General Information

istrict 2 – Artesia	RP Reference:	2RP-3233, 2RP-4414, 2RP-4741, 2RP-4971
ureau of Land Management	Incident ID:	nAB1524531624, nAB1727057447, nAB1813442138, nMAP1826042805, nAPP2106151044
evon Energy Production Company, LP	Site Location:	North Pure Gold 8 Federal #011
pril 28, 2025	Project #:	25A-02298
m Raley	Phone #:	575.689.7587
ent Stallings	Phone #:	364.814.1413
r r	ureau of Land Management evon Energy Production Company, LP oril 28, 2025 m Raley	ureau of Land ManagementIncident ID:evon Energy Production Company, LPSite Location:oril 28, 2025Project #:m RaleyPhone #:

Objective

The objective of this Environmental Site Remediation Work Plan is to identify areas of exceedance for constituents of concern found during spill assessment and site characterization activities, and propose appropriate remediation techniques to address the five open releases at North Pure Gold 8 Federal #011 (hereafter referred to as "site"). All five releases involved produced water and were caused by a hole in the high pressure line on the H pump (2RP-3233); a ½-inch bull plug washing out (2RP-4414); an underground injection line that developed a leak (2RP-4741); a mechanical failure involving a flex hose from the charge pump to the H pump blowing off the connector (2RP-4971); and a failed ball valve on the liquid gauge. Devon Energy Production Company, LP provided notification of the releases to New Mexico Oil Conservation Division District 2. and the Bureau of Land Management, who own the property, via initial C-141 Release Notifications submitted on September 1, 2015, September 26, 2017, May 11, 2018, September 14, 2018, and March 2, 2021. An aerial photograph of the site with the cumulative impact area of these five releases is presented on Figure 1 (Attachment 1). Areas of concern identified and delineated include most of the facility pad radiating north, northeast, and east of the tank battery in the southeast corner of the site. Closure criteria have been selected as per New Mexico Administrative Code 19.15.29.12 and are presented below (Table 1).

Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
> 100 feet	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – Total dissolved solids

TPH – Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO)

BTEX - Benzene, toluene, ethylbenzene, and xylenes

Characterization and Initial Remediation

The site characterization was completed on July 17, 2023. A total of 42 sample points were established across the release areas and samples were collected from these locations at various depths for field screening. In total, 91 samples were submitted to Hall Environmental Analysis Laboratory, Albuquerque, New Mexico, for analysis. The sample locations are presented on Figure 1 (Attachment 1). Laboratory analysis results were compared to the above noted closure criteria and the results from the characterization activity are presented in Table 2 (Attachment 2). Exceedances to reclamation and remediation criteria are identified in the table in bold with green or grey background, respectively. Daily field reports and laboratory data reports are included in Attachments 3 and 4,



respectively. All applicable research as it pertains to closure criteria selection is presented in Attachment 5. The combined NMCOD C-141 Report for the site is included in Attachment 6.

Remedial Activities

General

Areas identified with contaminant concentrations above closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed. The soil will be excavated to the extent of the known contamination or in 2-foot increments, whichever is less. Field screening will be utilized to confirm the removal of contaminated soil below the applicable closure criteria. Contaminated soils will be stored on a 30mil liner prior to disposal at an approved facility. Once the excavation is complete, confirmatory samples will be collected and laboratory analysis completed to confirm closure criteria guidelines are met. Excavations will be backfilled with clean soil sourced locally. Upon approval, remediation efforts will be completed within 90 days.

Pad From Tank Battery to North and East edges of pad – nAB1524531624, nAB1727057447,

nAB1813442138, nMAP1826042805, nAPP2106151044

Samples were collected at a total of 42 points on the pad and into the pasture north of the pad to characterize the area to be excavated. Exceedances to closure criteria were found at one sample point (BH21-04). The soil will be excavated from the impact area at the tank battery to a planned depth of 3 feet below ground surface. The proposed excavation area is shown on Figure 2 (Attachment 1). A hand crew and/or hydrovac truck will be utilized to remove contaminated soil in close proximity to the wellhead, underground flowlines, and remaining equipment. Heavy equipment will be used to complete excavation in the release area not conflicting with equipment. Field screening will be utilized to find the horizontal and vertical extents of the impacted area. The estimated volume to be excavated is 22 cubic yards.

Confirmation sampling of the excavation base and wall areas will utilize five-point composite samples each representative of no more than 200 square feet. All confirmation samples will be submitted for laboratory analysis of all applicable parameters. Excavation is planned to be completed within 90 days of approval of this Environmental Site Remediation Work Plan.

Sample Point	Excavation Depth	Remediation Method
BH21-04	3'	Excavator/ Handcrew/ Hydrovac



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

Riley Arnold

Riley Arnold, B.Sc. ENVIRONMENTAL TECHNICIAN, REPORTING

May 9, 2025

Date

Kent Stallings, P.G.

May 9,2025

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

Attachments

Attachment 1. Site Sampling Schematic and Proposed Excavation Schematic

Attachment 2. Field Screening and Laboratory Results Table

Attachment 3. Daily Field Reports with Photographs

Attachment 4. Laboratory Data Reports

Attachment 5. Closure Criteria Research



Attachment 1.

.





Released to Imaging: 6/9/2025 2:25:32 PM



Attachment 2.

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Client Name: Devon Energy Production Company, LP Site Name: North Pure Gold 8 Federal #011 NMOCD Tracking #: nAB1524531624, nAB1727057447, nAB1813442138, nMAP1826042805, nAPP2106151044 Project #: 25A-02298 Lab Report(sX): P905060, 2108E74, 2307707, 2307708, 2307747, and 2307825

Table 2. Initial CharacterizationLaboratory Results										
S	ample Descrip	otion			Petrol	eum Hydroc				
			Vol	atile	Extractable				Inorganic	
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	0	Marc 14, 2010		ND		•	undwater >	1	000	1.240
TP19-01	0	May 14, 2019	ND	ND	ND	356	642	356	998	1,240
TP19-02	2	May 14, 2019 May 14, 2019	ND ND	ND ND	ND ND	29.4 ND	ND ND	29 ND	ND ND	294 2,810
113-02	0	May 14, 2019 May 14, 2019	ND	ND	ND	ND	ND	ND	ND	2,810
TP19-03	2	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	754
	0	May 14, 2019	ND	ND	ND	25.2	ND	25	ND	4,100
TP19-04	2	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	94
TD10.05	0	May 14, 2019	ND	ND	ND	37.7	ND	38	ND	6,650
TP19-05	2	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	365
TP19-06	0	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	1,440
1919-00	2	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	1,410
TP19-07	0	May 14, 2019	ND	ND	ND	36.9	ND	37	ND	1,980
	2	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	634
TP19-08	0	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	16,600
51104.04	2	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	54
BH21-01	0.5	August 24, 2021	ND	ND	ND	ND	ND	ND	ND	ND
BH21-03	0.5	August 24, 2021	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	8,900 1,200
	0.5	August 24, 2021 August 24, 2021	ND	ND	ND	16	84	16	100	3,500
BH21-04	2	August 24, 2021 August 24, 2021	ND	ND	ND	890	2,600	890	3,490	410
	4	August 24, 2021	ND	ND	ND	47	180	47	227	370
	0	July 13, 2023	ND	ND	ND	28	58	28	86	8,100
BH23-05	2	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	840
	4	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	720
	0	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	7,400
BH23-06	2	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	410
	4	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	460
	0	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	13,000
BH23-07	2	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	4,000
	4	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	2,600
	0	July 13, 2023 July 13, 2023	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	9,000 850
BH23-08	4	July 13, 2023 July 13, 2023	ND	ND	ND	ND	ND	ND	ND	2,400
	6	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	2,400



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s	ample Descrip	otion	Petroleum Hydrocarbons							
			Vola	Volatile Extractable						
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			-		C	Depth to Gro	undwater >	100		
	0	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	1,900
BH23-09	2	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	2,300
	4	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	1,200
BH23-10	0	July 14, 2023	ND	ND	ND	13	ND	13	13	2,900
	2	July 14, 2023	ND	ND	ND	13	ND	13	13	550
BH23-11	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	16,000
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	630
BH23-12	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	71
BH23-13	0	July 14, 2023	ND	ND	ND	26	ND	26	26	110
	2	July 14, 2023	ND	ND	ND	18	ND	18	18	200
BH23-14	0	July 14, 2023	ND	ND	ND	15	ND	15 ND	15 ND	ND
	2	July 14, 2023	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND	ND 520
BH23-15	2	July 14, 2023 July 14, 2023	ND ND	ND	ND ND	ND	ND	ND	ND	360
	0	July 14, 2023 July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-16	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-17	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	67
	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	7,800
BH23-18	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	1,400
BH23-19	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	290
БП25-19	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-20	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	170
B1123-20	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	160
BH23-21	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	300
525 2.1	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	200
BH23-21	0	July 14, 2023	ND	ND	ND	120	51	120	171	1,800
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	1,800
BH23-23	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	440
		July 14, 2023	ND	ND	ND	ND	ND	ND	ND	220
BH23-24	0	July 14, 2023 July 14, 2023	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	3,600 210
	2	July 14, 2025	ND	ND	ND		ND	ND	ND	210



S	ample Descrip	otion			Petrol	eum Hydroc	arbons			
			Vola	atile			Extractable			Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg) Depth to Gro	(mg/kg)	(mg/kg) 100	(mg/kg)	(mg/kg)
	0	July 14, 2023	ND	ND	ND		ND	ND	ND	990
BH23-25	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	110
	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	350
BH23-26	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	150
BH23-27	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	92
BHZ3-Z7	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-28	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
B1125-28	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-29	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
51125 25	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-30	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	240
51125 50	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	89
BH23-31	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	210
5.123 51	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	100
BH23-32	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	1,200
220 02	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	86
BH23-33	0	July 17, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 17, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-34	0	July 17, 2023	ND	ND	ND	ND	ND	ND	ND	730
	2	July 17, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-35	0	July 17, 2023	ND	ND	ND	ND	ND	ND	ND	89
	2	July 17, 2023	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 Closure Criteria (on-pad)

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Attachment 3.

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Client:	Devon Energy Corporation	Inspection Date:	5/14/2019
Site Location Name:	North Pure Gold 8 Federal 11	Report Run Date:	6/24/2019 7:02 PM
Project Owner:	Amanda Davis	File (Project) #:	19E-00575
Project Manager:	Dennis Williams	API #:	30-015-32619
Client Contact Name:	Amanda Davis	Reference	Historic Spills
Client Contact Phone #:	(575) 748-0176		
		Summary of	Times
Left Office	5/14/2019 6:30 AM		
Arrived at Site	5/14/2019 7:30 AM		
Departed Site	5/14/2019 12:26 PM		
Returned to Office	5/14/2019 1:15 PM		

VERTEX

Site Sketch Project North Pure Gold & Fed 11 19E-00575 Date 5-14-2019 VERTEX Client Devon Sheet of NA TP19-04 TP19-05 7P19-06 Well Head TP 19-03 X TP19-07 TP19-08 TPIA-02 TP19-01 XBH19-11 Pump × 13H14-10 × BIH19-09 X BH19-12 ertex.ca

Run on 6/24/2019 7:02 PM UTC

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Summary of Daily Operations 11:44 Fill out arrival, safety, and ground disturbance forms Tailgate safety meeting Field screen and collect samples Take pictures Fill out DFR Demobilize

Next Steps & Recommendations

1











Depth Sample Photos Sample Point ID: TP19-01 Sample Point ID: TP19-01 9 11:49:34 AM 48:35 AM 1-103.798090 03,79809 Depth: Oft. Depth: 2ft. Sample Point ID: TP19-02 Sample Point ID: TP19-02 1:52:12 AM Depth: Oft. Depth: 2ft.























Daily Site Visit Signature

Inspector: Jason Crabtree Signature:



Client:	Devon Energy Corporation	Inspection Date:	8/24/2021
Site Location Name:	North Pure Gold 8 Federal 11	Report Run Date:	8/24/2021 7:24 PM
Client Contact Name:	Wes Matthews	API #:	30-015-32619
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of T	limes
Arrived at Site	8/24/2021 7:26 AM		
Departed Site	8/24/2021 1:00 PM		

Field Notes

7:28 Arrived on site, began dfr and filling out safety paperwork to begin horizontal delineation on spills.

8:14 Collecting sample between SS03 and the edge of pad to check for clean.

8:47 Taking a BH02 on pad

13:22 BH21-03 and 04 maxed out at 8' and still not getting clean.

Next Steps & Recommendations

1



Site Photos Viewing Direction: North Viewing Direction: Northwest North edge of pad between SS03 BH21-02 on pad, finding vertical delineation Viewing Direction: North Viewing Direction: Southeast Collection of BH04

Collection of BH03, inside fenced area just North of pumps.

