47	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		60	mg/Kg		05/07/25 13:57	05/07/25 20:31	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-57 (2')

Lab Sample ID: 885-24275-36

Date Collected: 05/02/25 13:05

Matrix: Solid

Date Received: 05/06/25 07:40

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	11		4.6	mg/Kg		05/07/25 12:22	05/09/25 19:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143		35 - 166			05/07/25 12:22	05/09/25 19:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/07/25 12:22	05/09/25 19:10	1
Ethylbenzene	ND		0.046	mg/Kg		05/07/25 12:22	05/09/25 19:10	1
Toluene	ND		0.046	mg/Kg		05/07/25 12:22	05/09/25 19:10	1
Xylenes, Total	ND		0.092	mg/Kg		05/07/25 12:22	05/09/25 19:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		48 - 145			05/07/25 12:22	05/09/25 19:10	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]	6600		200	mg/Kg		05/08/25 09:39	05/08/25 22:59	20
Motor Oil Range Organics [C28-C40]	3700		980	mg/Kg		05/08/25 09:39	05/08/25 22:59	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134			05/08/25 09:39	05/08/25 22:59	20

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		60	mg/Kg		05/07/25 13:57	05/07/25 20:41	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-58 (2')

Lab Sample ID: 885-24275-37

Date Collected: 05/02/25 13:10

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/07/25 12:22	05/09/25 04:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		35 - 166			05/07/25 12:22	05/09/25 04:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/07/25 12:22	05/09/25 04:18	1
Ethylbenzene	ND		0.047	mg/Kg		05/07/25 12:22	05/09/25 04:18	1
Toluene	ND		0.047	mg/Kg		05/07/25 12:22	05/09/25 04:18	1
Xylenes, Total	ND		0.094	mg/Kg		05/07/25 12:22	05/09/25 04:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			05/07/25 12:22	05/09/25 04:18	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]	840		20	mg/Kg		05/08/25 09:39	05/08/25 23:10	2
Motor Oil Range Organics [C28-C40]	720		98	mg/Kg		05/08/25 09:39	05/08/25 23:10	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134			05/08/25 09:39	05/08/25 23:10	2

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		60	mg/Kg		05/07/25 13:57	05/07/25 20:51	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-59 (2')

Lab Sample ID: 885-24275-38

Date Collected: 05/02/25 13:15

Matrix: Solid

Date Received: 05/06/25 07:40

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		05/07/25 12:22	05/09/25 04:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		35 - 166			05/07/25 12:22	05/09/25 04:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/07/25 12:22	05/09/25 04:42	1
Ethylbenzene	ND		0.046	mg/Kg		05/07/25 12:22	05/09/25 04:42	1
Toluene	ND		0.046	mg/Kg		05/07/25 12:22	05/09/25 04:42	1
Xylenes, Total	ND		0.092	mg/Kg		05/07/25 12:22	05/09/25 04:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			05/07/25 12:22	05/09/25 04:42	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		05/08/25 09:39	05/13/25 14:59	1
Motor Oil Range Organics [C28-C40]	59		49	mg/Kg		05/08/25 09:39	05/13/25 14:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			05/08/25 09:39	05/13/25 14:59	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81		60	mg/Kg		05/07/25 13:57	05/07/25 21:02	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-60 (2')

Lab Sample ID: 885-24275-39

Date Collected: 05/02/25 13:20

Matrix: Solid

Date Received: 05/06/25 07:40

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	260		5.0	mg/Kg		05/07/25 12:22	05/09/25 05:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	534	S1+	35 - 166			05/07/25 12:22	05/09/25 05:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/07/25 12:22	05/09/25 05:06	1
Ethylbenzene	1.1		0.050	mg/Kg		05/07/25 12:22	05/09/25 05:06	1
Toluene	0.23		0.050	mg/Kg		05/07/25 12:22	05/09/25 05:06	1
Xylenes, Total	8.4		0.099	mg/Kg		05/07/25 12:22	05/09/25 05:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	48 - 145			05/07/25 12:22	05/09/25 05:06	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]	4900		98	mg/Kg		05/08/25 09:39	05/13/25 14:35	10
Motor Oil Range Organics [C28-C40]	2300		490	mg/Kg		05/08/25 09:39	05/13/25 14:35	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134			05/08/25 09:39	05/13/25 14:35	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67		60	mg/Kg		05/07/25 13:57	05/07/25 21:33	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

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

Lab Sample ID: MB 885-25569/1-A

Matrix: Solid

Analysis Batch: 25650

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25569

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/06/25 11:52	05/07/25 12:21	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			05/06/25 11:52	05/07/25 12:21	1

Lab Sample ID: LCS 885-25569/2-A

Matrix: Solid

Analysis Batch: 25650

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	28.0		mg/Kg		112	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	214		35 - 166				

Lab Sample ID: MB 885-25581/1-A

Matrix: Solid

Analysis Batch: 25730

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25581

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/06/25 12:54	05/08/25 13:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			05/06/25 12:54	05/08/25 13:02	1

Lab Sample ID: LCS 885-25581/2-A

Matrix: Solid

Analysis Batch: 25730

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	29.5		mg/Kg		118	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	231		35 - 166				

Lab Sample ID: 885-24275-12 MS

Matrix: Solid

Analysis Batch: 25730

Client Sample ID: BS25-30 (0-2')

Prep Type: Total/NA

Prep Batch: 25581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		24.4	28.8		mg/Kg		118	70 - 130

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QC Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

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

Lab Sample ID: 885-24275-12 MS

Matrix: Solid

Analysis Batch: 25730

Client Sample ID: BS25-30 (0-2')

Prep Type: Total/NA

Prep Batch: 25581

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	230		35 - 166

Lab Sample ID: 885-24275-12 MSD

Matrix: Solid

Analysis Batch: 25730

Client Sample ID: BS25-30 (0-2')

Prep Type: Total/NA

Prep Batch: 25581

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.2	28.6		mg/Kg		118	70 - 130	1	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	225		35 - 166								

Lab Sample ID: MB 885-25670/1-A

Matrix: Solid

Analysis Batch: 25791

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25670

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/07/25 12:22	05/08/25 23:57	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	105		35 - 166			05/07/25 12:22	05/08/25 23:57	1

Lab Sample ID: LCS 885-25670/2-A

Matrix: Solid

Analysis Batch: 25791

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	27.3		mg/Kg		109	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
4-Bromofluorobenzene (Surr)	211		35 - 166				

Lab Sample ID: 885-24275-32 MS

Matrix: Solid

Analysis Batch: 25791

Client Sample ID: BS25-53 (2')

Prep Type: Total/NA

Prep Batch: 25670

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	160		24.0	108	4	mg/Kg		-206	70 - 130
Surrogate	MS	MS	Limits						
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	310	S1+	35 - 166						

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QC Sample Results

Client: Vertex
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

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

Lab Sample ID: 885-24275-32 MSD

Matrix: Solid

Analysis Batch: 25791

Client Sample ID: BS25-53 (2')

Prep Type: Total/NA

Prep Batch: 25670

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	160		23.7	105	4	mg/Kg		-224	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	313	S1+	35 - 166								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-25569/1-A

Matrix: Solid

Analysis Batch: 25651

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25569

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	ND		0.025	mg/Kg		05/06/25 11:52	05/07/25 12:21	1
Ethylbenzene	ND		0.050	mg/Kg		05/06/25 11:52	05/07/25 12:21	1
Toluene	ND		0.050	mg/Kg		05/06/25 11:52	05/07/25 12:21	1
Xylenes, Total	ND		0.10	mg/Kg		05/06/25 11:52	05/07/25 12:21	1
Surrogate	%Recovery	MB Qualifier	MB Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			05/06/25 11:52	05/07/25 12:21	1

Lab Sample ID: LCS 885-25569/3-A

Matrix: Solid

Analysis Batch: 25651

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25569

			Spike	LCS				%Rec			
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene			1.00	0.985		mg/Kg		98	70 - 130		
Ethylbenzene			1.00	0.988		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			2.00	2.00		mg/Kg		100	70 - 130		
o-Xylene			1.00	0.976		mg/Kg		98	70 - 130		
Toluene			1.00	0.973		mg/Kg		97	70 - 130		
			LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		48 - 145								

Lab Sample ID: MB 885-25581/1-A

Matrix: Solid

Analysis Batch: 25731

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25581

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	ND		0.025	mg/Kg		05/06/25 12:54	05/08/25 13:02	1
Ethylbenzene	ND		0.050	mg/Kg		05/06/25 12:54	05/08/25 13:02	1
Toluene	ND		0.050	mg/Kg		05/06/25 12:54	05/08/25 13:02	1
Xylenes, Total	ND		0.10	mg/Kg		05/06/25 12:54	05/08/25 13:02	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			05/06/25 12:54	05/08/25 13:02	1

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QC Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

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

Lab Sample ID: LCS 885-25581/3-A

Matrix: Solid

Analysis Batch: 25731

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.995		mg/Kg		99	70 - 130
Ethylbenzene	1.00	1.01		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	2.00	2.03		mg/Kg		102	70 - 130
o-Xylene	1.00	1.02		mg/Kg		102	70 - 130
Toluene	1.00	0.980		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		48 - 145

Lab Sample ID: 885-24275-13 MS

Matrix: Solid

Analysis Batch: 25731

Client Sample ID: BS25-31 (0-2')

Prep Type: Total/NA

Prep Batch: 25581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.999	1.01		mg/Kg		101	70 - 130
Ethylbenzene	ND		0.999	1.04		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	ND		2.00	2.07		mg/Kg		104	70 - 130
o-Xylene	ND		0.999	1.05		mg/Kg		105	70 - 130
Toluene	ND		0.999	0.993		mg/Kg		99	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		48 - 145

Lab Sample ID: 885-24275-13 MSD

Matrix: Solid

Analysis Batch: 25731

Client Sample ID: BS25-31 (0-2')

Prep Type: Total/NA

Prep Batch: 25581

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
										RPD	Limit
Benzene	ND		0.993	1.00		mg/Kg		101	70 - 130	1	20
Ethylbenzene	ND		0.993	1.04		mg/Kg		104	70 - 130	0	20
m-Xylene & p-Xylene	ND		1.99	2.06		mg/Kg		104	70 - 130	0	20
o-Xylene	ND		0.993	1.04		mg/Kg		105	70 - 130	0	20
Toluene	ND		0.993	0.991		mg/Kg		100	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		48 - 145

Lab Sample ID: MB 885-25670/1-A

Matrix: Solid

Analysis Batch: 25790

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25670

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/07/25 12:22	05/08/25 23:57	1
Ethylbenzene	ND		0.050	mg/Kg		05/07/25 12:22	05/08/25 23:57	1
Toluene	ND		0.050	mg/Kg		05/07/25 12:22	05/08/25 23:57	1
Xylenes, Total	ND		0.10	mg/Kg		05/07/25 12:22	05/08/25 23:57	1

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QC Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

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

Lab Sample ID: MB 885-25670/1-A

Matrix: Solid

Analysis Batch: 25790

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25670

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145	05/07/25 12:22	05/08/25 23:57	1