Run on 8/24/2021 7:24 PM UTC



Daily Site Visit Signature

Inspector: John Ramirez

Signature:



Client:	Devon Energy Corporation	Inspection Date:	7/13/2023	
Site Location Name:	North Pure Gold 8 Federal 11	Report Run Date:	7/14/2023 12:43 AM	
Client Contact Name:	Dale Woodall	API #:	30-015-32619	
Client Contact Phone #:	405-318-4697			
Unique Project ID		Project Owner:		
Project Reference #		Project Manager:		
Summary of Times				
Arrived at Site	7/13/2023 12:10 PM			
Departed Site	7/13/2023 3:30 PM			

Field Notes

12:37 On site. Completed JSAs and line sweep of delineation area

12:37 Collecting delineation samples

12:38 Locating and painting borehole locations for today and tomorrow

Next Steps & Recommendations

1 Continue delineation



Site Photos Viewing Direction: West Viewing Direction: West HARVARD PETROLEUM CO. LLC 877-622-3044 DEVON ENERGY PRODUCTION COMPAN BH23-06 Placard Viewing Direction: West Viewing Direction: South BH23-05 BH23-07











Daily Site Visit Signature





Client:	Devon Energy Corporation	Inspection Date:	7/14/2023
Site Location Name:	North Pure Gold 8 Federal 11	Report Run Date:	7/14/2023 11:04 PM
Client Contact Name:	Dale Woodall	API #:	30-015-32619
Client Contact Phone #:	405-318-4697		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of T	Times
Arrived at Site	7/14/2023 7:30 AM		
Departed Site	7/14/2023 4:00 PM		

Field Notes

7:52 On site. Completed safety meeting, beginning line sweep of borehole areas

7:56 Beginning sample collection at BH23-10 and BH23-11

Next Steps & Recommendations

1 Complete delineation



Site Photos Viewing Direction: West Viewing Direction: West HARVARD PETROLEUM CO. LLC 877-622-3044 DEVON ENERGY PRODUCTION COMPANY, L.P. NORTH PURE GOLD 8 FEDERAL #11 SWD SEC.08-T23S-R31E 1400' FSL & 1540' FEL EDDY COUNTY, NEW MEXICO API #30-015-32619 NMNM77046 BH23-17 Oft, 2ft Placard Viewing Direction: North Viewing Direction: West BH23-18 Oft, 2ft BH23-19 Oft, 2ft



Viewing Direction: South	Viewing Direction: West
Descriptive PHOP-13 Viewing Director: Both Descriptive PHOP-13 Viewing Director: Both Descriptive PHOP-13 Viewing Director: Both Descriptive PHOP-13 Viewing Director: Both Descriptive PHOP-13 Viewing Director: BHOP-10 Descriptive PHOP-13 Viewing Director: BHOP-10 Descriptive PHOP-13	Descriptive Photo 14 Vewing Direction: West Descriptive School 24 Vewing Direction: West Desci BH22-22 0 K, 22 Crossist 71/42/028 32:00: PM Lat 32:01 53:49, Long-103.796455
BH23-20 and 21 Oft, 2ft	BH23-22 0 ft, 2 ft
Viewing Direction: West	Viewing Direction: East
Descriptive Photo - 15 Viewing Direction: West Descriptive Photo - 15 Unable 7: Viewing Direction: West Descriptive Photo - 15 Crasted: 7: Viewing Direction: West Descriptive Photo - 15 Unable 7: Viewing Direction: West Descriptive Photo - 15 Descriptive Photo - 15 Descripti	Designative Prote-16 Weeking Direction: East Designative Prote-16 Created: 21/4/2023 (231:38 PM Created: 21/4/2023 (231:38 PM Lat:33:5387, Long-103:736255
BH23-23 Oft, 2ft	BH23-24 Oft, 2ft







Viewing Direction: East	Viewing Direction: North
Descriptive Protog. 200 Viewing Directors: East Descriptive Protog. 200 Created: 7:14/2023 0:13:S1 PM Lat:32:315613, Long:-105.7568a9	Description Price - 21 WewIng Direction: Korth Desc: BH22-29 UNI 25 Created: 7764/219 21 25 25 UNI
BH23-27 0 ft, 2ft	BH23-28 0 ft, 2ft
Viewing Direction: South	Viewing Direction: East
Descriptive Plate - 28/1 Plate Breach - 28/1 Plat	Descriptive Proto 38 Verying Directory East Desc. B122-50 0 R, 21 Created: 17/4/2023 31:8-51 PM Lat:32-31 DBBR, Long:-103.788754
BH23-29 0 ft, 2ft	BH23-30 0 ft, 2ft










Daily Site Visit Signature

Inspector: Sally Carttar	\bigcap
Signature:	Signature

Run on 7/14/2023 11:04 PM UTC

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Client:	Devon Energy Corporation	Inspection Date:	7/17/2023
Site Location Name:	North Pure Gold 8 Federal	Report Run Date:	7/17/2023 9:45 PM
Client Contact Name:	Jim Raley	API #:	30-015-32619
Client Contact Phone #:	575-748-0176		
Unique Project ID	-North Pure Gold 8 Federal 11	Project Owner:	Amanda Davis
Project Reference #	Historic Spills	Project Manager:	Dennis Williams
		Summary of	Times
Arrived at Site	7/17/2023 8:30 AM		
Departed Site	7/17/2023 2:33 PM		

Field Notes

14:24 Completed safety paperwork and initial line locator upon arrival

14:24 On site to complete horizontal delineation of release

14:25 Obtained BH23-33, 34, 35 at 0' and 2' depths.

14:26 BH23-34 was hot at surface, so stepped out to BH23-35.

14:26 BH23-33 and 35 are extents of contamination in Southeast portion of site.

14:27 All samples jarred and will be sent to lab for analysis.

Next Steps & Recommendations

1 Send samples to lab.

Create work plan for future excavation.



Site Photos Viewing Direction: North Viewing Direction: Northwest of alte near access BH23-33 on far east edge of site BH23-34 in Southeast corner of site near access road Viewing Direction: West et edgé of elte near socess rosd

BH23-35 on far Southeast edge of site near access road

Run on 7/17/2023 9:45 PM UTC



Daily Site Visit Signature

Inspector: Austin Harris

Signature

Signature:

Run on 7/17/2023 9:45 PM UTC

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Environmental Site Remediation Work Plan



Attachment 4.

.



Analytical Report

Report Summary

Client: Devon Energy - Carlsbad

Samples Received: 5/20/2019 Job Number: 19031-0001 Work Order: P905060 Project Name/Location: North Pure Gold 8 Fed 11

Report Reviewed By:

Walter Hinking

Date: 5/24/19

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. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

5796 Highway 64, Farmington, NM 87401

24 Hour Emergency Response Phone (800) 362-1879

Ph (505) 632-0615 Fx (505) 632-1865

envirotech-inc.com

Labadmin@envirotech-inc.com



Devon Energy - Carlsbad	Project Name:	North Pure Gold 8 Fed 11	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Dennis Williams	05/24/19 11:04

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TP19-01 0'	P905060-01A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
TP19-01 2'	P905060-02A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
TP19-02 0'	P905060-03A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
TP19-03 0'	P905060-04A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
TP19-03 2'	P905060-05A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
TP19-04 0'	P905060-06A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
TP19-04 2'	P905060-07A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
TP19-05 0'	P905060-08A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
TP19-05 2'	P905060-09A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
TP19-06 0'	P905060-10A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
TP19-06 2'	P905060-11A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
TP19-07 0'	P905060-12A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
TP19-07 2'	P905060-13A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
TP19-08 0'	P905060-14A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
TP19-08 2'	P905060-15A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
BH19-09 1'	P905060-16A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
BH19-10 1'	P905060-17A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
BH19-11 1'	P905060-18A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
BH19-12 1'	P905060-19A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.
TP19-02 2'	P905060-20A	Soil	05/14/19	05/20/19	Glass Jar, 4 oz.

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Devon Energy - Carlsbad	Project	t Name:	North	n Pure Gold	8 Fed 11					
6488 7 Rivers Hwy	Project	Project Number: 19031-0001						Reported:		
Artesia NM, 88210	Project	Manager:	er: Dennis Williams					05/24/19 11:04		
		TI	P19-01 0'	,						
		P9050	60-01 (So	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		99.3 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D		
Diesel Range Organics (C10-C28)	356	25.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D		
Oil Range Organics (C28-C40)	642	50.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.4 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D		
Surrogate: n-Nonane		117 %	50-	-200	1921010	05/21/19	05/21/19	EPA 8015D		
Anions by 300.0/9056A										
Chloride	1240	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A		

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Devon Energy - Carlsbad	Project	Name:	North	h Pure Gold	8 Fed 11				
6488 7 Rivers Hwy	Project	Number:	19031-0001					Reported:	
Artesia NM, 88210	Project	Manager:	Denn	nis Williams		05/24/19 11:	04		
		TI	P19-01 2	,					
		P9050	60-02 (Sa	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D	
Diesel Range Organics (C10-C28)	29.4	25.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.1 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D	
Surrogate: n-Nonane		118 %	50-	-200	1921010	05/21/19	05/21/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	294	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A	

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Devon Energy - Carlsbad	Project	Name:	North	n Pure Gold	8 Fed 11				
6488 7 Rivers Hwy	Project	Number:	19031-0001					Reported:	
Artesia NM, 88210	Project	Manager:	Denn	is Williams		05/24/19 11:	04		
		TI	P19-02 0'	,					
		P9050	60-03 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.1 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1921010	05/21/19	05/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.2 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D	
Surrogate: n-Nonane		87.1 %	50-	-200	1921010	05/21/19	05/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	2810	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A	

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Devon Energy - Carlsbad	Project	Name:	North	n Pure Gold	8 Fed 11				
6488 7 Rivers Hwy	Project	Number:	19031-0001					Reported:	
Artesia NM, 88210	Project	Manager:	Denn	Dennis Williams					04
		TI	P19-03 0'	,					
		P9050	60-04 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.0 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D	
Surrogate: n-Nonane		94.7 %	50-	-200	1921010	05/21/19	05/21/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	2520	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A	

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Devon Energy - Carlsbad	Project	Name:	North	h Pure Gold	8 Fed 11				
6488 7 Rivers Hwy	Project	Number:	1903	19031-0001				Reported:	
Artesia NM, 88210	Project	Manager:	Denr	nis Williams		05/24/19 11:	04		
		TI	P19-03 2	,					
		P9050	60-05 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.8 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.6 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D	
Surrogate: n-Nonane		119 %	50	-200	1921010	05/21/19	05/21/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	754	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A	

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Devon Energy - Carlsbad	Project	t Name:	North	n Pure Gold	8 Fed 11				
6488 7 Rivers Hwy	Project	t Number:	19031-0001					Reported:	
Artesia NM, 88210	Project	t Manager:	Denn	Dennis Williams					04
		T	P19-04 0'	,					
		P9050	60-06 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.9 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D	
Diesel Range Organics (C10-C28)	25.2	25.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.1 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D	
Surrogate: n-Nonane		117 %	50-	-200	1921010	05/21/19	05/21/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	4100	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A	

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Devon Energy - Carlsbad	Project	Name:	North	h Pure Gold	8 Fed 11					
6488 7 Rivers Hwy	Project	Number:	19031-0001					Reported:		
Artesia NM, 88210	Project	Manager:	Dennis Williams					05/24/19 11:04		
		TI	P19-04 2	,						
		P9050	60-07 (Sa	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.4 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D		
Surrogate: n-Nonane		117 %	50-	-200	1921010	05/21/19	05/21/19	EPA 8015D		
Anions by 300.0/9056A										
Chloride	93.8	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A		

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Devon Energy - Carlsbad	Project	Name:	North	h Pure Gold	8 Fed 11				
6488 7 Rivers Hwy	Project	Number:	1903	1-0001			Reported:		
Artesia NM, 88210	Project	Manager:	Denn	nis Williams		05/24/19 11:	04		
		TI	P19-05 0	,					
		P9050	60-08 (Sa	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.1 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D	
Diesel Range Organics (C10-C28)	37.7	25.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.7 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D	
Surrogate: n-Nonane		117 %	50-	-200	1921010	05/21/19	05/21/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	6650	40.0	mg/kg	2	1921013	05/21/19	05/22/19	EPA 300.0/9056A	

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Devon Energy - Carlsbad	Project	Name:	North	h Pure Gold					
6488 7 Rivers Hwy	Project	Number:	1903	1-0001				Reported:	
Artesia NM, 88210	Project	Manager:	Denr	nis Williams				05/24/19 11:	04
		TI	P19-05 2	,					
		P9050	60-09 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.7 %	50	-150	1921012	05/20/19	05/23/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.5 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D	
Surrogate: n-Nonane		116 %	50	-200	1921010	05/21/19	05/21/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	365	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A	

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Devon Energy - Carlsbad	Project	t Name:	North	n Pure Gold	8 Fed 11					
6488 7 Rivers Hwy	Project	Number:	1903	1-0001				Reported:		
Artesia NM, 88210	Project	Manager:	Denn	is Williams				05/24/19 11:	04	
		TI	P19-06 0'	1						
		P9050	60-10 (Sa	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.2 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D		
Surrogate: n-Nonane		116 %	50-	-200	1921010	05/21/19	05/21/19	EPA 8015D		
Anions by 300.0/9056A										
Chloride	1440	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A		

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Devon Energy - Carlsbad	Project	Name:	North	n Pure Gold	8 Fed 11					
6488 7 Rivers Hwy	Project	Number:	1903	1-0001				Reported:		
Artesia NM, 88210	Project	Manager:	Denn	is Williams				05/24/19 11:	04	
		TI	P19-06 2'	,						
		P9050	60-11 (So	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		97.8 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.0 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D		
Surrogate: n-Nonane		116 %	50-	-200	1921010	05/21/19	05/21/19	EPA 8015D		
Anions by 300.0/9056A										
Chloride	1410	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A		

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Devon Energy - Carlsbad	Project	t Name:	North	n Pure Gold	8 Fed 11				
6488 7 Rivers Hwy	Project	Number:	1903	1-0001				Reported:	
Artesia NM, 88210	Project	Manager:	Denn	is Williams				05/24/19 11:	04
		TI	P19-07 0'	,					
			60-12 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.7 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D	
Diesel Range Organics (C10-C28)	36.9	25.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.8 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D	
Surrogate: n-Nonane		115 %	50-	-200	1921010	05/21/19	05/21/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1980	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A	

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Devon Energy - Carlsbad	Project	t Name:	North	n Pure Gold					
6488 7 Rivers Hwy	Project	t Number:	1903	1-0001				Reported:	
Artesia NM, 88210	Project	t Manager:	Denn	is Williams				05/24/19 11:	04
		TI	P19-07 2	,					
			60-13 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/21/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.5 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D	
Surrogate: n-Nonane		118 %	50-	-200	1921010	05/21/19	05/21/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	634	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A	