Lab Sample ID: LCS 885-25670/3-A

Matrix: Solid

Analysis Batch: 25790

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.03		mg/Kg		103	70 - 130
Ethylbenzene	1.00	1.00		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	2.00	2.14		mg/Kg		107	70 - 130
o-Xylene	1.00	1.01		mg/Kg		101	70 - 130
Toluene	1.00	1.00		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		48 - 145

Lab Sample ID: 885-24275-33 MS

Matrix: Solid

Analysis Batch: 25865

Client Sample ID: BS25-54 (2')

Prep Type: Total/NA

Prep Batch: 25670

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.936	0.913		mg/Kg		94	70 - 130
Ethylbenzene	0.31		0.936	1.28		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	2.0		1.87	4.03		mg/Kg		106	70 - 130
o-Xylene	ND		0.936	0.911		mg/Kg		97	70 - 130
Toluene	ND		0.936	0.926		mg/Kg		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		48 - 145

Lab Sample ID: 885-24275-33 MSD

Matrix: Solid

Analysis Batch: 25865

Client Sample ID: BS25-54 (2')

Prep Type: Total/NA

Prep Batch: 25670

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.942	0.873		mg/Kg		90	70 - 130	5	20
Ethylbenzene	0.31		0.942	1.24		mg/Kg		98	70 - 130	3	20
m-Xylene & p-Xylene	2.0		1.88	4.03		mg/Kg		106	70 - 130	0	20
o-Xylene	ND		0.942	0.874		mg/Kg		93	70 - 130	4	20
Toluene	ND		0.942	0.883		mg/Kg		89	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		48 - 145

Eurofins Albuquerque

QC Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

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

Lab Sample ID: MB 885-25667/1-A

Matrix: Solid

Analysis Batch: 25662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25667

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/07/25 12:17	05/07/25 16:31	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/07/25 12:17	05/07/25 16:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			05/07/25 12:17	05/07/25 16:31	1

Lab Sample ID: LCS 885-25667/2-A

Matrix: Solid

Analysis Batch: 25662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	53.9		mg/Kg		108	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	114		62 - 134				

Lab Sample ID: 885-24275-21 MS

Matrix: Solid

Analysis Batch: 25662

Client Sample ID: BS25-39 (2')

Prep Type: Total/NA

Prep Batch: 25667

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	2600		49.0	2740	4	mg/Kg		204	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	98		62 - 134						

Lab Sample ID: 885-24275-21 MSD

Matrix: Solid

Analysis Batch: 25662

Client Sample ID: BS25-39 (2')

Prep Type: Total/NA

Prep Batch: 25667

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2600		46.6	2760	4	mg/Kg		276	44 - 136	1	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	124		62 - 134								

Lab Sample ID: MB 885-25671/1-A

Matrix: Solid

Analysis Batch: 25717

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25671

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/07/25 12:36	05/08/25 09:02	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/07/25 12:36	05/08/25 09:02	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

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

Lab Sample ID: MB 885-25671/1-A

Matrix: Solid

Analysis Batch: 25717

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25671

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	125		62 - 134	05/07/25 12:36	05/08/25 09:02	1

Lab Sample ID: LCS 885-25671/2-A

Matrix: Solid

Analysis Batch: 25717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25671

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits		
			Added	Result	Qualifier							
Diesel Range Organics [C10-C28]			50.0	54.5		mg/Kg		109		51 - 148		
Surrogate	LCS		LCS									
	%Recovery	Qualifier	Limits									
Di-n-octyl phthalate (Surr)	114		62 - 134									

Lab Sample ID: 885-24275-1 MS

Matrix: Solid

Analysis Batch: 25717

Client Sample ID: BS25-19 (1')

Prep Type: Total/NA

Prep Batch: 25671

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits			
Diesel Range Organics [C10-C28]	ND		46.1	51.4		mg/Kg		111	44 - 136		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
Di-n-octyl phthalate (Surr)	123		62 - 134								

Lab Sample ID: 885-24275-1 MSD

Matrix: Solid

Analysis Batch: 25717

Client Sample ID: BS25-19 (1')

Prep Type: Total/NA

Prep Batch: 25671

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Diesel Range Organics [C10-C28]	ND		49.8	56.3		mg/Kg		113	44 - 136	9	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	126		62 - 134								

Lab Sample ID: MB 885-25724/1-A

Matrix: Solid

Analysis Batch: 25716

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25724

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/08/25 09:39	05/08/25 15:12	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/08/25 09:39	05/08/25 15:12	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
Di-n-octyl phthalate (Surr)	113		62 - 134			05/08/25 09:39	05/08/25 15:12	1

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QC Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

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

Lab Sample ID: LCS 885-25724/2-A

Matrix: Solid

Analysis Batch: 25716

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25724

Analyte	Spike Added	LCS Result	LCS	Unit	D	%Rec	%Rec	%Rec Limits
			Qualifier					
Diesel Range Organics [C10-C28]	50.0	42.9		mg/Kg		86		51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Di-n-octyl phthalate (Surr)	107		62 - 134					

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-25616/1-A

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25616

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		05/07/25 06:22	05/07/25 08:28	1

Lab Sample ID: LCS 885-25616/2-A

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.2		mg/Kg		95	90 - 110

Lab Sample ID: MB 885-25625/1-A

Matrix: Solid

Analysis Batch: 25638

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25625

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		05/07/25 08:40	05/07/25 10:12	1

Lab Sample ID: LCS 885-25625/2-A

Matrix: Solid

Analysis Batch: 25638

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.6		mg/Kg		97	90 - 110

Lab Sample ID: 885-24275-3 MS

Matrix: Solid

Analysis Batch: 25638

Client Sample ID: BS25-21 (1')

Prep Type: Total/NA

Prep Batch: 25625

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	75		29.8	105		mg/Kg		100	50 - 150

Lab Sample ID: 885-24275-3 MSD

Matrix: Solid

Analysis Batch: 25638

Client Sample ID: BS25-21 (1')

Prep Type: Total/NA

Prep Batch: 25625

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	75		30.2	104		mg/Kg		96	50 - 150	1	20

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QC Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-25639/1-A

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25639

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		05/07/25 09:48	05/07/25 13:53	1

Lab Sample ID: LCS 885-25639/2-A

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.5		mg/Kg		97	90 - 110

Lab Sample ID: 885-24275-20 MS

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: BS25-38 (2')

Prep Type: Total/NA

Prep Batch: 25639

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		29.9	66.5		mg/Kg		NC	50 - 150

Lab Sample ID: 885-24275-20 MSD

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: BS25-38 (2')

Prep Type: Total/NA

Prep Batch: 25639

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		29.9	66.9		mg/Kg		NC	50 - 150	1	20

Lab Sample ID: 885-24275-21 MS

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: BS25-39 (2')

Prep Type: Total/NA

Prep Batch: 25639

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	180		30.2	201	4	mg/Kg		80	50 - 150

Lab Sample ID: 885-24275-21 MSD

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: BS25-39 (2')

Prep Type: Total/NA

Prep Batch: 25639

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	180		30.1	212	4	mg/Kg		116	50 - 150	5	20

Lab Sample ID: MB 885-25679/1-A

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25679

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		05/07/25 13:57	05/07/25 14:25	1

Lab Sample ID: LCS 885-25679/2-A

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25679

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.5		mg/Kg		97	90 - 110

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QC Sample Results

Client: Vertex
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 885-24275-32 MS					Client Sample ID: BS25-53 (2')				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 25622					Prep Batch: 25679				
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1300		29.9	1310	4	mg/Kg		61	50 - 150

Lab Sample ID: 885-24275-33 MS					Client Sample ID: BS25-54 (2')				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 25622					Prep Batch: 25679				
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	830		30.1	857	4	mg/Kg		98	50 - 150

QC Association Summary

Client: Vertex

Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

GC VOA

Prep Batch: 25569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-1	BS25-19 (1')	Total/NA	Solid	5030C	
885-24275-2	BS25-20 (1')	Total/NA	Solid	5030C	
885-24275-3	BS25-21 (1')	Total/NA	Solid	5030C	
885-24275-4	BS25-22 (1')	Total/NA	Solid	5030C	
885-24275-5	BS25-23 (1')	Total/NA	Solid	5030C	
885-24275-6	BS25-24 (1')	Total/NA	Solid	5030C	
885-24275-7	BS25-25 (0-2')	Total/NA	Solid	5030C	
885-24275-8	BS25-26 (0-2')	Total/NA	Solid	5030C	
885-24275-9	BS25-27 (0-2')	Total/NA	Solid	5030C	
885-24275-10	BS25-28 (0-2')	Total/NA	Solid	5030C	
885-24275-11	BS25-29 (0-2')	Total/NA	Solid	5030C	
MB 885-25569/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-25569/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-25569/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 25581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-12	BS25-30 (0-2')	Total/NA	Solid	5030C	
885-24275-13	BS25-31 (0-2')	Total/NA	Solid	5030C	
885-24275-14	BS25-32 (2')	Total/NA	Solid	5030C	
885-24275-15	BS25-33 (2')	Total/NA	Solid	5030C	
885-24275-16	BS25-34 (2')	Total/NA	Solid	5030C	
885-24275-17	BS25-35 (2')	Total/NA	Solid	5030C	
885-24275-18	BS25-36 (2')	Total/NA	Solid	5030C	
885-24275-19	BS25-37 (2')	Total/NA	Solid	5030C	
885-24275-20	BS25-38 (2')	Total/NA	Solid	5030C	
885-24275-21	BS25-39 (2')	Total/NA	Solid	5030C	
885-24275-22	BS25-40 (2')	Total/NA	Solid	5030C	
885-24275-23	BS25-41 (2')	Total/NA	Solid	5030C	
885-24275-24	BS25-43 (2')	Total/NA	Solid	5030C	
885-24275-25	BS25-45 (2')	Total/NA	Solid	5030C	
885-24275-26	BS25-46 (2')	Total/NA	Solid	5030C	
885-24275-27	BS25-48 (2')	Total/NA	Solid	5030C	
885-24275-28	BS25-49 (2')	Total/NA	Solid	5030C	
885-24275-29	BS25-50 (2')	Total/NA	Solid	5030C	
885-24275-30	BS25-51 (2')	Total/NA	Solid	5030C	
885-24275-31	BS25-52 (2')	Total/NA	Solid	5030C	
MB 885-25581/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-25581/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-25581/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-24275-12 MS	BS25-30 (0-2')	Total/NA	Solid	5030C	
885-24275-12 MSD	BS25-30 (0-2')	Total/NA	Solid	5030C	
885-24275-13 MS	BS25-31 (0-2')	Total/NA	Solid	5030C	
885-24275-13 MSD	BS25-31 (0-2')	Total/NA	Solid	5030C	

Analysis Batch: 25650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-1	BS25-19 (1')	Total/NA	Solid	8015M/D	25569
885-24275-2	BS25-20 (1')	Total/NA	Solid	8015M/D	25569
885-24275-3	BS25-21 (1')	Total/NA	Solid	8015M/D	25569
885-24275-4	BS25-22 (1')	Total/NA	Solid	8015M/D	25569

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QC Association Summary

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

GC VOA (Continued)

Analysis Batch: 25650 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-5	BS25-23 (1')	Total/NA	Solid	8015M/D	25569
885-24275-6	BS25-24 (1')	Total/NA	Solid	8015M/D	25569
885-24275-7	BS25-25 (0-2')	Total/NA	Solid	8015M/D	25569
885-24275-8	BS25-26 (0-2')	Total/NA	Solid	8015M/D	25569
885-24275-9	BS25-27 (0-2')	Total/NA	Solid	8015M/D	25569
885-24275-10	BS25-28 (0-2')	Total/NA	Solid	8015M/D	25569
885-24275-11	BS25-29 (0-2')	Total/NA	Solid	8015M/D	25569
MB 885-25569/1-A	Method Blank	Total/NA	Solid	8015M/D	25569
LCS 885-25569/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25569

Analysis Batch: 25651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-1	BS25-19 (1')	Total/NA	Solid	8021B	25569
885-24275-2	BS25-20 (1')	Total/NA	Solid	8021B	25569
885-24275-3	BS25-21 (1')	Total/NA	Solid	8021B	25569
885-24275-4	BS25-22 (1')	Total/NA	Solid	8021B	25569
885-24275-5	BS25-23 (1')	Total/NA	Solid	8021B	25569
885-24275-6	BS25-24 (1')	Total/NA	Solid	8021B	25569
885-24275-7	BS25-25 (0-2')	Total/NA	Solid	8021B	25569
885-24275-8	BS25-26 (0-2')	Total/NA	Solid	8021B	25569
885-24275-9	BS25-27 (0-2')	Total/NA	Solid	8021B	25569
885-24275-10	BS25-28 (0-2')	Total/NA	Solid	8021B	25569
885-24275-11	BS25-29 (0-2')	Total/NA	Solid	8021B	25569
MB 885-25569/1-A	Method Blank	Total/NA	Solid	8021B	25569
LCS 885-25569/3-A	Lab Control Sample	Total/NA	Solid	8021B	25569

Prep Batch: 25670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-32	BS25-53 (2')	Total/NA	Solid	5030C	
885-24275-33	BS25-54 (2')	Total/NA	Solid	5030C	
885-24275-34	BS25-55 (2')	Total/NA	Solid	5030C	
885-24275-35	BS25-56 (2')	Total/NA	Solid	5030C	
885-24275-36	BS25-57 (2')	Total/NA	Solid	5030C	
885-24275-37	BS25-58 (2')	Total/NA	Solid	5030C	
885-24275-38	BS25-59 (2')	Total/NA	Solid	5030C	
885-24275-39	BS25-60 (2')	Total/NA	Solid	5030C	
MB 885-25670/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-25670/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-25670/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-24275-32 MS	BS25-53 (2')	Total/NA	Solid	5030C	
885-24275-32 MSD	BS25-53 (2')	Total/NA	Solid	5030C	
885-24275-33 MS	BS25-54 (2')	Total/NA	Solid	5030C	
885-24275-33 MSD	BS25-54 (2')	Total/NA	Solid	5030C	

Analysis Batch: 25730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-12	BS25-30 (0-2')	Total/NA	Solid	8015M/D	25581
885-24275-13	BS25-31 (0-2')	Total/NA	Solid	8015M/D	25581
885-24275-14	BS25-32 (2')	Total/NA	Solid	8015M/D	25581
885-24275-15	BS25-33 (2')	Total/NA	Solid	8015M/D	25581
885-24275-16	BS25-34 (2')	Total/NA	Solid	8015M/D	25581

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QC Association Summary

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

GC VOA (Continued)

Analysis Batch: 25730 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-17	BS25-35 (2')	Total/NA	Solid	8015M/D	25581
885-24275-18	BS25-36 (2')	Total/NA	Solid	8015M/D	25581
885-24275-19	BS25-37 (2')	Total/NA	Solid	8015M/D	25581
885-24275-20	BS25-38 (2')	Total/NA	Solid	8015M/D	25581
885-24275-21	BS25-39 (2')	Total/NA	Solid	8015M/D	25581
885-24275-22	BS25-40 (2')	Total/NA	Solid	8015M/D	25581
885-24275-23	BS25-41 (2')	Total/NA	Solid	8015M/D	25581
885-24275-24	BS25-43 (2')	Total/NA	Solid	8015M/D	25581
885-24275-25	BS25-45 (2')	Total/NA	Solid	8015M/D	25581
885-24275-26	BS25-46 (2')	Total/NA	Solid	8015M/D	25581
885-24275-27	BS25-48 (2')	Total/NA	Solid	8015M/D	25581
885-24275-28	BS25-49 (2')	Total/NA	Solid	8015M/D	25581
885-24275-29	BS25-50 (2')	Total/NA	Solid	8015M/D	25581
885-24275-30	BS25-51 (2')	Total/NA	Solid	8015M/D	25581
885-24275-31	BS25-52 (2')	Total/NA	Solid	8015M/D	25581
MB 885-25581/1-A	Method Blank	Total/NA	Solid	8015M/D	25581
LCS 885-25581/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25581
885-24275-12 MS	BS25-30 (0-2')	Total/NA	Solid	8015M/D	25581
885-24275-12 MSD	BS25-30 (0-2')	Total/NA	Solid	8015M/D	25581

Analysis Batch: 25731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-12	BS25-30 (0-2')	Total/NA	Solid	8021B	25581
885-24275-13	BS25-31 (0-2')	Total/NA	Solid	8021B	25581
885-24275-14	BS25-32 (2')	Total/NA	Solid	8021B	25581
885-24275-15	BS25-33 (2')	Total/NA	Solid	8021B	25581
885-24275-16	BS25-34 (2')	Total/NA	Solid	8021B	25581
885-24275-17	BS25-35 (2')	Total/NA	Solid	8021B	25581
885-24275-18	BS25-36 (2')	Total/NA	Solid	8021B	25581
885-24275-19	BS25-37 (2')	Total/NA	Solid	8021B	25581
885-24275-20	BS25-38 (2')	Total/NA	Solid	8021B	25581
885-24275-21	BS25-39 (2')	Total/NA	Solid	8021B	25581
885-24275-22	BS25-40 (2')	Total/NA	Solid	8021B	25581
885-24275-23	BS25-41 (2')	Total/NA	Solid	8021B	25581
885-24275-24	BS25-43 (2')	Total/NA	Solid	8021B	25581
885-24275-25	BS25-45 (2')	Total/NA	Solid	8021B	25581
885-24275-26	BS25-46 (2')	Total/NA	Solid	8021B	25581
885-24275-27	BS25-48 (2')	Total/NA	Solid	8021B	25581
885-24275-28	BS25-49 (2')	Total/NA	Solid	8021B	25581
885-24275-29	BS25-50 (2')	Total/NA	Solid	8021B	25581
885-24275-30	BS25-51 (2')	Total/NA	Solid	8021B	25581
885-24275-31	BS25-52 (2')	Total/NA	Solid	8021B	25581
MB 885-25581/1-A	Method Blank	Total/NA	Solid	8021B	25581
LCS 885-25581/3-A	Lab Control Sample	Total/NA	Solid	8021B	25581
885-24275-13 MS	BS25-31 (0-2')	Total/NA	Solid	8021B	25581
885-24275-13 MSD	BS25-31 (0-2')	Total/NA	Solid	8021B	25581

Analysis Batch: 25790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-32	BS25-53 (2')	Total/NA	Solid	8021B	25670
885-24275-34	BS25-55 (2')	Total/NA	Solid	8021B	25670

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QC Association Summary

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

GC VOA (Continued)

Analysis Batch: 25790 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-35	BS25-56 (2')	Total/NA	Solid	8021B	25670
885-24275-37	BS25-58 (2')	Total/NA	Solid	8021B	25670
885-24275-38	BS25-59 (2')	Total/NA	Solid	8021B	25670
885-24275-39	BS25-60 (2')	Total/NA	Solid	8021B	25670
MB 885-25670/1-A	Method Blank	Total/NA	Solid	8021B	25670
LCS 885-25670/3-A	Lab Control Sample	Total/NA	Solid	8021B	25670

Analysis Batch: 25791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-32	BS25-53 (2')	Total/NA	Solid	8015M/D	25670
885-24275-34	BS25-55 (2')	Total/NA	Solid	8015M/D	25670
885-24275-35	BS25-56 (2')	Total/NA	Solid	8015M/D	25670
885-24275-37	BS25-58 (2')	Total/NA	Solid	8015M/D	25670
885-24275-38	BS25-59 (2')	Total/NA	Solid	8015M/D	25670
885-24275-39	BS25-60 (2')	Total/NA	Solid	8015M/D	25670
MB 885-25670/1-A	Method Blank	Total/NA	Solid	8015M/D	25670
LCS 885-25670/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25670
885-24275-32 MS	BS25-53 (2')	Total/NA	Solid	8015M/D	25670
885-24275-32 MSD	BS25-53 (2')	Total/NA	Solid	8015M/D	25670

Analysis Batch: 25865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-33	BS25-54 (2')	Total/NA	Solid	8021B	25670
885-24275-36	BS25-57 (2')	Total/NA	Solid	8021B	25670
885-24275-33 MS	BS25-54 (2')	Total/NA	Solid	8021B	25670
885-24275-33 MSD	BS25-54 (2')	Total/NA	Solid	8021B	25670

Analysis Batch: 25866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-33	BS25-54 (2')	Total/NA	Solid	8015M/D	25670
885-24275-36	BS25-57 (2')	Total/NA	Solid	8015M/D	25670

GC Semi VOA

Analysis Batch: 25662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-21	BS25-39 (2')	Total/NA	Solid	8015M/D	25667
885-24275-30	BS25-51 (2')	Total/NA	Solid	8015M/D	25667
885-24275-31	BS25-52 (2')	Total/NA	Solid	8015M/D	25667
MB 885-25667/1-A	Method Blank	Total/NA	Solid	8015M/D	25667
LCS 885-25667/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25667
885-24275-21 MS	BS25-39 (2')	Total/NA	Solid	8015M/D	25667
885-24275-21 MSD	BS25-39 (2')	Total/NA	Solid	8015M/D	25667

Prep Batch: 25667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-21	BS25-39 (2')	Total/NA	Solid	SHAKE	
885-24275-22	BS25-40 (2')	Total/NA	Solid	SHAKE	
885-24275-23	BS25-41 (2')	Total/NA	Solid	SHAKE	
885-24275-24	BS25-43 (2')	Total/NA	Solid	SHAKE	
885-24275-25	BS25-45 (2')	Total/NA	Solid	SHAKE	

Eurofins Albuquerque

QC Association Summary

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

GC Semi VOA (Continued)

Prep Batch: 25667 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-26	BS25-46 (2')	Total/NA	Solid	SHAKE	
885-24275-27	BS25-48 (2')	Total/NA	Solid	SHAKE	
885-24275-28	BS25-49 (2')	Total/NA	Solid	SHAKE	
885-24275-29	BS25-50 (2')	Total/NA	Solid	SHAKE	
885-24275-30	BS25-51 (2')	Total/NA	Solid	SHAKE	
885-24275-31	BS25-52 (2')	Total/NA	Solid	SHAKE	
MB 885-25667/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-25667/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-24275-21 MS	BS25-39 (2')	Total/NA	Solid	SHAKE	
885-24275-21 MSD	BS25-39 (2')	Total/NA	Solid	SHAKE	