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Devon Energy - Carlsbad	Project	t Name:	North	h Pure Gold	8 Fed 11				
6488 7 Rivers Hwy	Project	t Number:	1903	1-0001				Reported:	
Artesia NM, 88210	Project	t Manager:	Denr	nis Williams				05/24/19 11:	04
		T	P19-08 0	,					
		P9050	60-14 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1921010	05/21/19	05/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.0 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D	
Surrogate: n-Nonane		113 %	50	-200	1921010	05/21/19	05/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	16600	100	mg/kg	5	1921013	05/21/19	05/22/19	EPA 300.0/9056A	

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Devon Energy - Carlsbad	Project	t Name:	North	n Pure Gold					
6488 7 Rivers Hwy	Project	Number:	1903	1-0001				Reported:	
Artesia NM, 88210	Project	Manager:	Denn	is Williams				05/24/19 11:	04
		TI	P19-08 2	,					
		P9050	60-15 (Sa	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1921010	05/21/19	05/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.4 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D	
Surrogate: n-Nonane		111 %	50-	-200	1921010	05/21/19	05/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	54.4	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A	

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Devon Energy - Carlsbad	Project	Name:	North	h Pure Gold	8 Fed 11				
6488 7 Rivers Hwy	Project	Number:	1903	1-0001				Reported:	
Artesia NM, 88210	Project	Manager:	Denn	nis Williams				05/24/19 11:	04
		BI	119-09 1	•					
		P9050	60-16 (Sa	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D	
Diesel Range Organics (C10-C28)	225	25.0	mg/kg	1	1921010	05/21/19	05/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	383	50.0	mg/kg	1	1921010	05/21/19	05/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.7 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D	
Surrogate: n-Nonane		122 %	50-	-200	1921010	05/21/19	05/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1230	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A	

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Devon Energy - Carlsbad	Project	Name:	North	h Pure Gold					
6488 7 Rivers Hwy	Project	Number:	1903	1-0001				Reported:	
Artesia NM, 88210	Project	Manager:	Denr	nis Williams				05/24/19 11:	04
		BI	H19-10 1	•					
		P9050	60-17 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.6 %	50	-150	1921012	05/20/19	05/23/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1921010	05/21/19	05/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		<i>99.7 %</i>	50	-150	1921012	05/20/19	05/23/19	EPA 8015D	
Surrogate: n-Nonane		124 %	50-	-200	1921010	05/21/19	05/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1960	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A	

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Devon Energy - Carlsbad	Project	Name:	North	h Pure Gold	8 Fed 11					
6488 7 Rivers Hwy	Project	Number:	1903	1-0001				Reported:		
Artesia NM, 88210	Project	Manager:	Denn	nis Williams				05/24/19 11:	04	
		BI	H19-11 1	•						
		P9050	60-18 (Sa	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		98.3 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1921010	05/21/19	05/22/19	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/22/19	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.3 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D		
Surrogate: n-Nonane		119 %	50-	-200	1921010	05/21/19	05/22/19	EPA 8015D		
Anions by 300.0/9056A										
Chloride	3880	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A		

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Devon Energy - Carlsbad	Project	t Name:	North	h Pure Gold	8 Fed 11					
6488 7 Rivers Hwy	Project	Number:	1903	1-0001				Reported:		
Artesia NM, 88210	Project	Manager:	Denn	nis Williams				05/24/19 11:	04	
		BI	H19-12 1	•						
		P9050	60-19 (Sa	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1921010	05/21/19	05/22/19	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/22/19	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.8 %	50-	-150	1921012	05/20/19	05/23/19	EPA 8015D		
Surrogate: n-Nonane		117 %	50-	-200	1921010	05/21/19	05/22/19	EPA 8015D		
Anions by 300.0/9056A										
Chloride	4310	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A		

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Devon Energy - Carlsbad	Project	t Name:	North	n Pure Gold	8 Fed 11				
6488 7 Rivers Hwy	Project	Number:	1903	1-0001				Reported:	
Artesia NM, 88210	Project	Manager:	Denn	is Williams				05/24/19 11:	04
		TI	P19-02 2'						
		P9050	60-20 (So	lid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %	50-	150	1921012	05/20/19	05/23/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1921012	05/20/19	05/23/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1921010	05/21/19	05/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1921010	05/21/19	05/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.2 %	50-	150	1921012	05/20/19	05/23/19	EPA 8015D	
Surrogate: n-Nonane		120 %	50-	200	1921010	05/21/19	05/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	176	20.0	mg/kg	1	1921013	05/21/19	05/22/19	EPA 300.0/9056A	

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Devon Energy - Carlsbad	Project Name:	North Pure Gold 8 Fed 11	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Dennis Williams	05/24/19 11:04

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

			v		v					
A 17		Reporting	TT '4	Spike	Source	MARC	%REC	DDD	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1921012 - Purge and Trap EPA 5030A										
Blank (1921012-BLK1)				Prepared: (05/20/19 1 A	Analyzed: ()5/23/19 2			
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	8.00		"	8.00		100	50-150			
LCS (1921012-BS1)				Prepared: (05/20/19 1 4	Analyzed: ()5/23/19 2			
Benzene	4.55	0.0250	mg/kg	5.00		91.0	70-130			
Toluene	4.93	0.0250	"	5.00		98.6	70-130			
Ethylbenzene	4.90	0.0250	"	5.00		98.1	70-130			
p,m-Xylene	10.1	0.0500	"	10.0		101	70-130			
o-Xylene	4.90	0.0250	"	5.00		98.1	70-130			
Total Xylenes	15.0	0.0250	"	15.0		99.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.03		"	8.00		100	50-150			
Matrix Spike (1921012-MS1)	Sou	rce: P905060-	-01	Prepared: (05/20/19 1 4	Analyzed: (05/24/19 0			
Benzene	4.53	0.0250	mg/kg	5.00	ND	90.5	54.3-133			
Toluene	4.91	0.0250	"	5.00	ND	98.2	61.4-130			
Ethylbenzene	4.89	0.0250	"	5.00	ND	97.7	61.4-133			
p,m-Xylene	10.0	0.0500	"	10.0	ND	100	63.3-131			
o-Xylene	4.86	0.0250	"	5.00	ND	97.3	63.3-131			
Total Xylenes	14.9	0.0250	"	15.0	ND	99.3	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7.99		"	8.00		99.8	50-150			
Matrix Spike Dup (1921012-MSD1)	Sou	rce: P905060-	-01	Prepared: ()5/20/19 1 A	Analyzed: (05/24/19 0			
Benzene	4.65	0.0250	mg/kg	5.00	ND	93.1	54.3-133	2.75	20	
Toluene	5.05	0.0250	"	5.00	ND	101	61.4-130	2.72	20	
Ethylbenzene	5.02	0.0250	"	5.00	ND	100	61.4-133	2.76	20	
p,m-Xylene	10.3	0.0500	"	10.0	ND	103	63.3-131	2.70	20	
o-Xylene	5.00	0.0250	"	5.00	ND	100	63.3-131	2.77	20	
Total Xylenes	15.3	0.0250	"	15.0	ND	102	63.3-131	2.72	20	
Surrogate: 4-Bromochlorobenzene-PID	8.01		"	8.00		100	50-150			

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Devon Energy - Carlsbad	Project Name:	North Pure Gold 8 Fed 11	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Dennis Williams	05/24/19 11:04

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1921010 - DRO Extraction EPA 3570										
Blank (1921010-BLK1)				Prepared: ()5/20/19 1 A	Analyzed: 0	5/21/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	56.2		"	50.0		112	50-200			
LCS (1921010-BS1)				Prepared: ()5/20/19 1 A	Analyzed: 0	5/21/19 1			
Diesel Range Organics (C10-C28)	480	25.0	mg/kg	500		95.9	38-132			
Surrogate: n-Nonane	57.4		"	50.0		115	50-200			
Matrix Spike (1921010-MS1)	Sou	rce: P905060-	01	Prepared: ()5/20/19 1 A	Analyzed: 0	5/21/19 1			
Diesel Range Organics (C10-C28)	697	25.0	mg/kg	500	356	68.2	38-132			
Surrogate: n-Nonane	59.7		"	50.0		119	50-200			
Matrix Spike Dup (1921010-MSD1)	Sou	rce: P905060-	01	Prepared: ()5/20/19 1 A	Analyzed: 0	5/21/19 1			
Diesel Range Organics (C10-C28)	654	25.0	mg/kg	500	356	59.5	38-132	6.46	20	
Surrogate: n-Nonane	60.2		"	50.0		120	50-200			

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Devon Energy - Carlsbad	Project Name:	North Pure Gold 8 Fed 11	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Dennis Williams	05/24/19 11:04

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

	Reporting		Spike	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Prepared: (05/20/19 1 A	Analyzed: 0	5/23/19 2			
ND	20.0	mg/kg							
7.76		"	8.00		97.0	50-150			
			Prepared: ()5/20/19 1 A	Analyzed: 0	5/23/19 2			
52.4	20.0	mg/kg	50.0		105	70-130			
7.91		"	8.00		98.9	50-150			
Sour	ce: P905060-	01	Prepared: ()5/20/19 1 A	Analyzed: 0	5/24/19 0			
53.3	20.0	mg/kg	50.0	ND	107	70-130			
7.85		"	8.00		98.1	50-150			
Sour	ce: P905060-	01	Prepared: (05/20/19 1 A	Analyzed: 0	5/24/19 0			
52.8	20.0	mg/kg	50.0	ND	106	70-130	1.04	20	
7.90		"	8.00		98.7	50-150			
	ND 7.76 52.4 7.91 Sour 53.3 7.85 Sour 52.8	Result Limit ND 20.0 7.76	Result Limit Units ND 20.0 mg/kg 7.76 " 52.4 20.0 mg/kg 7.91 " 53.3 20.0 mg/kg 7.85 " Source: P905060-01 " 52.8 20.0 mg/kg	Result Limit Units Level ND 20.0 mg/kg Prepared: 0 7.76 " 8.00 7.76 " 8.00 52.4 20.0 mg/kg 50.0 52.4 20.0 mg/kg 50.0 7.91 " 8.00 Source: P905060-01 Prepared: 0 53.3 20.0 mg/kg 50.0 7.85 " Source: P905060-01 Prepared: 0 52.8 20.0 mg/kg	Result Limit Units Level Result Result Limit Units Level Result ND 20.0 mg/kg Prepared: 05/20/19 1 A ND 20.0 mg/kg Prepared: 05/20/19 1 A 52.4 20.0 mg/kg 50.0 7.91 " 8.00 Prepared: 05/20/19 1 A 53.3 20.0 mg/kg 50.0 ND 7.85 " 8.00 ND 10 52.8 20.0 mg/kg 50.0 ND	Result Limit Units Level Result %REC Result Limit Units Level Result %REC ND 20.0 mg/kg Prepared: 05/20/19 1 Analyzed: 0 ND 20.0 mg/kg 97.0 7.76 " 8.00 97.0 52.4 20.0 mg/kg 50.0 105 7.91 " 8.00 98.9 98.9 Source: P905060-01 Prepared: 05/20/19 1 Analyzed: 0 98.1 53.3 20.0 mg/kg 50.0 ND 107 7.85 " 8.00 98.1 98.1 Source: P905060-01 Prepared: 05/20/19 1 Analyzed: 0 98.1 52.8 20.0 mg/kg 50.0 ND 106	Result Limit Units Level Result %REC Limits Result Limit Units Level Result %REC Limits Result Prepared: 05/20/19 1 Analyzed: 05/23/19 2 Prepared: 05/20/19 1 Analyzed: 05/23/19 2 ND 20.0 mg/kg 7.76 " 8.00 97.0 50-150 7.76 " 8.00 97.0 50-150 52.4 20.0 mg/kg 50.0 105 70-130 7.91 " 8.00 98.9 50-150 Source: P905060-01 Prepared: 05/20/19 1 Analyzed: 05/24/19 0 53.3 20.0 mg/kg 50.0 ND 107 70-130 7.85 " 8.00 98.1 50-150 50-150 50-150 Source: P905060-01 Prepared: 05/20/19 1 Analyzed: 05/24/19 0 52.8 20.0 mg/kg 50.0 ND 106 70-130	Result Limit Units Level Result %REC Limits RPD Result Limit Units Level Result %REC Limits RPD Result Virts Prepared: $05/20/19$ l Analyzed: $05/23/19$ 2 Virts Prepared: $05/20/19$ l Analyzed: $05/23/19$ 2 ND 20.0 mg/kg S0.0 97.0 $50-150$ 7.76 " 8.00 97.0 $50-150$ 52.4 20.0 mg/kg S0.0 105 $70-130$ 7.91 " 8.00 98.9 $50-150$ Source: P905060-01 Prepared: $05/20/19$ l Analyzed: $05/24/19$ 0 107 $70-130$ 53.3 20.0 mg/kg 50.0 ND 107 $70-130$ 7.85 " 8.00 98.1 $50-150$ $50-150$ Source: P905060-01 Prepared: $05/20/19$ l Analyzed: $05/24/19$ 0 52.8 20.0 mg/kg 50.0 ND 106 $70-130$	Result Limit Units Level Result %REC Limits RPD Limit Result Units Level Result %REC Limits RPD Limit Result Prepared: 05/20/19 1 Analyzed: 05/23/19 2 Image: 05/23/19 2 Image: 05/23/19 2 Image: 05/23/19 2 Image: 05/20/19 1 Analyzed: 05/24/19 0 Image: 05/24/19

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Devon Energy - Carlsbad	Pro	ject Name:	N	orth Pure Gol	d 8 Fed 11					
6488 7 Rivers Hwy	Pro	ject Number:	1	9031-0001					Report	ed:
Artesia NM, 88210	Pro	ject Manager:	D	ennis William	ıs				05/24/19	11:04
	Ani	ons by 300.()/9056A	- Quality	Control					
	E	nvirotech A	Analyti	cal Labor	atory					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1921013 - Anion Extraction EPA 300.0/9056A

				D 1 (5/01/10 0		2/21/10 2			
Blank (1921013-BLK1)				Prepared: (05/21/19 0 A	Analyzed: (05/21/19/2			
Chloride	ND	20.0	mg/kg							
LCS (1921013-BS1)				Prepared: (5/21/19 0 A	Analyzed: ()5/21/19 2			
Chloride	270	20.0	mg/kg	250		108	90-110			
Matrix Spike (1921013-MS1)	Source	: P905060-	01	Prepared: (5/21/19 0 A	Analyzed: (05/22/19 0			
Chloride	1670	20.0	mg/kg	250	1240	172	80-120			SPK1
Matrix Spike Dup (1921013-MSD1)	Source	: P905060-	01	Prepared: (5/21/19 0 A	Analyzed: (05/22/19 0			
Chloride	1600	20.0	mg/kg	250	1240	142	80-120	4.60	20	SPK1

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Devon Energy - Carlsbad	Project Name:	North Pure Gold 8 Fed 11	
6488 7 Rivers Hwy	Project Number:	19031-0001	Reported:
Artesia NM, 88210	Project Manager:	Dennis Williams	05/24/19 11:04

Notes and Definitions

SPK1	The spike recovery is outside of quality control limits.
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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Project	Informa	tion			1.00		Ch	nain of Cus	tody						• Million		Contraction of			Pa	ige L	of 4
Client: C			y 8 Fed	11	-	D	Report Atte	ention		1 -1 -1				e On	and the second second	Janu			AT 3D	RCRA	PA Progr	the second s
			Willa		-	The local diversion of	ttention:				WO#			190				JU	50	KCKA		SDWA
			ers Itw				ddress:				0/	00	and it is not a lot of the lot of	nalys	the second s		and the second se	d			St	ate
City, Stat				\$822	7	55 at 1	ity, State, Zip			15	15											UTAZ
Phone:	505-	350-1	336			P	hone:			y 8015	y 8015	11	0		0.0	GRO,	11-19					
Email: Pe	erntanle	Vertex	.ca		_	E	mail:			RO b	RO b	y 8021	, 826	601(le 30	40	36					
Time Sampled	Date Sampled	Matrix	No Containers	Sample II	C			2.11.12 J	Lab Number	DRO/ORO	GRO/DRO by	BTEX by	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1 GP					Rer	narks
10:00	5-17-19	5	1	TP19-	01 (3`						Х			X	X						
10:05	5-14-19	5	1	TPIQ-	01 2	2'			2			X			X	X						
10:10	5-14-19	5	l	TPI9 -	OZ	0'			3			X			X	X						
10:15	5-14-19	5	1	TP19-	03	0`			4			X			K	X						
10:20	5-14-19	5	l	TPIQ-	03	Ζ'			5			X			X	X						
10:25	5-1449	5	(TP19-	04 -	0'			6			K			X	X						
10:30	5-14-19	5	1	TP19-	04	Zʻ			7			X			X	X						
10:35	5-14-19	5	(TP19-	05	0`			8			X			X	X						
10:40	5-14-14	5	<u> </u>	TP 19.	- @	05	z		9			X			X	X						
10:45	5-14-19	9	l	TP1a-	06	Ő			10			X			X	X						
Addition	al Instru	ctions:	B:11	Vert	- 10	Per	-Churt Som															
		-		-			at tampering with by intentionally m	islabelling the sa	ample location	, date o	r		1								ce the day they : °C on subsequer	
time of collec					Time		Received by: (Signature)	5 4	Date 5 · 16 ·		Time	- '25	ian	Rece	iver	loni	ice.		b Us V /	e Only		
Relinquishe	ed by: (Sigr	ature)	Date	20/19	Time)0	Received by: (Signature)	1A	Date 5/20/1	9	Time	0		T1 AVG	A CAL	120		4			<u>T3</u>	
Sample Mat	rix: S - Soil, !	6d - Solid, S	g - Sludge, A	- Aqueous,	O - Othe	r		p	Containe	г Тур	e: g -	glass	, p -	poly/	plast	ic, ag	; - an	nber	glass	, v - VOA		
							er arrangements are made. Ha h this COC. The liability of the									client	expe	nse. T	The rep	ort for the	analysis of	the above
1	en	vii	rot	ec	h		5796 US Highway 64,	Contraction of the second second						5) 632-06	-	-						envirotech-luc.com
		Analyi	ical Lo	borato	ory		Three Springs • 65 Me	rcado Street, Suite 1	15, Durango, CO 8	1301			Ph (97	0) 259-06	15 Fr	(800) 362	2-1879					ge 28 of 2

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Page 71 of 248

Project Informati	on					Chain of Cu	stody											F	age	2	 am
Client: Devon E		1105	1 11	-	Desident	Report Attention					b Us			1							
Project: North P.				and the second se	Si 18	due by:		Lab	WO#	‡			Num			1D	30	RCRA	4	CWA	SDWA
Project Manager: Address: 6488				Contraction of the	Attentio			P	10	20					* * * * *				_	C+-	ate
City, State, Zip A			8822		Address			<u> </u>		1		naly	sis an	id Me	thoc	1 	1				UT AZ
Phone: 505-35			DACC	7	City, Sta Phone:		-	8015	8015						.1				-		UT AZ
Email: Permitan (-	Email:			<u>ک</u>		8021	260	10	300.0		20						
Time Date	1			-	cmail.	N 5 MM MM MARKS	Lab	N N	DRC	ρλ 8	by 8	ls 60	ide	t18.	00				-		L
Sampled Sampled	Matrix	No Containers	Sample ID)			Number	DRO/ORO	GRO/DRO by	втех by	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1	Š					Ren	narks
10:50 5-14-19	5	(TP 19	-06	2'		11								X						
0:55 5-14-19	5	(TPK-	07	0'		12								X						
11:00 5-14-19	S	l	TPIQ	-07	2'		13								X						
11:05 5-14-19		l	TP 19 -	- 08	0°		14														
11:10 5-14-19		. (TP 19 -	- 08	Zʻ		15														
11:15 5-14-19		(BH19-	- 09	ľ		16												8		
11:20 5-14-19		(BH19-	- (0	1		17														
11:25 5-14-19		1	B1+19	- []	ľ		18														
11:30 5-14-19		[BH19	- 12			19														
5-14-19	5	1	TP19-	02 6	<i>)</i> ,	Per Client 5 AD/19	20														
Additional Instruc	tions:	Bill	Vecte																		
I, (field sampler), attest to the time of collection is consider						ing with or intentionally mistabelling the s	ample location	n, date c	or											e day they a subsequen	re sampled or : days.
Relinguished by: (Signa	ature)	Date 5-1	6-2019	Fime 25	Rece	eived by: (Signature)	Date 5 - 16 -		Time 8	25	20m	Rece	eived	l on i	Ge:	Lat		e Only N			and the second
Relinguished by: (Signa	ature)	Date 5/2	0/19	110 C	Reee	eived by: (Signature)	Date 5/20/	119	Time	$\frac{1}{2}$	<u> </u>	T1	1000	np °C	14	T2			_ <u>I</u>	3	
Sample Matrix: S - Soil, So	d - Solid, Sg	; - Sludge, A	- Aqueous, C	O - Other	-q	<i>W</i>	Containe	r Typ	e: g -	glass	, p -	poly/	'plast	ic, ag	- am	nber g	glass,	v - VO	A		
Note: Samples are discard	ded 30 days	s after resul	ts are reporte	ed unless o		ements are made. Hazardous samp DC. The liability of the laboraotry is								client	exper	nse. Th	ne rep	ort for t	he an	alysis of t	he above
			ecl			5796 US Highway 64, Farmington, NM 87					_			(505) 632							nvirotech-inc.com
	analyti	ical La	Iborato	ry		Three Springs • 65 Mercado Street, Suite	115, Durango, CO 8	1301			Ph (97	0) 259-0	615 Fr	(800) 362	-1879					III COLORED OF THE	ge 29 of 2

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Received by OCD: 5/14/2025 2:04:25 PM

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September 13, 2021

Wesley Mathews Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

RE: North Pure Gold 8 Fed 11

OrderNo.: 2108E74

Dear Wesley Mathews:

Hall Environmental Analysis Laboratory received 9 sample(s) on 8/26/2021 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 02, 2021.

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: Devon Energy

North Pure Gold 8 Fed 11

2108E74-001

Project:

Lab ID:

Analytical Report
Lab Order 2108E74

Date Reported: 9/13/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-01 0.5 Collection Date: 8/24/2021 8:25:00 AM Matrix: SOIL Received Date: 8/26/2021 7:30:00 AM Result RL Qual Units DF Date Analyzed

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/30/2021 6:28:09 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/30/2021 6:28:09 PM
Surr: DNOP	103	70-130	%Rec	1	8/30/2021 6:28:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/30/2021 4:34:41 PM
Surr: BFB	108	70-130	%Rec	1	8/30/2021 4:34:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	8/30/2021 4:34:41 PM
Toluene	ND	0.050	mg/Kg	1	8/30/2021 4:34:41 PM
Ethylbenzene	ND	0.050	mg/Kg	1	8/30/2021 4:34:41 PM
Xylenes, Total	ND	0.10	mg/Kg	1	8/30/2021 4:34:41 PM
Surr: 4-Bromofluorobenzene	99.3	70-130	%Rec	1	8/30/2021 4:34:41 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	8/30/2021 9:04:11 PM

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

Qualifiers:

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

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

Page 1 of 12

Analytical Report Lab Order 2108E74

Date Reported: 9/13/2021

8/31/2021 8:18:57 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH21-03 0.5 **Project:** North Pure Gold 8 Fed 11 Collection Date: 8/24/2021 9:30:00 AM Lab ID: 2108E74-002 Matrix: SOIL Received Date: 8/26/2021 7:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 8/28/2021 10:33:43 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/28/2021 10:33:43 AM Surr: DNOP 121 70-130 %Rec 1 8/28/2021 10:33:43 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 8/30/2021 4:58:34 PM 4.8 mg/Kg 1 Surr: BFB 109 70-130 %Rec 1 8/30/2021 4:58:34 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 8/30/2021 4:58:34 PM 1 Toluene ND 0.048 mg/Kg 1 8/30/2021 4:58:34 PM Ethylbenzene ND 0.048 mg/Kg 1 8/30/2021 4:58:34 PM Xylenes, Total ND 0.097 mg/Kg 1 8/30/2021 4:58:34 PM Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 8/30/2021 4:58:34 PM Analyst: VP **EPA METHOD 300.0: ANIONS**

8900

300

ma/Ka

100

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

Qualifiers:

Chloride

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

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

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Analytical Report Lab Order 2108E74

Date Reported: 9/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH21-04 0.5 **Project:** North Pure Gold 8 Fed 11 Collection Date: 8/24/2021 11:00:00 AM Lab ID: 2108E74-003 Matrix: SOIL Received Date: 8/26/2021 7:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 16 9.3 mg/Kg 1 8/28/2021 10:57:33 AM Motor Oil Range Organics (MRO) 84 46 mg/Kg 1 8/28/2021 10:57:33 AM Surr: DNOP 126 70-130 %Rec 1 8/28/2021 10:57:33 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 8/30/2021 5:22:24 PM 4.6 mg/Kg 1 Surr: BFB 109 70-130 %Rec 1 8/30/2021 5:22:24 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB 8/30/2021 5:22:24 PM Benzene ND 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 8/30/2021 5:22:24 PM Ethylbenzene ND 0.046 mg/Kg 1 8/30/2021 5:22:24 PM Xylenes, Total ND 0.092 mg/Kg 1 8/30/2021 5:22:24 PM 8/30/2021 5:22:24 PM Surr: 4-Bromofluorobenzene 99.6 70-130 %Rec 1 Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride 3500 150 8/31/2021 8:31:21 AM ma/Ka 50

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 MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Lab ID:

Analyses

Surr: DNOP

Analytical Report Lab Order 2108E74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/13/2021 **CLIENT:** Devon Energy Client Sample ID: BH21-03 2' North Pure Gold 8 Fed 11 Collection Date: 8/24/2021 11:05:00 AM 2108E74-004 Matrix: SOIL Received Date: 8/26/2021 7:30:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB **Diesel Range Organics (DRO)** 8/28/2021 11:21:24 AM ND 9.9 mg/Kg 1 Motor Oil Range Organics (MRO) ND 8/28/2021 11:21:24 AM 49 mg/Kg 1 125 70-130 %Rec 1 8/28/2021 11:21:24 AM **FPA METHOD 8015D: GASOLINE RANGE** Analvst: NSB

EPA METHOD 6015D: GASOLINE RANGE					Analyst. NSD
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/30/2021 5:46:19 PM
Surr: BFB	109	70-130	%Rec	1	8/30/2021 5:46:19 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	8/30/2021 5:46:19 PM
Toluene	ND	0.049	mg/Kg	1	8/30/2021 5:46:19 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/30/2021 5:46:19 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/30/2021 5:46:19 PM
Surr: 4-Bromofluorobenzene	99.7	70-130	%Rec	1	8/30/2021 5:46:19 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	1200	60	mg/Kg	20	8/30/2021 10:06:14 PM

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

Qualifiers:

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

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

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Lab ID:

Analyses

Surr: DNOP

Analytical Report Lab Order 2108E74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/13/2021 **CLIENT:** Devon Energy Client Sample ID: BH21-04 2' North Pure Gold 8 Fed 11 Collection Date: 8/24/2021 11:15:00 AM 2108E74-005 Matrix: SOIL Received Date: 8/26/2021 7:30:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB **Diesel Range Organics (DRO)** 890 99 mg/Kg 10 8/28/2021 11:45:13 AM Motor Oil Range Organics (MRO) 2600 500 mg/Kg 10 8/28/2021 11:45:13 AM 0 70-130 S %Rec 10 8/28/2021 11:45:13 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB

Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/30/2021 10:31:02 PM
Surr: BFB	104	70-130	%Rec	1	8/30/2021 10:31:02 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	8/30/2021 10:31:02 PM
Toluene	ND	0.050	mg/Kg	1	8/30/2021 10:31:02 PM
Ethylbenzene	ND	0.050	mg/Kg	1	8/30/2021 10:31:02 PM
Xylenes, Total	ND	0.10	mg/Kg	1	8/30/2021 10:31:02 PM
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	8/30/2021 10:31:02 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	410	60	mg/Kg	20	8/30/2021 10:18:38 PM