Prep Batch: 25671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-1	BS25-19 (1')	Total/NA	Solid	SHAKE	
885-24275-2	BS25-20 (1')	Total/NA	Solid	SHAKE	
885-24275-3	BS25-21 (1')	Total/NA	Solid	SHAKE	
885-24275-4	BS25-22 (1')	Total/NA	Solid	SHAKE	
885-24275-5	BS25-23 (1')	Total/NA	Solid	SHAKE	
885-24275-6	BS25-24 (1')	Total/NA	Solid	SHAKE	
885-24275-7	BS25-25 (0-2')	Total/NA	Solid	SHAKE	
885-24275-8	BS25-26 (0-2')	Total/NA	Solid	SHAKE	
885-24275-9	BS25-27 (0-2')	Total/NA	Solid	SHAKE	
885-24275-10	BS25-28 (0-2')	Total/NA	Solid	SHAKE	
885-24275-11	BS25-29 (0-2')	Total/NA	Solid	SHAKE	
885-24275-12	BS25-30 (0-2')	Total/NA	Solid	SHAKE	
885-24275-13	BS25-31 (0-2')	Total/NA	Solid	SHAKE	
885-24275-14	BS25-32 (2')	Total/NA	Solid	SHAKE	
885-24275-15	BS25-33 (2')	Total/NA	Solid	SHAKE	
885-24275-16	BS25-34 (2')	Total/NA	Solid	SHAKE	
885-24275-17	BS25-35 (2')	Total/NA	Solid	SHAKE	
885-24275-18	BS25-36 (2')	Total/NA	Solid	SHAKE	
885-24275-19	BS25-37 (2')	Total/NA	Solid	SHAKE	
885-24275-20	BS25-38 (2')	Total/NA	Solid	SHAKE	
MB 885-25671/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-25671/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-24275-1 MS	BS25-19 (1')	Total/NA	Solid	SHAKE	
885-24275-1 MSD	BS25-19 (1')	Total/NA	Solid	SHAKE	

Analysis Batch: 25716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-4	BS25-22 (1')	Total/NA	Solid	8015M/D	25671
885-24275-5	BS25-23 (1')	Total/NA	Solid	8015M/D	25671
885-24275-6	BS25-24 (1')	Total/NA	Solid	8015M/D	25671
885-24275-7	BS25-25 (0-2')	Total/NA	Solid	8015M/D	25671
885-24275-8	BS25-26 (0-2')	Total/NA	Solid	8015M/D	25671
885-24275-10	BS25-28 (0-2')	Total/NA	Solid	8015M/D	25671
885-24275-12	BS25-30 (0-2')	Total/NA	Solid	8015M/D	25671
885-24275-15	BS25-33 (2')	Total/NA	Solid	8015M/D	25671
885-24275-16	BS25-34 (2')	Total/NA	Solid	8015M/D	25671
885-24275-17	BS25-35 (2')	Total/NA	Solid	8015M/D	25671
885-24275-18	BS25-36 (2')	Total/NA	Solid	8015M/D	25671

Eurofins Albuquerque

QC Association Summary

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

GC Semi VOA (Continued)

Analysis Batch: 25716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-22	BS25-40 (2')	Total/NA	Solid	8015M/D	25667
885-24275-23	BS25-41 (2')	Total/NA	Solid	8015M/D	25667
885-24275-24	BS25-43 (2')	Total/NA	Solid	8015M/D	25667
885-24275-25	BS25-45 (2')	Total/NA	Solid	8015M/D	25667
885-24275-26	BS25-46 (2')	Total/NA	Solid	8015M/D	25667
885-24275-27	BS25-48 (2')	Total/NA	Solid	8015M/D	25667
885-24275-28	BS25-49 (2')	Total/NA	Solid	8015M/D	25667
885-24275-29	BS25-50 (2')	Total/NA	Solid	8015M/D	25667
MB 885-25724/1-A	Method Blank	Total/NA	Solid	8015M/D	25724
LCS 885-25724/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25724

Analysis Batch: 25717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-1	BS25-19 (1')	Total/NA	Solid	8015M/D	25671
885-24275-2	BS25-20 (1')	Total/NA	Solid	8015M/D	25671
885-24275-3	BS25-21 (1')	Total/NA	Solid	8015M/D	25671
885-24275-9	BS25-27 (0-2')	Total/NA	Solid	8015M/D	25671
885-24275-11	BS25-29 (0-2')	Total/NA	Solid	8015M/D	25671
885-24275-13	BS25-31 (0-2')	Total/NA	Solid	8015M/D	25671
885-24275-14	BS25-32 (2')	Total/NA	Solid	8015M/D	25671
885-24275-19	BS25-37 (2')	Total/NA	Solid	8015M/D	25671
885-24275-32	BS25-53 (2')	Total/NA	Solid	8015M/D	25724
885-24275-33	BS25-54 (2')	Total/NA	Solid	8015M/D	25724
885-24275-34	BS25-55 (2')	Total/NA	Solid	8015M/D	25724
885-24275-36	BS25-57 (2')	Total/NA	Solid	8015M/D	25724
885-24275-37	BS25-58 (2')	Total/NA	Solid	8015M/D	25724
MB 885-25671/1-A	Method Blank	Total/NA	Solid	8015M/D	25671
LCS 885-25671/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25671
885-24275-1 MS	BS25-19 (1')	Total/NA	Solid	8015M/D	25671
885-24275-1 MSD	BS25-19 (1')	Total/NA	Solid	8015M/D	25671

Prep Batch: 25724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-32	BS25-53 (2')	Total/NA	Solid	SHAKE	
885-24275-33	BS25-54 (2')	Total/NA	Solid	SHAKE	
885-24275-34	BS25-55 (2')	Total/NA	Solid	SHAKE	
885-24275-35	BS25-56 (2')	Total/NA	Solid	SHAKE	
885-24275-36	BS25-57 (2')	Total/NA	Solid	SHAKE	
885-24275-37	BS25-58 (2')	Total/NA	Solid	SHAKE	
885-24275-38	BS25-59 (2')	Total/NA	Solid	SHAKE	
885-24275-39	BS25-60 (2')	Total/NA	Solid	SHAKE	
MB 885-25724/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-25724/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 25990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-20	BS25-38 (2')	Total/NA	Solid	8015M/D	25671
885-24275-35	BS25-56 (2')	Total/NA	Solid	8015M/D	25724
885-24275-38	BS25-59 (2')	Total/NA	Solid	8015M/D	25724
885-24275-39	BS25-60 (2')	Total/NA	Solid	8015M/D	25724

Eurofins Albuquerque

QC Association Summary

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

HPLC/IC

Prep Batch: 25616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-1	BS25-19 (1')	Total/NA	Solid	300_Prep	
MB 885-25616/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-25616/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 25622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-1	BS25-19 (1')	Total/NA	Solid	300.0	25616
885-24275-20	BS25-38 (2')	Total/NA	Solid	300.0	25639
885-24275-21	BS25-39 (2')	Total/NA	Solid	300.0	25639
885-24275-22	BS25-40 (2')	Total/NA	Solid	300.0	25639
885-24275-23	BS25-41 (2')	Total/NA	Solid	300.0	25639
885-24275-24	BS25-43 (2')	Total/NA	Solid	300.0	25639
885-24275-25	BS25-45 (2')	Total/NA	Solid	300.0	25639
885-24275-26	BS25-46 (2')	Total/NA	Solid	300.0	25639
885-24275-27	BS25-48 (2')	Total/NA	Solid	300.0	25639
885-24275-28	BS25-49 (2')	Total/NA	Solid	300.0	25639
885-24275-29	BS25-50 (2')	Total/NA	Solid	300.0	25639
885-24275-30	BS25-51 (2')	Total/NA	Solid	300.0	25639
885-24275-31	BS25-52 (2')	Total/NA	Solid	300.0	25639
885-24275-32	BS25-53 (2')	Total/NA	Solid	300.0	25679
885-24275-33	BS25-54 (2')	Total/NA	Solid	300.0	25679
885-24275-34	BS25-55 (2')	Total/NA	Solid	300.0	25679
885-24275-35	BS25-56 (2')	Total/NA	Solid	300.0	25679
885-24275-36	BS25-57 (2')	Total/NA	Solid	300.0	25679
885-24275-37	BS25-58 (2')	Total/NA	Solid	300.0	25679
885-24275-38	BS25-59 (2')	Total/NA	Solid	300.0	25679
885-24275-39	BS25-60 (2')	Total/NA	Solid	300.0	25679
MB 885-25616/1-A	Method Blank	Total/NA	Solid	300.0	25616
MB 885-25639/1-A	Method Blank	Total/NA	Solid	300.0	25639
MB 885-25679/1-A	Method Blank	Total/NA	Solid	300.0	25679
LCS 885-25616/2-A	Lab Control Sample	Total/NA	Solid	300.0	25616
LCS 885-25639/2-A	Lab Control Sample	Total/NA	Solid	300.0	25639
LCS 885-25679/2-A	Lab Control Sample	Total/NA	Solid	300.0	25679
885-24275-20 MS	BS25-38 (2')	Total/NA	Solid	300.0	25639
885-24275-20 MSD	BS25-38 (2')	Total/NA	Solid	300.0	25639
885-24275-21 MS	BS25-39 (2')	Total/NA	Solid	300.0	25639
885-24275-21 MSD	BS25-39 (2')	Total/NA	Solid	300.0	25639
885-24275-32 MS	BS25-53 (2')	Total/NA	Solid	300.0	25679
885-24275-33 MS	BS25-54 (2')	Total/NA	Solid	300.0	25679

Prep Batch: 25625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-2	BS25-20 (1')	Total/NA	Solid	300_Prep	
885-24275-3	BS25-21 (1')	Total/NA	Solid	300_Prep	
885-24275-4	BS25-22 (1')	Total/NA	Solid	300_Prep	
885-24275-5	BS25-23 (1')	Total/NA	Solid	300_Prep	
885-24275-6	BS25-24 (1')	Total/NA	Solid	300_Prep	
885-24275-7	BS25-25 (0-2')	Total/NA	Solid	300_Prep	
885-24275-8	BS25-26 (0-2')	Total/NA	Solid	300_Prep	
885-24275-9	BS25-27 (0-2')	Total/NA	Solid	300_Prep	
885-24275-10	BS25-28 (0-2')	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

QC Association Summary

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

HPLC/IC (Continued)

Prep Batch: 25625 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-11	BS25-29 (0-2')	Total/NA	Solid	300_Prep	
885-24275-12	BS25-30 (0-2')	Total/NA	Solid	300_Prep	
885-24275-13	BS25-31 (0-2')	Total/NA	Solid	300_Prep	
885-24275-14	BS25-32 (2')	Total/NA	Solid	300_Prep	
885-24275-15	BS25-33 (2')	Total/NA	Solid	300_Prep	
885-24275-16	BS25-34 (2')	Total/NA	Solid	300_Prep	
885-24275-17	BS25-35 (2')	Total/NA	Solid	300_Prep	
885-24275-18	BS25-36 (2')	Total/NA	Solid	300_Prep	
885-24275-19	BS25-37 (2')	Total/NA	Solid	300_Prep	
MB 885-25625/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-25625/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-24275-3 MS	BS25-21 (1')	Total/NA	Solid	300_Prep	
885-24275-3 MSD	BS25-21 (1')	Total/NA	Solid	300_Prep	