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix Н Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit PQL

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

в Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 5 of 12

CLIENT: Devon Energy

Project: North Pure Gold 8 Fed 11

Analytical Report Lab Order 2108E74

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/13/2021 Client Sample ID: BH21-04 4' Collection Date: 8/24/2021 11:20:00 AM **Descrived Deter** 8/26/2021 7:20:00 AM

Lab ID: 2108E74-006	Matrix: SOIL	Re	Received Date: 8/26/2021 7:30:00 AM						
Analyses	Result	RL (Qual	Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst: SB			
Diesel Range Organics (DRO)	47	9.1	н	mg/Kg	1	9/9/2021 7:25:05 PM			
Motor Oil Range Organics (MRO)	180	46	н	mg/Kg	1	9/9/2021 7:25:05 PM			
Surr: DNOP	103	70-130	Н	%Rec	1	9/9/2021 7:25:05 PM			
EPA METHOD 8015D: GASOLINE RAM	NGE					Analyst: NSB			
Gasoline Range Organics (GRO)	ND	4.9	н	mg/Kg	1	9/9/2021 3:52:07 PM			
Surr: BFB	102	70-130	Н	%Rec	1	9/9/2021 3:52:07 PM			
EPA METHOD 8021B: VOLATILES						Analyst: NSB			
Benzene	ND	0.025	н	mg/Kg	1	9/9/2021 3:52:07 PM			
Toluene	ND	0.049	н	mg/Kg	1	9/9/2021 3:52:07 PM			
Ethylbenzene	ND	0.049	н	mg/Kg	1	9/9/2021 3:52:07 PM			
Xylenes, Total	ND	0.098	н	mg/Kg	1	9/9/2021 3:52:07 PM			
Surr: 4-Bromofluorobenzene	91.5	70-130	Н	%Rec	1	9/9/2021 3:52:07 PM			
EPA METHOD 300.0: ANIONS						Analyst: VP			
Chloride	370	60		mg/Kg	20	9/8/2021 10:12:14 PM			

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

Qualifiers:

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

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

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Result

PQL

C		ntal Analysis		ory, Inc.				WO#:	2108E74 13-Sep-21
Client: Project:		n Energy 1 Pure Gold 8 Fed 1	1						
Sample ID: MB	-62268	SampType:	MBLK	TestCoo	e: EPA Method	d 300.0: Anion	S		
Client ID: PB	S	Batch ID:	62268	RunN	o: 80882				
Prep Date: 8/	30/2021	Analysis Date:	8/30/2021	SeqN	o: 2855267	Units: mg/K	g		
Analyte		Result PQ	L SPK value	SPK Ref Val %	EC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1	.5						
Sample ID: LC	S-62268	SampType:	LCS	TestCoo	e: EPA Method	d 300.0: Anion	S		
Client ID: LC	SS	Batch ID:	62268	RunN	o: 80882				
Prep Date: 8/	30/2021	Analysis Date:	8/30/2021	SeqN	o: 2855268	Units: mg/K	g		

Chloride	14	1.5	15.00	0	93.6	90	110			
Sample ID: MB-62447	SampT	ype: MI	BLK	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: PBS	Batch	n ID: 62	447	F	RunNo: 8 1	1123				
Prep Date: 9/8/2021	Analysis D	ate: 9/	8/2021	S	SeqNo: 28	363436	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sample ID: LCS-62447	SampT	ype: LC	s	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: LCSS	Batch	n ID: 62	447	F	RunNo: 8 1	1123				
Prep Date: 9/8/2021	Analysis D	ate: 9/	8/2021	S	SeqNo: 28	363437	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

SPK value SPK Ref Val %REC LowLimit

Qualifiers:

Analyte

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

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

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%RPD

HighLimit

RPDLimit

Qual

QC SUMMARY REPORT Hall I

	WO#:	2108E74
Environmental Analysis Laboratory, Inc.		13-Sep-21

Client: Devon	Energy						
Project: North F	Pure Gold 8 Fed 11						
Sample ID: MB-62246	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 62246	RunNo: 80889					
Prep Date: 8/27/2021	Analysis Date: 8/28/2021	SeqNo: 2854737	Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLim	it Qual			
Diesel Range Organics (DRO)	ND 10						
Motor Oil Range Organics (MRO)	ND 50						
Surr: DNOP	13 10.00	128 70	130				
Sample ID: LCS-62246	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organic	s			
Client ID: LCSS	Batch ID: 62246	RunNo: 80889					
Prep Date: 8/27/2021	Analysis Date: 8/28/2021	SeqNo: 2854738	Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLim	it Qual			
Diesel Range Organics (DRO)	46 10 50.00	0 92.4 68.9	141				
Surr: DNOP	5.0 5.000	101 70	130				
Sample ID: LCS-62465	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organic	s			
Client ID: LCSS	Batch ID: 62465	RunNo: 81156					
Prep Date: 9/8/2021	Analysis Date: 9/9/2021	SeqNo: 2864692	Units: %Rec				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLim	it Qual			
Surr: DNOP	4.3 5.000	86.2 70	130				
Sample ID: MB-62465	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organic	s			
Client ID: PBS	Batch ID: 62465	RunNo: 81156					
Prep Date: 9/8/2021	Analysis Date: 9/9/2021	SeqNo: 2864694	Units: %Rec				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLim				
Surr: DNOP				it Qual			
	14 10.00	135 70	130	it Qual S			
Sample ID: LCS-62445	14 10.00 SampType: LCS		•	S			
			130	S			
Sample ID: LCS-62445	SampType: LCS	TestCode: EPA Method	130	S			
Sample ID: LCS-62445 Client ID: LCSS	SampType: LCS Batch ID: 62445 Analysis Date: 9/9/2021	TestCode: EPA Method RunNo: 81156	130 8015M/D: Diesel Range Organic	S s			
Sample ID: LCS-62445 Client ID: LCSS Prep Date: 9/8/2021	SampType: LCS Batch ID: 62445 Analysis Date: 9/9/2021	TestCode: EPA Method RunNo: 81156 SeqNo: 2865704	130 8015M/D: Diesel Range Organic Units: mg/Kg	S s			
Sample ID: LCS-62445 Client ID: LCSS Prep Date: 9/8/2021 Analyte	SampType: LCS Batch ID: 62445 Analysis Date: 9/9/2021 Result PQL SPK value	TestCode: EPA Method RunNo: 81156 SeqNo: 2865704 SPK Ref Val %REC LowLimit	130 8015M/D: Diesel Range Organic Units: mg/Kg HighLimit %RPD RPDLim	S s			
Sample ID: LCS-62445 Client ID: LCSS Prep Date: 9/8/2021 Analyte Diesel Range Organics (DRO)	SampType: LCS Batch ID: 62445 Analysis Date: 9/9/2021 Result PQL SPK value 42 10 50.00	TestCode: EPA Method RunNo: 81156 SeqNo: 2865704 SPK Ref Val %REC LowLimit 0 84.3 68.9 72.6 70	130 8015M/D: Diesel Range Organic Units: mg/Kg <u>HighLimit %RPD RPDLim</u> 135	S s it Qual			
Sample ID: LCS-62445 Client ID: LCSS Prep Date: 9/8/2021 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-62457	SampType: LCS Batch ID: 62445 Analysis Date: 9/9/2021 Result PQL SPK value 42 10 50.00 3.6 5.000	TestCode: EPA Method RunNo: 81156 SeqNo: 2865704 SPK Ref Val %REC LowLimit 0 84.3 68.9 72.6 70	130 8015M/D: Diesel Range Organic Units: mg/Kg HighLimit %RPD RPDLim 135 130	S s it Qual			
Sample ID: LCS-62445 Client ID: LCSS Prep Date: 9/8/2021 Analyte Diesel Range Organics (DRO) Surr: DNOP	SampType: LCS Batch ID: 62445 Analysis Date: 9/9/2021 Result PQL SPK value 42 10 50.00 3.6 5.000 SampType: LCS	TestCode: EPA Method RunNo: 81156 SeqNo: 2865704 SPK Ref Val %REC LowLimit 0 84.3 68.9 72.6 70	130 8015M/D: Diesel Range Organic Units: mg/Kg HighLimit %RPD RPDLim 135 130	S s it Qual			
Sample ID: LCS-62445 Client ID: LCSS Prep Date: 9/8/2021 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-62457 Client ID: LCSS	SampType: LCS Batch ID: 62445 Analysis Date: 9/9/2021 Result PQL SPK value 42 10 50.00 3.6 5.000 SampType: LCS Batch ID: 62457 Analysis Date: 9/9/2021	TestCode: EPA Method RunNo: 81156 SeqNo: 2865704 SPK Ref Val %REC LowLimit 0 84.3 68.9 72.6 70	130 8015M/D: Diesel Range Organic Units: mg/Kg HighLimit %RPD RPDLim 135 130 8015M/D: Diesel Range Organic	S s it Qual			

Qualifiers:

Value exceeds Maximum Contaminant Level. *

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 8 of 12

Client:	Devon E	01									
Project:	North Pu	re Gold 8 Fe	ed 11								
Sample ID:	MB-62445	SampTy	pe: ME	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch I	ID: 624	445	F	RunNo: 8	1156				
Prep Date:	9/8/2021	Analysis Da	te: 9/	9/2021	5	SeqNo: 2	865706	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		9.0		10.00		90.1	70	130			
Sample ID:	MB-62457	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch I	ID: 624	457	F	RunNo: 8	1156				
Prep Date:	9/8/2021	Analysis Da	te: 9/	9/2021	S	SeqNo: 2	865707	Units: %Red	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		11		10.00		109	70	130			
Sample ID:	2108E74-006AMS	SampTy	pe: MS	;	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	BH21-04 4'	Batch I	ID: 624	445	F	RunNo: 8	1156				
Prep Date:	9/8/2021	Analysis Da	te: 9/	9/2021	S	SeqNo: 2	865709	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	44	10	50.56	46.61	-6.08	39.3	155			SH
Surr: DNOP		4.5		5.056		89.5	70	130			Н
Sample ID:	2108E74-006AMS	D SampTy	pe: MS	D	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	BH21-04 4'	Batch I	ID: 624	445	F	RunNo: 8	1156				
Prep Date:	9/8/2021	Analysis Da	te: 9/	9/2021	S	SeqNo: 2	865710	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	64	9.4	46.99	46.61	36.6	39.3	155	37.8	23.4	RSH
Surr: DNOP		5.8		4.699		124	70	130	0	0	Н

Qualifiers:

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

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

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2108E74

13-Sep-21

WO#:

	WO#:	2108E74
aboratory, Inc.		13-Sep-21

Client: Devon E Project: North Pt	Energy ure Gold 8 Fee	d 11								
Sample ID: mb-62243	SampType: MBLK			Test	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID	D: 622	243	R	unNo: 80	0896				
Prep Date: 8/27/2021	Analysis Date	e: 8/ :	30/2021	S	eqNo: 28	855152	Units: mg/K	g		
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 1100	5.0	1000		111	70	130			
Sample ID: Ics-62243	SampTyp	e: LC	S	Test	Code: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID	D: 622	243	R	unNo: 80	0896				
Prep Date: 8/27/2021	Analysis Date	e: 8/	30/2021	S	eqNo: 28	855153	Units: mg/K	g		
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	78.6	131			
Surr: BFB	1200		1000		120	70	130			
Sample ID: mb-62435	SampTyp	e: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID	D: 624	435	RunNo: 81171						
Prep Date: 9/7/2021	Analysis Date	e: 9/ 9	9/2021	S	eqNo: 28	865211	Units: mg/K	g		
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	70	130			
Sample ID: Ics-62435	SampTyp	e: LC	s	Test	Code: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID	D: 624	435	R	unNo: 8 1	1171				
Prep Date: 9/7/2021	Analysis Date	e: 9/ 9	9/2021	S	eqNo: 28	865212	Units: mg/K	g		
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	78.6	131			
Surr: BFB	1100		1000		110	70	130			

Qualifiers:

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

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

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WO#:	2108E74
	13-Sep-21

Project: No	evon Energy orth Pure Gold 8	Fed 11								
Sample ID: mb-62243	Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Bato	ch ID: 62	243	F	RunNo: 8	0896				
Prep Date: 8/27/2021	Analysis	Date: 8/	30/2021	S	SeqNo: 2	855200	Units: mg/k	۲q		
•	-				•		•	•		Qual
Analyte enzene	Result ND	PQL 0.025	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
oluene	ND	0.020								
thylbenzene	ND	0.050								
ylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzer	ne 1.0		1.000		102	70	130			
Sample ID: LCS-62243	Samp	Туре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Bato	ch ID: 62	243	F	RunNo: 8	0896				
Prep Date: 8/27/2021	Analysis	Date: 8/	30/2021	S	SeqNo: 2	855201	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
enzene	0.96	0.025	1.000	0	95.6	80	120			
oluene	0.96	0.050	1.000	0	96.3	80	120			
thylbenzene	0.96	0.050	1.000	0	95.7	80	120			
ylenes, Total	2.9	0.10	3.000	0	95.7	80	120			
Surr: 4-Bromofluorobenzer	ne 1.0		1.000		101	70	130			
Sample ID: 2108e74-0	01ams Samp	Туре: М	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: BH21-01 0	.5 Bato	ch ID: 62	243	F	RunNo: 8	0896				
Prep Date: 8/27/2021	Analysis	Date: 8/	30/2021	S	SeqNo: 2	855204	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
enzene	0.94	0.024	0.9737	0	96.3	80	120			
oluene	0.94	0.049	0.9737	0	96.9	80	120			
thylbenzene	0.95	0.049	0.9737	0	97.1	80	120			
ylenes, Total	2.8	0.097	2.921	0	95.9	80	120			
Surr: 4-Bromofluorobenzer	ne 1.0		0.9737		103	70	130			
Sample ID: 2108e74-0	01amsd Samp	Туре: МS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: BH21-01 0	.5 Bato	ch ID: 62	243	F	RunNo: 8	0896				
Prep Date: 8/27/2021	Analysis	Date: 8/	30/2021	S	SeqNo: 2	855205	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
enzene	0.91	0.024	0.9794	0	92.8	80	120	3.08	20	
oluene	0.92	0.049	0.9794	0	94.4	80	120	2.01	20	
thylbenzene	0.92	0.049	0.9794	0	93.5	80	120	3.21	20	
ylenes, Total	2.7	0.098	2.938	0	92.6	80	120	2.99	20	
Surr: 4-Bromofluorobenzer	ne 0.99		0.9794		102	70	130	0	0	

Qualifiers:

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

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

	WO#:	2108E74
ital Analysis Laboratory, Inc.		13-Sep-21

	evon Energy orth Pure Gold 8	Fed 11								
Sample ID: mb-62435	Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Bato	h ID: 62	435	F	RunNo: 8	1171				
Prep Date: 9/7/2021	Analysis I	Date: 9/	9/2021	S	SeqNo: 2	865252	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenze	ne 0.91		1.000		91.2	70	130			
Sample ID: LCS-6243	5 Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Bato	h ID: 62	435	F	RunNo: 8	1171				
Prep Date: 9/7/2021	Analysis I	Date: 9/	9/2021	S	SeqNo: 2	865253	Units: mg/K	íg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.2	80	120			
Toluene	0.90	0.050	1.000	0	90.0	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.9	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.3	80	120			
Surr: 4-Bromofluorobenze	ne 0.94		1.000		93.6	70	130			

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

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

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ANALYSIS	TEL: 505-345-3	ttal Analysis Labor 4901 Hawkin Albuquerque, NM 8 975 FAX: 505-345- s.hallenvironmental	7109 San 4107	nple Log-In Che	Page 86 ck List
Client Name: Devon Energy	Work Order Num	per: 2108E74		RcptNo: 1	
Received By: Cheyenne Cason	8/26/2021 7:30:00	٩M	Chul		
Completed By: Isaiah Ortiz	8/26/2021 8:54:10	٩M	Chul I-C		
Reviewed By: JR 8/26/21					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the samples				[7]	
o. Was an allempt made to cool the samples	ſ	Yes 🗹	No 🗌	NA	
4. Were all samples received at a temperature	e of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) prope	rly 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 brok	en?	Yes	No 🗹	# of preserved	/
11. Does paperwork match bottle labels?		Yes 🔽	No 🗌	bottles checked for pH:	
(Note discrepancies on chain of custody)					inless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes 🖌	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗸	No 🗌		1 01
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by: KP	4 8/26
<u>Special Handling (if applicable)</u>					
15. Was client notified of all discrepancies with	this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:	eMail P	hone 🗌 Fax	In Person	
Regarding:				Management of the second	
Client Instructions:				The second second system of the second se	
16. Additional remarks:					
	eal Intact Seal No ot Present	Seal Date	Signed By		

Page 1 of 1

Client	Chain	-of-C	ustody Record	Turn-Aroun	d Time: 5-0	tay					Н			Er	vv	TR	20	NM	IEN		
olient.	Devo.	$\widehat{}$		Standar		า				6											_
	W	les 1	Northers	Project Nan	ne:			ANALYSIS LABORATOR													
Mailing	Addres	s:		Nach		18511	1	4901 Hawkins NE - Albuquerque, NM 87109													
				Project #:	une Goli	Orcal	/	1											09		
Phone	#:			AIE-0	2916				T E	a. 50	5-34	5-39	Column Law	COLUMN TWO IS NOT	Contraction of the local division of the loc	A Real Property lies	uest	4107			
email o	or Fax#:			Project Man					â												
QA/QC	Package	:						(8021)	/ MRO)	3's		S		1, SO4			les				
Star	ndard		□ Level 4 (Full Validation)	Brand	on Str	·Schaf	er	S	10	PCB's		SIN		PO ₄ ,			it/Ab				
	litation:	□ Az Co	ompliance	Sampler:				TMB	/ DRO	082	.	8270SIMS		NO ₂ ,			Total Coliform (Present/Absent)				
		□ Othe	r	On Ice:	Ø Yes	□ No		Е / Т	RO	8081 Pesticides/8082	8	ъI				(AO	(Pre				
	D (Type)	1		# of Coolers		C MID DI	M (°C)	B	TPHy8015D(GRO	icide	pou	PAHs by 8310	RCRA 8 Metals	NO ₃ ,	F	8270 (Semi-VOA)	orm				
			2	COOIEI TEITI	P(including CF): 2	5-0.122.	7 (0)		015	Pest	Met	by 8	8	Ъ,	9	Sen	Colif				
				Container	Preservative			втех	E S	81 1)B(Hs	SRA	CI)F,	8260 (VOA)	70 (tal (
Date	Time	Matrix	Sample Name	Type and #	Туре	Z108E	741	<u>b</u>	Ę	8			ЩK		8	8	P			_	\square
0.69	8:25	501/	BH21-01 0.5	402	ige		00 1				_		_	/						_	\square
	9:30		BH21-03 0.5			(062							\square							
	11:00	2	B1-21-04 0.5			(003														
	11:05		BH21-03 21			C	264														
	11:15		BH21.04 2'			0	205							Π							\square
	11:20		BH21-04 4'			(206														
	11:25		BI+21-03 5'			C	m7							\square							
	11:35		BH21-03 8'			Ć	208					\top	+	\square					+		\vdash
	11:45		BI+21.04 8'			(ng							\uparrow						1	
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	12									\neg					\neg						\vdash
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Date:	Time:	Relinquish	ed by:	Received by:	Via:	Date T	īme	Rem	narks	: P	1000		hal	4			-(ler	brando	mar	roles?
				Mun	in	3/25/21 8	145	DI	14		10	ZAL		-1/	RL	12	111	02	2	BHI	1-040
Date:	Time:	Relinquish	ed by:	Received by:	Via: 63		ime	15 0	1	7	10	917	-5	/	Di	20	- 7	- 8		1	mic
125/201	1900	PAPI,	MMMp	Cer	Cem 8	Izela O	730	1	~ ^	0		/	C	- /	9	\cap			. (991	17/21



July 24, 2023

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

RE: North Pure Gold 8 Federal 011

OrderNo.: 2307707

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 16 sample(s) on 7/15/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-05 0' Collection Date: 7/13/2023 12:30:00 PM **Project:** North Pure Gold 8 Federal 011 Lab ID: 2307707-001 Matrix: SOIL Received Date: 7/15/2023 7:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) 28 9.7 mg/Kg 1 7/18/2023 9:53:40 PM Motor Oil Range Organics (MRO) 58 49 mg/Kg 1 7/18/2023 9:53:40 PM Surr: DNOP 92.8 69-147 %Rec 1 7/18/2023 9:53:40 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 8100 300 7/20/2023 12:43:36 PM mg/Kg 100 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: RAA ND 0.023 7/18/2023 4:10:20 PM Benzene mg/Kg 1 Toluene ND 7/18/2023 4:10:20 PM 0.047 mg/Kg 1 Ethylbenzene ND 0.047 mg/Kg 1 7/18/2023 4:10:20 PM Xylenes, Total ND 0.094 mg/Kg 1 7/18/2023 4:10:20 PM Surr: 1,2-Dichloroethane-d4 %Rec 7/18/2023 4:10:20 PM 117 64.8-147 1 Surr: 4-Bromofluorobenzene 89.8 62.1-144 %Rec 1 7/18/2023 4:10:20 PM Surr: Dibromofluoromethane 73-145 %Rec 1 7/18/2023 4:10:20 PM 120 Surr: Toluene-d8 93.8 70-130 %Rec 1 7/18/2023 4:10:20 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND mg/Kg 7/18/2023 4:10:20 PM 47 1 Surr: BFB 85.9 70-130 %Rec 1 7/18/2023 4:10:20 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

Р Sample pH Not In Range RL Reporting Limit

Page 1 of 23

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-05 2' **Project:** North Pure Gold 8 Federal 011 Collection Date: 7/13/2023 12:35:00 PM Lab ID: 2307707-002 Matrix: SOIL Received Date: 7/15/2023 7:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 7/18/2023 10:17:31 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/18/2023 10:17:31 PM Surr: DNOP 89.4 69-147 %Rec 1 7/18/2023 10:17:31 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 840 60 7/19/2023 4:07:47 AM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: RAA ND 7/18/2023 4:37:56 PM Benzene 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 7/18/2023 4:37:56 PM Ethylbenzene ND 0.047 mg/Kg 1 7/18/2023 4:37:56 PM Xylenes, Total ND 0.095 mg/Kg 1 7/18/2023 4:37:56 PM Surr: 1,2-Dichloroethane-d4 125 %Rec 7/18/2023 4:37:56 PM 64.8-147 1 Surr: 4-Bromofluorobenzene 94.0 62.1-144 %Rec 1 7/18/2023 4:37:56 PM Surr: Dibromofluoromethane 125 73-145 %Rec 1 7/18/2023 4:37:56 PM Surr: Toluene-d8 99.6 70-130 %Rec 1 7/18/2023 4:37:56 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND mg/Kg 7/18/2023 4:37:56 PM 47 1 Surr: BFB 92.4 70-130 %Rec 1 7/18/2023 4:37:56 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL

Reporting Limit

Page 2 of 23

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2307707-003

North Pure Gold 8 Federal 011

Analytical Report Lab Order 2307707

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-05 4' Collection Date: 7/13/2023 12:40:00 PM Received Date: 7/15/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/18/2023 10:41:22 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/18/2023 10:41:22 PM
Surr: DNOP	88.7	69-147	%Rec	1	7/18/2023 10:41:22 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	720	60	mg/Kg	20	7/19/2023 4:20:08 AM
EPA METHOD 8260B: VOLATILES SHORT I	lst				Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	7/18/2023 5:05:31 PM
Toluene	ND	0.048	mg/Kg	1	7/18/2023 5:05:31 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/18/2023 5:05:31 PM
Xylenes, Total	ND	0.096	mg/Kg	1	7/18/2023 5:05:31 PM
Surr: 1,2-Dichloroethane-d4	112	64.8-147	%Rec	1	7/18/2023 5:05:31 PM
Surr: 4-Bromofluorobenzene	92.3	62.1-144	%Rec	1	7/18/2023 5:05:31 PM
Surr: Dibromofluoromethane	117	73-145	%Rec	1	7/18/2023 5:05:31 PM
Surr: Toluene-d8	97.9	70-130	%Rec	1	7/18/2023 5:05:31 PM
EPA METHOD 8015D MOD: GASOLINE RAM	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/18/2023 5:05:31 PM
Surr: BFB	93.2	70-130	%Rec	1	7/18/2023 5:05:31 PM

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range Reporting Limit

RL

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

2307707-004

North Pure Gold 8 Federal 011

Analytical Report Lab Order 2307707

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/24/2023 Client Sample ID: BH23-06 0' Collection Date: 7/13/2023 12:55:00 PM

Received Date: 7/15/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/18/2023 11:05:08 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/18/2023 11:05:08 PM
Surr: DNOP	90.8	69-147	%Rec	1	7/18/2023 11:05:08 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	7400	300	mg/Kg	100	7/20/2023 12:56:00 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	7/18/2023 5:33:03 PM
Toluene	ND	0.047	mg/Kg	1	7/18/2023 5:33:03 PM
Ethylbenzene	ND	0.047	mg/Kg	1	7/18/2023 5:33:03 PM
Xylenes, Total	ND	0.094	mg/Kg	1	7/18/2023 5:33:03 PM
Surr: 1,2-Dichloroethane-d4	124	64.8-147	%Rec	1	7/18/2023 5:33:03 PM
Surr: 4-Bromofluorobenzene	96.2	62.1-144	%Rec	1	7/18/2023 5:33:03 PM
Surr: Dibromofluoromethane	126	73-145	%Rec	1	7/18/2023 5:33:03 PM
Surr: Toluene-d8	99.7	70-130	%Rec	1	7/18/2023 5:33:03 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/18/2023 5:33:03 PM
Surr: BFB	91.7	70-130	%Rec	1	7/18/2023 5:33:03 PM

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 4 of 23

CLIENT: Vertex Resources Services, Inc.