Analysis Batch: 25638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-2	BS25-20 (1')	Total/NA	Solid	300.0	25625
885-24275-3	BS25-21 (1')	Total/NA	Solid	300.0	25625
885-24275-4	BS25-22 (1')	Total/NA	Solid	300.0	25625
885-24275-5	BS25-23 (1')	Total/NA	Solid	300.0	25625
885-24275-7	BS25-25 (0-2')	Total/NA	Solid	300.0	25625
885-24275-8	BS25-26 (0-2')	Total/NA	Solid	300.0	25625
885-24275-9	BS25-27 (0-2')	Total/NA	Solid	300.0	25625
885-24275-10	BS25-28 (0-2')	Total/NA	Solid	300.0	25625
885-24275-11	BS25-29 (0-2')	Total/NA	Solid	300.0	25625
885-24275-12	BS25-30 (0-2')	Total/NA	Solid	300.0	25625
885-24275-13	BS25-31 (0-2')	Total/NA	Solid	300.0	25625
885-24275-14	BS25-32 (2')	Total/NA	Solid	300.0	25625
885-24275-15	BS25-33 (2')	Total/NA	Solid	300.0	25625
885-24275-16	BS25-34 (2')	Total/NA	Solid	300.0	25625
885-24275-17	BS25-35 (2')	Total/NA	Solid	300.0	25625
885-24275-18	BS25-36 (2')	Total/NA	Solid	300.0	25625
885-24275-19	BS25-37 (2')	Total/NA	Solid	300.0	25625
MB 885-25625/1-A	Method Blank	Total/NA	Solid	300.0	25625
LCS 885-25625/2-A	Lab Control Sample	Total/NA	Solid	300.0	25625
885-24275-3 MS	BS25-21 (1')	Total/NA	Solid	300.0	25625
885-24275-3 MSD	BS25-21 (1')	Total/NA	Solid	300.0	25625

Prep Batch: 25639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-20	BS25-38 (2')	Total/NA	Solid	300_Prep	
885-24275-21	BS25-39 (2')	Total/NA	Solid	300_Prep	
885-24275-22	BS25-40 (2')	Total/NA	Solid	300_Prep	
885-24275-23	BS25-41 (2')	Total/NA	Solid	300_Prep	
885-24275-24	BS25-43 (2')	Total/NA	Solid	300_Prep	
885-24275-25	BS25-45 (2')	Total/NA	Solid	300_Prep	
885-24275-26	BS25-46 (2')	Total/NA	Solid	300_Prep	
885-24275-27	BS25-48 (2')	Total/NA	Solid	300_Prep	
885-24275-28	BS25-49 (2')	Total/NA	Solid	300_Prep	
885-24275-29	BS25-50 (2')	Total/NA	Solid	300_Prep	
885-24275-30	BS25-51 (2')	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

QC Association Summary

Client: Vertex

Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

HPLC/IC (Continued)

Prep Batch: 25639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-31	BS25-52 (2')	Total/NA	Solid	300_Prep	
MB 885-25639/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-25639/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-24275-20 MS	BS25-38 (2')	Total/NA	Solid	300_Prep	
885-24275-20 MSD	BS25-38 (2')	Total/NA	Solid	300_Prep	
885-24275-21 MS	BS25-39 (2')	Total/NA	Solid	300_Prep	
885-24275-21 MSD	BS25-39 (2')	Total/NA	Solid	300_Prep	

Prep Batch: 25679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-32	BS25-53 (2')	Total/NA	Solid	300_Prep	
885-24275-33	BS25-54 (2')	Total/NA	Solid	300_Prep	
885-24275-34	BS25-55 (2')	Total/NA	Solid	300_Prep	
885-24275-35	BS25-56 (2')	Total/NA	Solid	300_Prep	
885-24275-36	BS25-57 (2')	Total/NA	Solid	300_Prep	
885-24275-37	BS25-58 (2')	Total/NA	Solid	300_Prep	
885-24275-38	BS25-59 (2')	Total/NA	Solid	300_Prep	
885-24275-39	BS25-60 (2')	Total/NA	Solid	300_Prep	
MB 885-25679/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-25679/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-24275-32 MS	BS25-53 (2')	Total/NA	Solid	300_Prep	
885-24275-33 MS	BS25-54 (2')	Total/NA	Solid	300_Prep	

Analysis Batch: 25799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24275-6	BS25-24 (1')	Total/NA	Solid	300.0	25625

Lab Chronicle

Client: Vertex

Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-19 (1')

Lab Sample ID: 885-24275-1

Date Collected: 05/02/25 10:10

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8015M/D		1	25650	AT	EET ALB	05/07/25 17:25
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8021B		1	25651	AT	EET ALB	05/07/25 17:25
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		1	25717	EM	EET ALB	05/08/25 09:22
Total/NA	Prep	300_Prep			25616	JT	EET ALB	05/07/25 06:22
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 13:43

Client Sample ID: BS25-20 (1')

Lab Sample ID: 885-24275-2

Date Collected: 05/02/25 10:15

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8015M/D		1	25650	AT	EET ALB	05/07/25 18:08
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8021B		1	25651	AT	EET ALB	05/07/25 18:08
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		1	25717	EM	EET ALB	05/08/25 09:54
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 10:55

Client Sample ID: BS25-21 (1')

Lab Sample ID: 885-24275-3

Date Collected: 05/02/25 10:20

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8015M/D		1	25650	AT	EET ALB	05/07/25 18:30
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8021B		1	25651	AT	EET ALB	05/07/25 18:30
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		5	25717	EM	EET ALB	05/08/25 10:04
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 11:25

Client Sample ID: BS25-22 (1')

Lab Sample ID: 885-24275-4

Date Collected: 05/02/25 10:25

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8015M/D		1	25650	AT	EET ALB	05/07/25 18:51

Eurofins Albuquerque

Lab Chronicle

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-22 (1')

Lab Sample ID: 885-24275-4

Date Collected: 05/02/25 10:25

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8021B		1	25651	AT	EET ALB	05/07/25 18:51
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		1	25716	MI	EET ALB	05/09/25 09:28
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 12:14

Client Sample ID: BS25-23 (1')

Lab Sample ID: 885-24275-5

Date Collected: 05/02/25 10:30

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8015M/D		1	25650	AT	EET ALB	05/07/25 19:13
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8021B		1	25651	AT	EET ALB	05/07/25 19:13
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		1	25716	MI	EET ALB	05/09/25 09:52
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 12:24

Client Sample ID: BS25-24 (1')

Lab Sample ID: 885-24275-6

Date Collected: 05/02/25 10:35

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8015M/D		1	25650	AT	EET ALB	05/07/25 19:35
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8021B		1	25651	AT	EET ALB	05/07/25 19:35
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		20	25716	MI	EET ALB	05/09/25 10:15
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		50	25799	RC	EET ALB	05/09/25 10:40

Client Sample ID: BS25-25 (0-2')

Lab Sample ID: 885-24275-7

Date Collected: 05/02/25 10:40

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8015M/D		1	25650	AT	EET ALB	05/07/25 19:56
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8021B		1	25651	AT	EET ALB	05/07/25 19:56

Lab Chronicle

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-25 (0-2')

Lab Sample ID: 885-24275-7

Date Collected: 05/02/25 10:40

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		1	25716	MI	EET ALB	05/09/25 11:02
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 12:43

Client Sample ID: BS25-26 (0-2')

Lab Sample ID: 885-24275-8

Date Collected: 05/02/25 10:45

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8015M/D		1	25650	AT	EET ALB	05/07/25 20:18
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8021B		1	25651	AT	EET ALB	05/07/25 20:18
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		1	25716	MI	EET ALB	05/09/25 11:25
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 12:53

Client Sample ID: BS25-27 (0-2')

Lab Sample ID: 885-24275-9

Date Collected: 05/02/25 10:50

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8015M/D		1	25650	AT	EET ALB	05/07/25 20:40
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8021B		1	25651	AT	EET ALB	05/07/25 20:40
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		1	25717	EM	EET ALB	05/08/25 11:18
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 13:03

Client Sample ID: BS25-28 (0-2')

Lab Sample ID: 885-24275-10

Date Collected: 05/02/25 10:55

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8015M/D		1	25650	AT	EET ALB	05/07/25 21:02
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8021B		1	25651	AT	EET ALB	05/07/25 21:02
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		1	25716	MI	EET ALB	05/09/25 11:49

Lab Chronicle

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-28 (0-2')

Lab Sample ID: 885-24275-10

Date Collected: 05/02/25 10:55

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 13:13

Client Sample ID: BS25-29 (0-2')

Lab Sample ID: 885-24275-11

Date Collected: 05/02/25 11:00

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8015M/D		1	25650	AT	EET ALB	05/07/25 21:24
Total/NA	Prep	5030C			25569	AT	EET ALB	05/06/25 11:52
Total/NA	Analysis	8021B		1	25651	AT	EET ALB	05/07/25 21:24
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		1	25717	EM	EET ALB	05/08/25 11:40
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 13:23

Client Sample ID: BS25-30 (0-2')

Lab Sample ID: 885-24275-12

Date Collected: 05/02/25 11:05

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 13:24
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 13:24
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		1	25716	MI	EET ALB	05/09/25 12:36
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 13:33

Client Sample ID: BS25-31 (0-2')

Lab Sample ID: 885-24275-13

Date Collected: 05/02/25 11:10

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 14:29
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 14:29
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		1	25717	EM	EET ALB	05/08/25 12:01
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 13:42

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Lab Chronicle

Client: Vertex

Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-32 (2')

Lab Sample ID: 885-24275-14

Date Collected: 05/02/25 11:15

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 15:34
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 15:34
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		2	25717	EM	EET ALB	05/08/25 12:12
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 14:12

Client Sample ID: BS25-33 (2')

Lab Sample ID: 885-24275-15

Date Collected: 05/02/25 11:20

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 15:56
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 15:56
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		1	25716	MI	EET ALB	05/09/25 12:59
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 14:22

Client Sample ID: BS25-34 (2')

Lab Sample ID: 885-24275-16

Date Collected: 05/02/25 11:25

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 16:17
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 16:17
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		1	25716	MI	EET ALB	05/09/25 13:47
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 14:32

Client Sample ID: BS25-35 (2')

Lab Sample ID: 885-24275-17

Date Collected: 05/02/25 11:30

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 16:39

Lab Chronicle

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-35 (2')

Lab Sample ID: 885-24275-17

Date Collected: 05/02/25 11:30

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 16:39
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		1	25716	MI	EET ALB	05/09/25 18:56
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 14:41

Client Sample ID: BS25-36 (2')

Lab Sample ID: 885-24275-18

Date Collected: 05/02/25 11:35

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 17:01
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 17:01
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		2	25716	MI	EET ALB	05/09/25 19:19
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 14:51

Client Sample ID: BS25-37 (2')

Lab Sample ID: 885-24275-19

Date Collected: 05/02/25 11:40

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 17:22
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 17:22
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		1	25717	EM	EET ALB	05/08/25 13:07
Total/NA	Prep	300_Prep			25625	RC	EET ALB	05/07/25 08:40
Total/NA	Analysis	300.0		20	25638	RC	EET ALB	05/07/25 15:01

Client Sample ID: BS25-38 (2')