North Pure Gold 8 Federal 011

Analytical Report Lab Order 2307707

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-06 2' Collection Date: 7/13/2023 1:00:00 PM Received Date: 7/15/2023 7:30:00 AM

Lab ID: 2307707-005	Matrix: SOIL	Recei	ived Date:	7/15/2	2023 7:30:00 AM
Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIE	SEL RANGE ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	7/18/2023 11:28:50 PM
Motor Oil Range Organics (MRO)) ND	42	mg/Kg	1	7/18/2023 11:28:50 PM
Surr: DNOP	88.4	69-147	%Rec	1	7/18/2023 11:28:50 PM
EPA METHOD 300.0: ANION	S				Analyst: SNS
Chloride	410	60	mg/Kg	20	7/19/2023 4:44:48 AM
EPA METHOD 8260B: VOLA	TILES SHORT LIST				Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	7/18/2023 6:00:31 PM
Toluene	ND	0.046	mg/Kg	1	7/18/2023 6:00:31 PM
Ethylbenzene	ND	0.046	mg/Kg	1	7/18/2023 6:00:31 PM
Xylenes, Total	ND	0.093	mg/Kg	1	7/18/2023 6:00:31 PM
Surr: 1,2-Dichloroethane-d4	120	64.8-147	%Rec	1	7/18/2023 6:00:31 PM
Surr: 4-Bromofluorobenzene	93.8	62.1-144	%Rec	1	7/18/2023 6:00:31 PM
Surr: Dibromofluoromethane	123	73-145	%Rec	1	7/18/2023 6:00:31 PM
Surr: Toluene-d8	97.1	70-130	%Rec	1	7/18/2023 6:00:31 PM
EPA METHOD 8015D MOD:	GASOLINE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/18/2023 6:00:31 PM
Surr: BFB	89.3	70-130	%Rec	1	7/18/2023 6:00:31 PM

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

Qualifiers:

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

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

2307707-006

North Pure Gold 8 Federal 011

Analytical Report Lab Order 2307707

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-06 4' Collection Date: 7/13/2023 1:05:00 PM Received Date: 7/15/2023 7:30:00 AM

		······································						
Analyses	Result	RL Qual	Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: DGH			
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/19/2023 12:16:21 AM			
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/19/2023 12:16:21 AM			
Surr: DNOP	88.2	69-147	%Rec	1	7/19/2023 12:16:21 AM			
EPA METHOD 300.0: ANIONS					Analyst: SNS			
Chloride	460	60	mg/Kg	20	7/19/2023 4:57:09 AM			
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: RAA			
Benzene	ND	0.024	mg/Kg	1	7/18/2023 6:28:00 PM			
Toluene	ND	0.047	mg/Kg	1	7/18/2023 6:28:00 PM			
Ethylbenzene	ND	0.047	mg/Kg	1	7/18/2023 6:28:00 PM			
Xylenes, Total	ND	0.094	mg/Kg	1	7/18/2023 6:28:00 PM			
Surr: 1,2-Dichloroethane-d4	121	64.8-147	%Rec	1	7/18/2023 6:28:00 PM			
Surr: 4-Bromofluorobenzene	93.4	62.1-144	%Rec	1	7/18/2023 6:28:00 PM			
Surr: Dibromofluoromethane	122	73-145	%Rec	1	7/18/2023 6:28:00 PM			
Surr: Toluene-d8	100	70-130	%Rec	1	7/18/2023 6:28:00 PM			
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: RAA			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/18/2023 6:28:00 PM			
Surr: BFB	90.5	70-130	%Rec	1	7/18/2023 6:28:00 PM			

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 6 of 23

Lab ID:

Analytical Report Lab Order 2307707

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-07 0' North Pure Gold 8 Federal 011 Collection Date: 7/13/2023 1:25:00 PM 2307707-007 Matrix: SOIL Received Date: 7/15/2023 7:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 7/19/2023 12:40:06 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/19/2023 12:40:06 AM Surr: DNOP 91.0 69-147 %Rec 1 7/19/2023 12:40:06 AM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride 13000 600 7/19/2023 3:26:20 PM mg/Kg 200 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: RAA ND 0.025 7/18/2023 6:55:23 PM Benzene mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/18/2023 6:55:23 PM Ethylbenzene ND 0.049 mg/Kg 1 7/18/2023 6:55:23 PM Xylenes, Total ND 0.098 mg/Kg 1 7/18/2023 6:55:23 PM Surr: 1,2-Dichloroethane-d4 %Rec 7/18/2023 6:55:23 PM 110 64.8-147 1 Surr: 4-Bromofluorobenzene 93.8 62.1-144 %Rec 1 7/18/2023 6:55:23 PM

73-145

70-130

70-130

49

121

102

ND

92.1

%Rec

%Rec

mg/Kg

%Rec

1

1

1

1

7/18/2023 6:55:23 PM

7/18/2023 6:55:23 PM

7/18/2023 6:55:23 PM

7/18/2023 6:55:23 PM

Analyst: RAA

Surr: Toluene-d8 **EPA METHOD 8015D MOD: GASOLINE RANGE**

Surr: Dibromofluoromethane

Gasoline Range Organics (GRO)

Surr: BFB

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

Qualifiers:

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

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Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-07 2' **Project:** North Pure Gold 8 Federal 011 Collection Date: 7/13/2023 1:30:00 PM Lab ID: 2307707-008 Matrix: SOIL Received Date: 7/15/2023 7:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 8.9 mg/Kg 1 7/19/2023 1:03:47 AM Motor Oil Range Organics (MRO) ND 44 mg/Kg 1 7/19/2023 1:03:47 AM Surr: DNOP 90.0 69-147 %Rec 1 7/19/2023 1:03:47 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 4000 150 7/20/2023 8:10:21 PM mg/Kg 50 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: RAA ND 0.023 7/18/2023 7:22:47 PM Benzene mg/Kg 1 Toluene ND 7/18/2023 7:22:47 PM 0.046 mg/Kg 1 Ethylbenzene ND 0.046 mg/Kg 1 7/18/2023 7:22:47 PM Xylenes, Total ND 0.092 mg/Kg 1 7/18/2023 7:22:47 PM Surr: 1,2-Dichloroethane-d4 64.8-147 %Rec 7/18/2023 7:22:47 PM 119 1 Surr: 4-Bromofluorobenzene 94.5 62.1-144 %Rec 1 7/18/2023 7:22:47 PM 7/18/2023 7:22:47 PM Surr: Dibromofluoromethane 126 73-145 %Rec 1 Surr: Toluene-d8 97.0 70-130 %Rec 1 7/18/2023 7:22:47 PM

ND

89.4

EPA METHOD 8015D MOD: GASOLINE RANGE

Gasoline Range Organics (GRO)

Surr: BFB

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

Qualifiers:

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

mg/Kg

%Rec

1

1

46

70-130

- P Sample pH Not In Range RL Reporting Limit
- RL Repor

Page 8 of 23

Analyst: RAA

7/18/2023 7:22:47 PM

7/18/2023 7:22:47 PM

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-07 4' **Project:** North Pure Gold 8 Federal 011 Collection Date: 7/13/2023 1:35:00 PM Lab ID: 2307707-009 Matrix: SOIL Received Date: 7/15/2023 7:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 10 mg/Kg 1 7/19/2023 1:27:33 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 7/19/2023 1:27:33 AM Surr: DNOP 90.3 69-147 %Rec 1 7/19/2023 1:27:33 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 2600 150 7/20/2023 8:22:46 PM mg/Kg 50 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: RAA 0.025 7/18/2023 7:50:07 PM Benzene ND mg/Kg 1 Toluene ND 7/18/2023 7:50:07 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 7/18/2023 7:50:07 PM Xylenes, Total ND 0.099 mg/Kg 1 7/18/2023 7:50:07 PM Surr: 1,2-Dichloroethane-d4 126 %Rec 7/18/2023 7:50:07 PM 64.8-147 1 Surr: 4-Bromofluorobenzene 93.4 62.1-144 %Rec 1 7/18/2023 7:50:07 PM Surr: Dibromofluoromethane 73-145 %Rec 1 7/18/2023 7:50:07 PM 132 Surr: Toluene-d8 99.0 70-130 %Rec 1 7/18/2023 7:50:07 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND mg/Kg 7/18/2023 7:50:07 PM 49 1 Surr: BFB 90.1 70-130 %Rec 1 7/18/2023 7:50:07 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank в

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 9 of 23

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-08 0 **Project:** North Pure Gold 8 Federal 011 Collection Date: 7/13/2023 2:00:00 PM Lab ID: 2307707-010 Matrix: SOIL Received Date: 7/15/2023 7:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 7/19/2023 1:51:16 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/19/2023 1:51:16 AM Surr: DNOP 94.0 69-147 %Rec 1 7/19/2023 1:51:16 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 9000 300 7/20/2023 8:35:11 PM mg/Kg 100 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: RAA ND 0.024 7/18/2023 8:17:29 PM Benzene mg/Kg 1 Toluene ND 7/18/2023 8:17:29 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 7/18/2023 8:17:29 PM Xylenes, Total ND 0.096 mg/Kg 1 7/18/2023 8:17:29 PM Surr: 1,2-Dichloroethane-d4 %Rec 7/18/2023 8:17:29 PM 129 64.8-147 1 Surr: 4-Bromofluorobenzene 97.7 62.1-144 %Rec 1 7/18/2023 8:17:29 PM Surr: Dibromofluoromethane 73-145 %Rec 1 7/18/2023 8:17:29 PM 132 Surr: Toluene-d8 98.5 70-130 %Rec 1 7/18/2023 8:17:29 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND mg/Kg 7/18/2023 8:17:29 PM 48 1 Surr: BFB 88.5 70-130 %Rec 1 7/18/2023 8:17:29 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

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

Page 10 of 23

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-08 2' **Project:** North Pure Gold 8 Federal 011 Collection Date: 7/13/2023 2:05:00 PM Lab ID: 2307707-011 Matrix: SOIL Received Date: 7/15/2023 7:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 8.9 mg/Kg 1 7/19/2023 2:14:59 AM Motor Oil Range Organics (MRO) ND 44 mg/Kg 1 7/19/2023 2:14:59 AM Surr: DNOP 93.8 69-147 %Rec 1 7/19/2023 2:14:59 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 850 60 7/19/2023 1:10:57 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: RAA ND 0.024 7/18/2023 8:44:48 PM Benzene mg/Kg 1 Toluene ND 7/18/2023 8:44:48 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 7/18/2023 8:44:48 PM Xylenes, Total ND 0.096 mg/Kg 1 7/18/2023 8:44:48 PM Surr: 1,2-Dichloroethane-d4 128 %Rec 7/18/2023 8:44:48 PM 64.8-147 1 Surr: 4-Bromofluorobenzene 89.2 62.1-144 %Rec 1 7/18/2023 8:44:48 PM Surr: Dibromofluoromethane 73-145 %Rec 1 7/18/2023 8:44:48 PM 130 Surr: Toluene-d8 102 70-130 %Rec 1 7/18/2023 8:44:48 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND mg/Kg 7/18/2023 8:44:48 PM 48 1 Surr: BFB 87.8 70-130 %Rec 1 7/18/2023 8:44:48 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit

ND POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 11 of 23

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2307707-012

North Pure Gold 8 Federal 011

Analytical Report Lab Order 2307707

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-08 4' Collection Date: 7/13/2023 2:10:00 PM Received Date: 7/15/2023 7:30:00 AM

Lub ID: 2507707 012	Julia Doll	псси	cu Dute	111312	023 7.30.00 7 MM
Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/19/2023 2:38:41 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/19/2023 2:38:41 AM
Surr: DNOP	84.2	69-147	%Rec	1	7/19/2023 2:38:41 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	2400	150	mg/Kg	50	7/20/2023 8:47:35 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	7/18/2023 9:12:03 PM
Toluene	ND	0.049	mg/Kg	1	7/18/2023 9:12:03 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/18/2023 9:12:03 PM
Xylenes, Total	ND	0.099	mg/Kg	1	7/18/2023 9:12:03 PM
Surr: 1,2-Dichloroethane-d4	123	64.8-147	%Rec	1	7/18/2023 9:12:03 PM
Surr: 4-Bromofluorobenzene	93.4	62.1-144	%Rec	1	7/18/2023 9:12:03 PM
Surr: Dibromofluoromethane	132	73-145	%Rec	1	7/18/2023 9:12:03 PM
Surr: Toluene-d8	103	70-130	%Rec	1	7/18/2023 9:12:03 PM
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/18/2023 9:12:03 PM
Surr: BFB	89.6	70-130	%Rec	1	7/18/2023 9:12:03 PM

Matrix: SOIL

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

Qualifiers:

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

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

2307707-013

North Pure Gold 8 Federal 011

Analytical Report Lab Order 2307707

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-08 6' Collection Date: 7/13/2023 2:15:00 PM Received Date: 7/15/2023 7:30:00 AM

Matrix. SOIL	IN	cerveu Date.	1/15/2	025 7.50.00 7 HM
Result	RL (Qual Units	DF	Date Analyzed
ORGANICS				Analyst: DGH
ND	9.6	mg/Kg	1	7/19/2023 3:02:25 AM
ND	48	mg/Kg	1	7/19/2023 3:02:25 AM
84.6	69-147	%Rec	1	7/19/2023 3:02:25 AM
				Analyst: SNS
270	60	mg/Kg	20	7/19/2023 2:00:35 PM
T LIST				Analyst: RAA
ND	0.024	mg/Kg	1	7/18/2023 9:39:15 PM
ND	0.048	mg/Kg	1	7/18/2023 9:39:15 PM
ND	0.048	mg/Kg	1	7/18/2023 9:39:15 PM
ND	0.096	mg/Kg	1	7/18/2023 9:39:15 PM
127	64.8-147	%Rec	1	7/18/2023 9:39:15 PM
95.5	62.1-144	%Rec	1	7/18/2023 9:39:15 PM
135	73-145	%Rec	1	7/18/2023 9:39:15 PM
105	70-130	%Rec	1	7/18/2023 9:39:15 PM
ANGE				Analyst: RAA
ND	4.8	mg/Kg	1	7/18/2023 9:39:15 PM
91.6	70-130	%Rec	1	7/18/2023 9:39:15 PM
	Result ORGANICS ND ND 84.6 270 TLIST ND ND ND ND 127 95.5 135 105 ANGE ND	Result RL C ORGANICS ND 9.6 ND 48 84.6 69-147 270 60 T LIST ND 0.024 ND 0.048 ND 0.048 ND 0.048 ND 0.096 127 64.8-147 95.5 62.1-144 135 73-145 105 70-130 ANGE ND 4.8 14.8	Result RL Qual Units ORGANICS ND 9.6 mg/Kg ND 48 mg/Kg ND 48 mg/Kg 84.6 69-147 %Rec 270 60 mg/Kg 1270 60 mg/Kg ND 0.024 mg/Kg ND 0.048 mg/Kg ND 0.048 mg/Kg ND 0.048 mg/Kg ND 0.048 mg/Kg 127 64.8-147 %Rec 95.5 62.1-144 %Rec 135 73-145 %Rec 105 70-130 %Rec ANGE ND 4.8	Result RL Qual Units DF ORGANICS ND 9.6 mg/Kg 1 ND 48 mg/Kg 1 ND 48 mg/Kg 1 84.6 69-147 %Rec 1 270 60 mg/Kg 20 T LIST ND 0.024 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.096 mg/Kg 1 127 64.8-147 %Rec 1 95.5 62.1-144 %Rec 1 135 73-145 %Rec 1 105 70-130 %Rec 1 ANGE ND 4.8 mg/Kg 1

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Lab ID:

CLIENT: Vertex Resources Services, Inc.