Lab Sample ID: 885-24275-20

Date Collected: 05/02/25 11:45

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 17:44
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 17:44

Lab Chronicle

Client: Vertex

Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-38 (2')

Date Collected: 05/02/25 11:45

Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			25671	MI	EET ALB	05/07/25 12:36
Total/NA	Analysis	8015M/D		2	25990	MI	EET ALB	05/13/25 14:12
Total/NA	Prep	300_Prep			25639	RC	EET ALB	05/07/25 09:48
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 15:20

Client Sample ID: BS25-39 (2')

Date Collected: 05/02/25 11:50

Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 18:06
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 18:06
Total/NA	Prep	SHAKE			25667	MI	EET ALB	05/07/25 12:17
Total/NA	Analysis	8015M/D		5	25662	EM	EET ALB	05/07/25 16:52
Total/NA	Prep	300_Prep			25639	RC	EET ALB	05/07/25 09:48
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 15:51

Client Sample ID: BS25-40 (2')

Date Collected: 05/02/25 11:55

Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		5	25730	AT	EET ALB	05/08/25 18:49
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		5	25731	AT	EET ALB	05/08/25 18:49
Total/NA	Prep	SHAKE			25667	MI	EET ALB	05/07/25 12:17
Total/NA	Analysis	8015M/D		10	25716	MI	EET ALB	05/09/25 05:37
Total/NA	Prep	300_Prep			25639	RC	EET ALB	05/07/25 09:48
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 16:22

Client Sample ID: BS25-41 (2')

Date Collected: 05/02/25 12:00

Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		5	25730	AT	EET ALB	05/08/25 19:11
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		5	25731	AT	EET ALB	05/08/25 19:11
Total/NA	Prep	SHAKE			25667	MI	EET ALB	05/07/25 12:17
Total/NA	Analysis	8015M/D		10	25716	MI	EET ALB	05/09/25 06:00

Lab Chronicle

Client: Vertex

Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-41 (2')

Lab Sample ID: 885-24275-23

Date Collected: 05/02/25 12:00

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			25639	RC	EET ALB	05/07/25 09:48
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 16:33

Client Sample ID: BS25-43 (2')

Lab Sample ID: 885-24275-24

Date Collected: 05/02/25 12:05

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 19:32
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 19:32
Total/NA	Prep	SHAKE			25667	MI	EET ALB	05/07/25 12:17
Total/NA	Analysis	8015M/D		1	25716	MI	EET ALB	05/09/25 08:19
Total/NA	Prep	300_Prep			25639	RC	EET ALB	05/07/25 09:48
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 16:43

Client Sample ID: BS25-45 (2')

Lab Sample ID: 885-24275-25

Date Collected: 05/02/25 12:10

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 19:54
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 19:54
Total/NA	Prep	SHAKE			25667	MI	EET ALB	05/07/25 12:17
Total/NA	Analysis	8015M/D		10	25716	MI	EET ALB	05/09/25 06:23
Total/NA	Prep	300_Prep			25639	RC	EET ALB	05/07/25 09:48
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 16:53

Client Sample ID: BS25-46 (2')

Lab Sample ID: 885-24275-26

Date Collected: 05/02/25 12:15

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 20:16
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 20:16
Total/NA	Prep	SHAKE			25667	MI	EET ALB	05/07/25 12:17
Total/NA	Analysis	8015M/D		10	25716	MI	EET ALB	05/09/25 06:46
Total/NA	Prep	300_Prep			25639	RC	EET ALB	05/07/25 09:48
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 17:24

Lab Chronicle

Client: Vertex
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-48 (2')
Date Collected: 05/02/25 12:20
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 20:38
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 20:38
Total/NA	Prep	SHAKE			25667	MI	EET ALB	05/07/25 12:17
Total/NA	Analysis	8015M/D		10	25716	MI	EET ALB	05/09/25 07:09
Total/NA	Prep	300_Prep			25639	RC	EET ALB	05/07/25 09:48
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 17:35

Client Sample ID: BS25-49 (2')
Date Collected: 05/02/25 12:25
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 21:00
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 21:00
Total/NA	Prep	SHAKE			25667	MI	EET ALB	05/07/25 12:17
Total/NA	Analysis	8015M/D		1	25716	MI	EET ALB	05/09/25 07:32
Total/NA	Prep	300_Prep			25639	RC	EET ALB	05/07/25 09:48
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 17:45

Client Sample ID: BS25-50 (2')
Date Collected: 05/02/25 12:30
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 21:21
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 21:21
Total/NA	Prep	SHAKE			25667	MI	EET ALB	05/07/25 12:17
Total/NA	Analysis	8015M/D		1	25716	MI	EET ALB	05/09/25 07:55
Total/NA	Prep	300_Prep			25639	RC	EET ALB	05/07/25 09:48
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 17:55

Client Sample ID: BS25-51 (2')
Date Collected: 05/02/25 12:35
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 21:43

Lab Chronicle

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-51 (2')

Lab Sample ID: 885-24275-30

Date Collected: 05/02/25 12:35

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 21:43
Total/NA	Prep	SHAKE			25667	MI	EET ALB	05/07/25 12:17
Total/NA	Analysis	8015M/D		1	25662	EM	EET ALB	05/07/25 20:39
Total/NA	Prep	300_Prep			25639	RC	EET ALB	05/07/25 09:48
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 18:06

Client Sample ID: BS25-52 (2')

Lab Sample ID: 885-24275-31

Date Collected: 05/02/25 12:40

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8015M/D		1	25730	AT	EET ALB	05/08/25 22:05
Total/NA	Prep	5030C			25581	JP	EET ALB	05/06/25 12:54
Total/NA	Analysis	8021B		1	25731	AT	EET ALB	05/08/25 22:05
Total/NA	Prep	SHAKE			25667	MI	EET ALB	05/07/25 12:17
Total/NA	Analysis	8015M/D		1	25662	EM	EET ALB	05/07/25 20:50
Total/NA	Prep	300_Prep			25639	RC	EET ALB	05/07/25 09:48
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 18:16

Client Sample ID: BS25-53 (2')

Lab Sample ID: 885-24275-32

Date Collected: 05/02/25 12:45

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8015M/D		1	25791	JP	EET ALB	05/09/25 00:21
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8021B		1	25790	JP	EET ALB	05/09/25 00:21
Total/NA	Prep	SHAKE			25724	MI	EET ALB	05/08/25 09:39
Total/NA	Analysis	8015M/D		10	25717	EM	EET ALB	05/08/25 22:23
Total/NA	Prep	300_Prep			25679	RC	EET ALB	05/07/25 13:57
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 18:57

Client Sample ID: BS25-54 (2')

Lab Sample ID: 885-24275-33

Date Collected: 05/02/25 12:50

Matrix: Solid

Date Received: 05/06/25 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8015M/D		2	25866	JP	EET ALB	05/09/25 19:34
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8021B		2	25865	JP	EET ALB	05/09/25 19:34

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-54 (2')
Date Collected: 05/02/25 12:50
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			25724	MI	EET ALB	05/08/25 09:39
Total/NA	Analysis	8015M/D		5	25717	EM	EET ALB	05/08/25 22:34
Total/NA	Prep	300_Prep			25679	RC	EET ALB	05/07/25 13:57
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 19:49

Client Sample ID: BS25-55 (2')
Date Collected: 05/02/25 12:55
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8015M/D		2	25791	JP	EET ALB	05/09/25 03:07
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8021B		2	25790	JP	EET ALB	05/09/25 03:07
Total/NA	Prep	SHAKE			25724	MI	EET ALB	05/08/25 09:39
Total/NA	Analysis	8015M/D		10	25717	EM	EET ALB	05/08/25 22:45
Total/NA	Prep	300_Prep			25679	RC	EET ALB	05/07/25 13:57
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 20:20

Client Sample ID: BS25-56 (2')
Date Collected: 05/02/25 13:00
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8015M/D		1	25791	JP	EET ALB	05/09/25 03:31
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8021B		1	25790	JP	EET ALB	05/09/25 03:31
Total/NA	Prep	SHAKE			25724	MI	EET ALB	05/08/25 09:39
Total/NA	Analysis	8015M/D		10	25990	MI	EET ALB	05/13/25 15:47
Total/NA	Prep	300_Prep			25679	RC	EET ALB	05/07/25 13:57
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 20:31

Client Sample ID: BS25-57 (2')
Date Collected: 05/02/25 13:05
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8015M/D		1	25866	JP	EET ALB	05/09/25 19:10
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8021B		1	25865	JP	EET ALB	05/09/25 19:10
Total/NA	Prep	SHAKE			25724	MI	EET ALB	05/08/25 09:39
Total/NA	Analysis	8015M/D		20	25717	EM	EET ALB	05/08/25 22:59

Lab Chronicle

Client: Vertex

Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-57 (2')
Date Collected: 05/02/25 13:05
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			25679	RC	EET ALB	05/07/25 13:57
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 20:41

Client Sample ID: BS25-58 (2')
Date Collected: 05/02/25 13:10
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8015M/D		1	25791	JP	EET ALB	05/09/25 04:18
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8021B		1	25790	JP	EET ALB	05/09/25 04:18
Total/NA	Prep	SHAKE			25724	MI	EET ALB	05/08/25 09:39
Total/NA	Analysis	8015M/D		2	25717	EM	EET ALB	05/08/25 23:10
Total/NA	Prep	300_Prep			25679	RC	EET ALB	05/07/25 13:57
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 20:51

Client Sample ID: BS25-59 (2')
Date Collected: 05/02/25 13:15
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8015M/D		1	25791	JP	EET ALB	05/09/25 04:42
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8021B		1	25790	JP	EET ALB	05/09/25 04:42
Total/NA	Prep	SHAKE			25724	MI	EET ALB	05/08/25 09:39
Total/NA	Analysis	8015M/D		1	25990	MI	EET ALB	05/13/25 14:59
Total/NA	Prep	300_Prep			25679	RC	EET ALB	05/07/25 13:57
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 21:02

Client Sample ID: BS25-60 (2')
Date Collected: 05/02/25 13:20
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8015M/D		1	25791	JP	EET ALB	05/09/25 05:06
Total/NA	Prep	5030C			25670	JP	EET ALB	05/07/25 12:22
Total/NA	Analysis	8021B		1	25790	JP	EET ALB	05/09/25 05:06
Total/NA	Prep	SHAKE			25724	MI	EET ALB	05/08/25 09:39
Total/NA	Analysis	8015M/D		10	25990	MI	EET ALB	05/13/25 14:35
Total/NA	Prep	300_Prep			25679	RC	EET ALB	05/07/25 13:57
Total/NA	Analysis	300.0		20	25622	RC	EET ALB	05/07/25 21:33

Lab Chronicle

Client: Vertex
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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Accreditation/Certification Summary

Client: Vertex
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

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

CHAIN-OF-CUSTODY RECORD

Client: **Vertex (bill to Devon Energy, Jim Raley)**

X Standard	X Fresh 5 Day
Project Name:	

Mailing Address: (On File)

North Pure Gold 9 Fed 1

Phone #:

25A-01165

email or Fax#:

Project Manager:

QA/QC Package:

Sally Carttar

☐ Standard ☐ Level 4 (Full Validation)

SCarttar@vertexresource.com

Accreditation: ☐ Az Compliance

Sampler: Sharon Minnix

☐ NELAC ☐ Other _____

On Ice: ☒ Yes ☐ No

☐ EDD (Type) _____

of Coolers: 1

Cooler Temp (including CF): $2.4 + 0.2 = 2.8^\circ\text{C}$ [illegible]

Date:	Time:	Relinquished by: Sharon Minnix
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Received by:	Via:	Date	Time
		3/3/25	1300

Date: 5/5/25	Time: 1900	Relinquished by: 
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Received by:	Via:	Date	Time
	114.56	5/6/25	7:14



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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



885-24275 COC

Received by OCD: 6/23/2025 8:35:18 AM

Page 363 of 393

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.

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

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
		Sharon Minnix	C		5/5/95	1300
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/5/95	1900	C		runner	5/6/95	7:10

Remarks: Direct Bill to Devon Energy ATTN: Jim Raley CC.Sally Carttar (SCarttar@vertexresource.com), Kent Stallings (kstallings@vertexresource.com), Andrew Ludvik (ALudvik@vertexresource.com), and Sharon Minnix (SMinnix@vertexresource.com) 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.

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

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
		Sharon Minnix			5/5/25	1300
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/5/25	1200				5/6/25	7:40

Remarks: Direct Bill to Devon Energy ATTN: Jim Raley
CC:Sally Carttar (SCarttar@vertexresource.com), Kent Stallings
(kstallings@vertexresource.com), Andrew Ludvik
(ALudvik@vertexresource.com), and Sharon Minnix
(SMinnix@vertexresource.com) 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.

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-24275-1

Login Number: 24275

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.	False	IDs on containers do not match the COC. Logged in per COC.
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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carttar
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 5/14/2025 12:18:51 PM

JOB DESCRIPTION

North Pure Gold 9 Federal #001

JOB NUMBER

885-24618-1

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
(505)345-3975

Generated
5/14/2025 12:18:51 PM

Client: Vertex
Project/Site: North Pure Gold 9 Federal #001

Laboratory Job ID: 885-24618-1

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Definitions/Glossary

Client: Vertex
Project/Site: North Pure Gold 9 Federal #001

Job ID: 885-24618-1

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
S1-	Surrogate recovery exceeds control limits, low biased.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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 9 Federal #001

Job ID: 885-24618-1

Job ID: 885-24618-1

Eurofins Albuquerque

Job Narrative 885-24618-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/9/2025 7:25 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 4.3°C.

Gasoline Range Organics

Method 8015D_GRO: Surrogate recovery for the following sample was outside control limits: BS25-47 2' (885-24618-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: BS25-47 2' (885-24618-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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 following sample was diluted due to the nature of the sample matrix: BS25-47 2' (885-24618-3)

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: 885-24618-1

Project/Site: North Pure Gold 9 Federal #001

Client Sample ID: BS25-42 2'

Lab Sample ID: 885-24618-1

Date Collected: 05/07/25 10:00

Matrix: Solid

Date Received: 05/09/25 07:25

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		05/12/25 14:05	05/13/25 20:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 150			05/12/25 14:05	05/13/25 20:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/12/25 14:05	05/13/25 20:58	1
Ethylbenzene	ND		0.048	mg/Kg		05/12/25 14:05	05/13/25 20:58	1
Toluene	ND		0.048	mg/Kg		05/12/25 14:05	05/13/25 20:58	1
Xylenes, Total	ND		0.096	mg/Kg		05/12/25 14:05	05/13/25 20:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			05/12/25 14:05	05/13/25 20:58	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]	250		19	mg/Kg		05/13/25 10:35	05/14/25 09:58	2
Motor Oil Range Organics [C28-C40]	260		97	mg/Kg		05/13/25 10:35	05/14/25 09:58	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	124		62 - 134			05/13/25 10:35	05/14/25 09:58	2

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		60	mg/Kg		05/12/25 17:09	05/13/25 10:45	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex

Job ID: 885-24618-1

Project/Site: North Pure Gold 9 Federal #001

Client Sample ID: BS25-44 2'

Lab Sample ID: 885-24618-2

Date Collected: 05/07/25 10:20

Matrix: Solid

Date Received: 05/09/25 07:25

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		05/12/25 14:05	05/13/25 22:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			05/12/25 14:05	05/13/25 22:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/12/25 14:05	05/13/25 22:03	1
Ethylbenzene	ND		0.049	mg/Kg		05/12/25 14:05	05/13/25 22:03	1
Toluene	ND		0.049	mg/Kg		05/12/25 14:05	05/13/25 22:03	1
Xylenes, Total	ND		0.098	mg/Kg		05/12/25 14:05	05/13/25 22:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			05/12/25 14:05	05/13/25 22:03	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]	76		19	mg/Kg		05/13/25 10:35	05/14/25 10:10	2
Motor Oil Range Organics [C28-C40]	170		95	mg/Kg		05/13/25 10:35	05/14/25 10:10	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134			05/13/25 10:35	05/14/25 10:10	2

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/12/25 17:09	05/13/25 11:16	20

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Client Sample Results

Client: Vertex

Job ID: 885-24618-1

Project/Site: North Pure Gold 9 Federal #001

Client Sample ID: BS25-47 2'

Lab Sample ID: 885-24618-3

Date Collected: 05/07/25 10:40

Matrix: Solid

Date Received: 05/09/25 07:25

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	280		4.9	mg/Kg		05/12/25 14:05	05/13/25 22:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	578	S1+	15 - 150			05/12/25 14:05	05/13/25 22:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/12/25 14:05	05/13/25 22:25	1
Ethylbenzene	1.7		0.049	mg/Kg		05/12/25 14:05	05/13/25 22:25	1
Toluene	0.24		0.049	mg/Kg		05/12/25 14:05	05/13/25 22:25	1
Xylenes, Total	9.7		0.097	mg/Kg		05/12/25 14:05	05/13/25 22:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	232	S1+	15 - 150			05/12/25 14:05	05/13/25 22:25	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]	2900		97	mg/Kg		05/13/25 10:35	05/14/25 11:04	10
Motor Oil Range Organics [C28-C40]	1800		480	mg/Kg		05/13/25 10:35	05/14/25 11:04	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	D S1-	62 - 134			05/13/25 10:35	05/14/25 11:04	10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/12/25 17:09	05/13/25 11:26	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex

Job ID: 885-24618-1

Project/Site: North Pure Gold 9 Federal #001

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

Lab Sample ID: MB 885-25955/1-A

Matrix: Solid

Analysis Batch: 26052

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25955

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		05/12/25 14:05	05/13/25 19:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 150			05/12/25 14:05	05/13/25 19:31	1

Lab Sample ID: LCS 885-25955/2-A

Matrix: Solid

Analysis Batch: 26052

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	29.5		mg/Kg		118	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	225		15 - 150				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-25955/1-A

Matrix: Solid

Analysis Batch: 26053

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25955

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/12/25 14:05	05/13/25 19:31	1
Ethylbenzene	ND		0.050	mg/Kg		05/12/25 14:05	05/13/25 19:31	1
Toluene	ND		0.050	mg/Kg		05/12/25 14:05	05/13/25 19:31	1
Xylenes, Total	ND		0.10	mg/Kg		05/12/25 14:05	05/13/25 19:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			05/12/25 14:05	05/13/25 19:31	1

Lab Sample ID: LCS 885-25955/3-A

Matrix: Solid

Analysis Batch: 26053

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.01		mg/Kg		101	70 - 130
Ethylbenzene	1.00	1.02		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	2.00	2.06		mg/Kg		103	70 - 130
o-Xylene	1.00	1.04		mg/Kg		104	70 - 130
Toluene	1.00	0.998		mg/Kg		100	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	96		15 - 150				

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QC Sample Results

Client: Vertex

Job ID: 885-24618-1

Project/Site: North Pure Gold 9 Federal #001

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

Lab Sample ID: 885-24618-1 MS

Matrix: Solid

Analysis Batch: 26053

Client Sample ID: BS25-42 2'

Prep Type: Total/NA

Prep Batch: 25955

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.954	1.01		mg/Kg		105	70 - 130
Ethylbenzene	ND		0.954	1.03		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	ND		1.91	2.07		mg/Kg		109	70 - 130
o-Xylene	ND		0.954	1.06		mg/Kg		111	70 - 130
Toluene	ND		0.954	1.00		mg/Kg		105	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		15 - 150

Lab Sample ID: 885-24618-1 MSD

Matrix: Solid

Analysis Batch: 26053

Client Sample ID: BS25-42 2'

Prep Type: Total/NA

Prep Batch: 25955

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.952	0.966		mg/Kg		101	70 - 130	4	20
Ethylbenzene	ND		0.952	1.01		mg/Kg		106	70 - 130	2	20
m-Xylene & p-Xylene	ND		1.90	2.01		mg/Kg		105	70 - 130	3	20
o-Xylene	ND		0.952	1.01		mg/Kg		106	70 - 130	5	20
Toluene	ND		0.952	0.957		mg/Kg		100	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		15 - 150

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

Lab Sample ID: MB 885-26023/1-A

Matrix: Solid

Analysis Batch: 26099

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26023

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/13/25 10:35	05/14/25 09:34	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/13/25 10:35	05/14/25 09:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	119		62 - 134	05/13/25 10:35	05/14/25 09:34	1

Lab Sample ID: LCS 885-26023/2-A

Matrix: Solid

Analysis Batch: 26099

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	46.8		mg/Kg		94	51 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	106		62 - 134

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QC Sample Results

Client: Vertex

Job ID: 885-24618-1

Project/Site: North Pure Gold 9 Federal #001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-25976/1-A						Client Sample ID: Method Blank					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 25989						Prep Batch: 25976					
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	ND		1.5	mg/Kg		05/12/25 17:09	05/13/25 09:53	1			
Lab Sample ID: LCS 885-25976/2-A						Client Sample ID: Lab Control Sample					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 25989						Prep Batch: 25976					
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	14.6		mg/Kg		98	90 - 110		
Lab Sample ID: 885-24618-1 MS						Client Sample ID: BS25-42 2'					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 25989						Prep Batch: 25976					
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250		30.0	286	4	mg/Kg		113	50 - 150		
Lab Sample ID: 885-24618-1 MSD						Client Sample ID: BS25-42 2'					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 25989						Prep Batch: 25976					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
Chloride	250		29.9	291	4	mg/Kg		130	50 - 150	2	

QC Association Summary

Client: Vertex

Job ID: 885-24618-1

Project/Site: North Pure Gold 9 Federal #001

GC VOA

Prep Batch: 25955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24618-1	BS25-42 2'	Total/NA	Solid	5030C	
885-24618-2	BS25-44 2'	Total/NA	Solid	5030C	
885-24618-3	BS25-47 2'	Total/NA	Solid	5030C	
MB 885-25955/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-25955/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-25955/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-24618-1 MS	BS25-42 2'	Total/NA	Solid	5030C	
885-24618-1 MSD	BS25-42 2'	Total/NA	Solid	5030C	

Analysis Batch: 26052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24618-1	BS25-42 2'	Total/NA	Solid	8015M/D	25955
885-24618-2	BS25-44 2'	Total/NA	Solid	8015M/D	25955
885-24618-3	BS25-47 2'	Total/NA	Solid	8015M/D	25955
MB 885-25955/1-A	Method Blank	Total/NA	Solid	8015M/D	25955
LCS 885-25955/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25955

Analysis Batch: 26053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24618-1	BS25-42 2'	Total/NA	Solid	8021B	25955
885-24618-2	BS25-44 2'	Total/NA	Solid	8021B	25955
885-24618-3	BS25-47 2'	Total/NA	Solid	8021B	25955
MB 885-25955/1-A	Method Blank	Total/NA	Solid	8021B	25955
LCS 885-25955/3-A	Lab Control Sample	Total/NA	Solid	8021B	25955
885-24618-1 MS	BS25-42 2'	Total/NA	Solid	8021B	25955
885-24618-1 MSD	BS25-42 2'	Total/NA	Solid	8021B	25955

GC Semi VOA

Prep Batch: 26023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24618-1	BS25-42 2'	Total/NA	Solid	SHAKE	
885-24618-2	BS25-44 2'	Total/NA	Solid	SHAKE	
885-24618-3	BS25-47 2'	Total/NA	Solid	SHAKE	
MB 885-26023/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-26023/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 26099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24618-1	BS25-42 2'	Total/NA	Solid	8015M/D	26023
885-24618-2	BS25-44 2'	Total/NA	Solid	8015M/D	26023
885-24618-3	BS25-47 2'	Total/NA	Solid	8015M/D	26023
MB 885-26023/1-A	Method Blank	Total/NA	Solid	8015M/D	26023
LCS 885-26023/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	26023

HPLC/IC

Prep Batch: 25976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24618-1	BS25-42 2'	Total/NA	Solid	300_Prep	
885-24618-2	BS25-44 2'	Total/NA	Solid	300_Prep	
885-24618-3	BS25-47 2'	Total/NA	Solid	300_Prep	

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QC Association Summary

Client: Vertex

Project/Site: North Pure Gold 9 Federal #001

Job ID: 885-24618-1

HPLC/IC (Continued)

Prep Batch: 25976 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-25976/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-25976/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-24618-1 MS	BS25-42 2'	Total/NA	Solid	300_Prep	
885-24618-1 MSD	BS25-42 2'	Total/NA	Solid	300_Prep	

Analysis Batch: 25989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24618-1	BS25-42 2'	Total/NA	Solid	300.0	25976
885-24618-2	BS25-44 2'	Total/NA	Solid	300.0	25976
885-24618-3	BS25-47 2'	Total/NA	Solid	300.0	25976
MB 885-25976/1-A	Method Blank	Total/NA	Solid	300.0	25976
LCS 885-25976/2-A	Lab Control Sample	Total/NA	Solid	300.0	25976
885-24618-1 MS	BS25-42 2'	Total/NA	Solid	300.0	25976
885-24618-1 MSD	BS25-42 2'	Total/NA	Solid	300.0	25976

Lab Chronicle

Client: Vertex
Project/Site: North Pure Gold 9 Federal #001

Job ID: 885-24618-1

Client Sample ID: BS25-42 2'
Date Collected: 05/07/25 10:00
Date Received: 05/09/25 07:25

Lab Sample ID: 885-24618-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8015M/D		1	26052	AT	EET ALB	05/13/25 20:58
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8021B		1	26053	AT	EET ALB	05/13/25 20:58
Total/NA	Prep	SHAKE			26023	MI	EET ALB	05/13/25 10:35
Total/NA	Analysis	8015M/D		2	26099	MI	EET ALB	05/14/25 09:58
Total/NA	Prep	300_Prep			25976	DL	EET ALB	05/12/25 17:09
Total/NA	Analysis	300.0		20	25989	DL	EET ALB	05/13/25 10:45

Client Sample ID: BS25-44 2'
Date Collected: 05/07/25 10:20
Date Received: 05/09/25 07:25

Lab Sample ID: 885-24618-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8015M/D		1	26052	AT	EET ALB	05/13/25 22:03
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8021B		1	26053	AT	EET ALB	05/13/25 22:03
Total/NA	Prep	SHAKE			26023	MI	EET ALB	05/13/25 10:35
Total/NA	Analysis	8015M/D		2	26099	MI	EET ALB	05/14/25 10:10
Total/NA	Prep	300_Prep			25976	DL	EET ALB	05/12/25 17:09
Total/NA	Analysis	300.0		20	25989	DL	EET ALB	05/13/25 11:16

Client Sample ID: BS25-47 2'
Date Collected: 05/07/25 10:40
Date Received: 05/09/25 07:25

Lab Sample ID: 885-24618-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8015M/D		1	26052	AT	EET ALB	05/13/25 22:25
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8021B		1	26053	AT	EET ALB	05/13/25 22:25
Total/NA	Prep	SHAKE			26023	MI	EET ALB	05/13/25 10:35
Total/NA	Analysis	8015M/D		10	26099	MI	EET ALB	05/14/25 11:04
Total/NA	Prep	300_Prep			25976	DL	EET ALB	05/12/25 17:09
Total/NA	Analysis	300.0		20	25989	DL	EET ALB	05/13/25 11:26

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 9 Federal #001

Job ID: 885-24618-1

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

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-24618-1

Login Number: 24618

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	

APPENDIX F – Remediate Technical Sheet

Liquid Remediate

MICROBIAL

HYDROCARBON REMEDIATION FORMULA

PRODUCT INFORMATION BULLETIN



Product Overview

Liquid Remediate™ is a newly developed product that was created to solve soil & water hydrocarbon contamination problems. This product has the ability to bio-remediate most hydrocarbons with a minimum amount of equipment, labor and cost.

What sets *Liquid Remediate™* apart from all other products is the high concentration of live synergistic bacteria, in a remediation liquid, that quickly starts the bio-remediation process. Because of its relatively low cost, *Liquid Remediate™* is the ideal solution for most industries to solve their own hydrocarbon contamination problems.

How To Use This Product

Liquid Remediate™ is highly concentrated. This product must be mixed in a ratio of 10 parts water to 1 part *Liquid Remediate™*. Changing this dilution is not recommended. Each mixed or diluted gallon will remediate approximately one cubic yard of soil or 200 gallons of water. *Liquid Remediate™* is an exceptionally universal product and can be applied to in-situ and ex-situ contamination projects by any of the following methods:

Land Farming • Pressure Spraying • "Geoprobe" Injection • Monitoring Well Injection
Gravity Feed System • Automatic Dosing Equipment

Liquid Remediate™ can be used in conjunction with *Dry Remediate and HC Series* products as your specific circumstances require. *Liquid Remediate Kit™* includes Nutrients and "BioEnhancers" to accelerate your task.

Consult your Distributor or Factory Representative for details

This Product Will Treat

The following is a partial list of the hydrocarbons that *Liquid Remediate™* can remediate:

- DIESEL FUEL
- HEATING OIL
- GASOLINE
- BENZENE
- PARAFFIN
- LUBRICATING OIL
- PAINT THINNERS
- MINERAL SPIRITS
- MOTOR OIL
- AROMATICS
- ETHYLBENZENE
- JET FUEL
- CUTTING OILS
- GLYCOLS
- ALCOHOL
- NAPHTHALENE
- CRUDE OIL
- TOLUENE
- KEROSENE
- SOLVENTS
- ANTI-FREEZE
- ORGANIC PESTICIDES
- ORGANIC HERBICIDES
- TRANSMISSION FLUID
- XYLENE
- ORGANIC SOLVENTS
- GREASE
- TARS

Technical Information

Liquid Remediate™ is an active mixture of hydrocarbon-oxidizing, naturally occurring, single-celled micro-organisms with a "bio-surface cleaning agent" and water. **It is specially formulated to be safe, environmentally enhancing and effective.**

PHYSICAL PROPERTIES:

Appearance: Clear Liquid
Odor: Orange Citrus
Boiling Point: 212° F.
Soluble in Water: Complete
pH Concentrate: 6.9 to 7.2
pH Diluted: 6.9 to 7.5
Evaporation Rate: Same as Water

PRODUCT EFFECTIVENESS: The effectiveness of this product and the "speed" at which it works is determined by certain factors. In general these factors are as follows:

TEMPERATURE: The warmer the temperature, the faster this product will work.

The effective operating temperature is between 42° F. & 120° F.

AERATION & PRESSURE: Aeration (air hose or "bubbler") & pressure speeds the process.

TYPE OF HYDROCARBON: Some hydrocarbons take longer than others.

The bio-remedial process generally will begin immediately but may take longer to complete depending on the above factors.

Packaging Information

1 GALLON JUG (4 PER CASE)
5 GALLONS
55 GALLON DRUM
275 GALLON TOTE



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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 475813

QUESTIONS

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 475813
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1918631481
Incident Name	NAB1918631481 NORTH PURE GOLD 9 FEDERAL #001 @ 30-015-27178
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Well	[30-015-27178] NORTH PURE GOLD 9 FEDERAL #001

Location of Release Source

Please answer all the questions in this group.

Site Name	NORTH PURE GOLD 9 FEDERAL #001
Date Release Discovered	12/09/2018
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	Not answered.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Water Tank Produced Water Released: 229 BBL Recovered: 220 BBL Lost: 9 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.

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QUESTIONS, Page 2

Action 475813

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 475813
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
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: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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 Title: Business Manager Email: rkidd@buckhornproduction.com Date: 06/23/2025
--	---

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QUESTIONS, Page 3

Action 475813

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 475813
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
<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 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	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

Remediation Plan	
<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
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	9800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	31000
GRO+DRO (EPA SW-846 Method 8015M)	18000
BTEX (EPA SW-846 Method 8021B or 8260B)	153.2
Benzene (EPA SW-846 Method 8021B or 8260B)	3.2
<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	04/09/2020
On what date will (or did) the final sampling or liner inspection occur	05/07/2025
On what date will (or was) the remediation complete(d)	12/31/2040
What is the estimated surface area (in square feet) that will be reclaimed	12654
What is the estimated volume (in cubic yards) that will be reclaimed	1876
What is the estimated surface area (in square feet) that will be remediated	12654
What is the estimated volume (in cubic yards) that will be remediated	1876
<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>	

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QUESTIONS, Page 4

Action 475813

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 475813
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<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 Title: Business Manager Email: rkidd@buckhornproduction.com Date: 06/23/2025
<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>	

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QUESTIONS, Page 5

Action 475813

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 475813
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	The entire tank battery will need to be removed, halting production for the duration of the remediation.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	12654
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	1876
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-27178 NORTH PURE GOLD 9 FEDERAL #001
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<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 Title: Business Manager Email: rkidd@buckhornproduction.com Date: 06/23/2025

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QUESTIONS, Page 6

Action 475813

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 475813
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	458332
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/07/2025
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	600

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
--	----

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CONDITIONS

Action 475813

CONDITIONS

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 475813
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Deferral approved. Deferral of BS20-09, BS25-32, BS25-38 through BS25-41, BS25-45 through BS25-48, BS25-53 through BS25-57, and BS25-60 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time. Lastly, the OCD notes that while there is email notification in Appendix D for confirmation samples to be collected, sent on May 13, 2020, there is no confirmed pre-approval for the application of Remediate in this report. In future reports, please include all approvals for chemical or biological application approved via email.	10/14/2025