2307707-014

North Pure Gold 8 Federal 011

Analytical Report Lab Order 2307707

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/24/2023 Client Sample ID: BH23-09 0' Collection Date: 7/13/2023 2:25:00 PM

Received Date: 7/15/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/19/2023 3:26:09 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/19/2023 3:26:09 AM
Surr: DNOP	84.0	69-147	%Rec	1	7/19/2023 3:26:09 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	1900	60	mg/Kg	20	7/19/2023 2:13:00 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	7/18/2023 10:06:24 PM
Toluene	ND	0.049	mg/Kg	1	7/18/2023 10:06:24 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/18/2023 10:06:24 PM
Xylenes, Total	ND	0.098	mg/Kg	1	7/18/2023 10:06:24 PM
Surr: 1,2-Dichloroethane-d4	124	64.8-147	%Rec	1	7/18/2023 10:06:24 PM
Surr: 4-Bromofluorobenzene	92.0	62.1-144	%Rec	1	7/18/2023 10:06:24 PM
Surr: Dibromofluoromethane	129	73-145	%Rec	1	7/18/2023 10:06:24 PM
Surr: Toluene-d8	106	70-130	%Rec	1	7/18/2023 10:06:24 PM
EPA METHOD 8015D MOD: GASOLINE RANGI	E				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/19/2023 1:52:16 PM
Surr: BFB	84.0	70-130	%Rec	1	7/19/2023 1:52:16 PM

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 14 of 23

Date Reported: 7/24/2023

7/19/2023 2:19:45 PM

7/19/2023 2:19:45 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-09 2' **Project:** North Pure Gold 8 Federal 011 Collection Date: 7/13/2023 2:30:00 PM Lab ID: 2307707-015 Matrix: SOIL Received Date: 7/15/2023 7:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 7/19/2023 3:49:51 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 7/19/2023 3:49:51 AM Surr: DNOP 84.8 69-147 %Rec 1 7/19/2023 3:49:51 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 2300 60 7/19/2023 2:25:24 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: RAA 0.023 7/18/2023 10:33:35 PM Benzene ND mg/Kg 1 Toluene ND 7/18/2023 10:33:35 PM 0.047 mg/Kg 1 Ethylbenzene ND 0.047 mg/Kg 1 7/18/2023 10:33:35 PM Xylenes, Total ND 0.094 mg/Kg 1 7/18/2023 10:33:35 PM Surr: 1,2-Dichloroethane-d4 125 %Rec 7/18/2023 10:33:35 PM 64.8-147 1 Surr: 4-Bromofluorobenzene 98.2 62.1-144 %Rec 1 7/18/2023 10:33:35 PM Surr: Dibromofluoromethane 73-145 %Rec 1 7/18/2023 10:33:35 PM 133 Surr: Toluene-d8 99.1 70-130 %Rec 1 7/18/2023 10:33:35 PM Analyst: RAA

ND

85.7

EPA METHOD 8015D MOD: GASOLINE RANGE Gasoline Range Organics (GRO)

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

Qualifiers:

Surr: BFB

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

mg/Kg

%Rec

1

1

47

70-130

- P Sample pH Not In Range
- RL Reporting Limit

Page 15 of 23

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-09 4' **Project:** North Pure Gold 8 Federal 011 Collection Date: 7/13/2023 2:35:00 PM Lab ID: 2307707-016 Matrix: SOIL Received Date: 7/15/2023 7:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.4 mg/Kg 1 7/19/2023 8:32:24 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 7/19/2023 8:32:24 PM Surr: DNOP 96.2 69-147 %Rec 1 7/19/2023 8:32:24 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 7/19/2023 11:28:56 AM 4.9 mg/Kg 1 Surr: BFB 88.8 15-244 %Rec 1 7/19/2023 11:28:56 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 7/19/2023 11:28:56 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/19/2023 11:28:56 AM Ethylbenzene ND 0.049 mg/Kg 1 7/19/2023 11:28:56 AM Xylenes, Total ND 0.098 mg/Kg 1 7/19/2023 11:28:56 AM Surr: 4-Bromofluorobenzene 97.4 39.1-146 %Rec 1 7/19/2023 11:28:56 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS mg/Kg Chloride 7/19/2023 2:37:49 PM 1200 60 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 16 of 23

L.	ironmental Analysis Laboratory, Inc.	WO#:	2307707
	nonnentai Anaiysis Laboratory, me.		24-Jul-23
Client:	Vertex Resources Services, Inc.		

Project:	Nort	h Pure Gold 8 Federal 011	
Sample ID:	MB-76308	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 76308	RunNo: 98334
Prep Date:	7/18/2023	Analysis Date: 7/18/2023	SeqNo: 3578775 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-76308	SampType: Ics	TestCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 76308	RunNo: 98334
Prep Date:	7/18/2023	Analysis Date: 7/18/2023	SeqNo: 3578776 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		14 1.5 15.00	0 92.3 90 110
Sample ID:	MB-76320	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 76320	RunNo: 98352
Prep Date:	7/19/2023	Analysis Date: 7/19/2023	SeqNo: 3580011 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-76320	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 76320	RunNo: 98352
Prep Date:	7/19/2023	Analysis Date: 7/19/2023	SeqNo: 3580012 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		14 1.5 15.00	0 94.1 90 110

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

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QC SUMMART REFURT	WO#:	2307707
Hall Environmental Analysis Laboratory, Inc.		24-Jul-23

Client: Vertex Re Project: North Pur		,									
•				Too	tCada: E				0		
Sample ID: MB-76296	•	Type: MB			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS		h ID: 762			RunNo: 98287						
Prep Date: 7/18/2023	Analysis [Date: 7/	18/2023		SeqNo: 3	577902	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50	40.00								
Surr: DNOP	8.4		10.00		84.2	69	147				
Sample ID: LCS-76296	SampType: LCS			Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: LCSS	Batch ID: 76296			F	RunNo: 9	8287					
Prep Date: 7/18/2023	Analysis E	Date: 7/*	18/2023	S	SeqNo: 3	577903	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	44	10	50.00	0	88.2	61.9	130				
Surr: DNOP	4.1		5.000		81.3	69	147				
Sample ID: 2307707-015AMS	SampT	Туре: МЅ	;	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: BH23-09 2'	Batcl	h ID: 762	296	RunNo: 98287							
Prep Date: 7/18/2023	Analysis E	Date: 7/ *	19/2023	SeqNo: 3577925 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	43	9.8	48.92	0	88.1	54.2	135				
Surr: DNOP	4.1		4.892		83.9	69	147				
Sample ID: 2307707-015AMSD	Samp1	Type: MS	D	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: BH23-09 2'	Batcl	h ID: 762	296	RunNo: 98287							
Prep Date: 7/18/2023	Analysis E	Date: 7/*	19/2023	S	SeqNo: 3	577926	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)											
	44	9.9	49.31	0	88.5	54.2	135	1.26	29.2		
Surr: DNOP	44 4.1	9.9	49.31 4.931	0	88.5 82.9	54.2 69	135 147	1.26 0	29.2 0		
•••	4.1	9.9 Type: MB	4.931		82.9	69		0	0		
Surr: DNOP	4.1 SampT		4.931	Tes	82.9	69 PA Method	147	0	0		
Surr: DNOP Sample ID: MB-76297	4.1 SampT	Type: MB h ID: 762	4.931 BLK 297	Tes	82.9 tCode: El	69 PA Method 8349	147	0 sel Range	0		
Surr: DNOP Sample ID: MB-76297 Client ID: PBS	4.1 SampT Batcl	Type: MB h ID: 762	4.931 BLK 297 19/2023	Tes	82.9 tCode: EI RunNo: 9	69 PA Method 8349	147 8015M/D: Die	0 sel Range	0	Qual	
Surr: DNOP Sample ID: MB-76297 Client ID: PBS Prep Date: 7/18/2023	4.1 SampT Batcl Analysis [Type: MB h ID: 762 Date: 7/ *	4.931 BLK 297 19/2023	Tes F	82.9 tCode: El RunNo: 98 SeqNo: 3	69 PA Method 8349 579967	147 8015M/D: Die Units: mg/K	0 sel Range g	0 Organics	Qual	
Surr: DNOP Sample ID: MB-76297 Client ID: PBS Prep Date: 7/18/2023 Analyte	4.1 SampT Batcl Analysis I Result	Type: MB h ID: 762 Date: 7/ PQL	4.931 BLK 297 19/2023	Tes F	82.9 tCode: El RunNo: 98 SeqNo: 3	69 PA Method 8349 579967	147 8015M/D: Die Units: mg/K	0 sel Range g	0 Organics	Qual	

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

Client: Project:	Vertex Re North Pur		,								
0		SampTy			Too	tCodo: F		004 <i>5</i> M/D- Di-	a al Damara	Ormaniaa	
	LCS-76297	• •		-				8015M/D: Die	esel Range	Organics	
Client ID:	LCSS	Batch	ID: 762	297	RunNo: 98349						
Prep Date:	7/18/2023	Analysis Da	ate: 7/	19/2023	S	SeqNo: 3	579968	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Drganics (DRO)	54	10	50.00	0	109	61.9	130			
Surr: DNOP		5.1		5.000		102	69	147			
Sample ID:	2307707-016AMS	SampT	/pe: MS	5	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID:	BH23-09 4'	Batch	ID: 762	297	F	RunNo: 98	3349				
Prep Date:	7/18/2023	Analysis Da	ate: 7/ 2	20/2023	S	SeqNo: 3	579989	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	49	8.8	44.25	0	110	54.2	135			
Surr: DNOP		4.4		4.425		99.0	69	147			
Sample ID:	2307707-016AMSD	SampT	/pe: MS	D	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID:	BH23-09 4'	Batch	ID: 762	297	F	RunNo: 98	3349				
Prep Date:	7/18/2023	Analysis Da	ate: 7/ 2	20/2023	S	SeqNo: 3	579990	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Drganics (DRO)	49	9.2	45.96	0	107	54.2	135	1.17	29.2	
Surr: DNOP		4.7		4.596		102	69	147	0	0	

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
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- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2307707

24-Jul-23

WO#:

	esources Services, Inc. re Gold 8 Federal 011							
Sample ID: Ics-76285	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 76285	RunNo: 98328						
Prep Date: 7/18/2023	Analysis Date: 7/19/2023	SeqNo: 3578519 Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Gasoline Range Organics (GRO) Surr: BFB	23 5.0 25.00 1900 1000	0 92.0 70 130 187 15 244						
Sample ID: mb-76285	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 76285	RunNo: 98328						
Prep Date: 7/18/2023	Analysis Date: 7/19/2023	SeqNo: 3578520 Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 910 1000	91.4 15 244						
Sample ID: Ics-76287	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 76287	RunNo: 98328						
Prep Date: 7/18/2023	Analysis Date: 7/19/2023	SeqNo: 3579552 Units: %Rec						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Surr: BFB	1900 1000	189 15 244						
Sample ID: mb-76287	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 76287	RunNo: 98328						
Prep Date: 7/18/2023	Analysis Date: 7/19/2023	SeqNo: 3579553 Units: %Rec						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Surr: BFB	900 1000	89.9 15 244						
Sample ID: 2307707-016ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-09 4'	Batch ID: 76285	RunNo: 98328						
Prep Date: 7/18/2023	Analysis Date: 7/19/2023	SeqNo: 3579633 Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
	ResultPQLSPK value234.924.53	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 0 95.4 70 130 </td						
Analyte								
Analyte Gasoline Range Organics (GRO)	23 4.9 24.53 2000 981.4	0 95.4 70 130						
Analyte Gasoline Range Organics (GRO) Surr: BFB	23 4.9 24.53 2000 981.4	0 95.4 70 130 201 15 244						
Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2307707-016amsd	23 4.9 24.53 2000 981.4 I SampType: MSD	0 95.4 70 130 201 15 244 TestCode: EPA Method 8015D: Gasoline Range						
Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2307707-016amsd Client ID: BH23-09 4'	23 4.9 24.53 2000 981.4 I SampType: MSD Batch ID: 76285 Analysis Date: 7/19/2023	0 95.4 70 130 201 15 244 TestCode: EPA Method 8015D: Gasoline Range RunNo: 98328						
Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2307707-016amsd Client ID: BH23-09 4' Prep Date: 7/18/2023	23 4.9 24.53 2000 981.4 I SampType: MSD Batch ID: 76285 Analysis Date: 7/19/2023	0 95.4 70 130 201 15 244 TestCode: EPA Method 8015D: Gasoline Range RunNo: 98328 SeqNo: 3579634 Units: mg/Kg						

Qualifiers:

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

2307707

24-Jul-23

WO#:
Client:

Vertex Resources Services, Inc.

Project: North Pu	re Gold 8	i cuci al	011							
Sample ID: LCS-76285	SampT	Гуре: LC	s	Tes	tCode: EF	PA Method	8021B: Volatil	es		
Client ID: LCSS	Batch	h ID: 762	285	F	RunNo: 98	3328				
Prep Date: 7/18/2023	Analysis E)ate: 7/ *	19/2023	S	SeqNo: 3	578524	Units: mg/Kg	9		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.7	70	130			
Toluene	0.86	0.050	1.000	0	86.3	70	130			
Ethylbenzene	0.88	0.050	1.000	0	87.9	70	130			
Xylenes, Total	2.7	0.10	3.000	0	88.8	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.0	39.1	146			
Sample ID: mb-76285	SampT	Гуре: МВ	BLK	Tes	tCode: EF	PA Method	8021B: Volatil	es		
Client ID: PBS	Batch	h ID: 762	285	F	RunNo: 98	3328				
Prep Date: 7/18/2023	Analysis E)ate: 7/*	19/2023	S	SeqNo: 3	578525	Units: mg/Kg	9		
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	0.99		1.000		99.1	39.1	146			
Sample ID: LCS-76287	SampT	Гуре: LC	s	Tes	tCode: EF	PA Method	8021B: Volatil	es		
Client ID: LCSS	Batcl	h ID: 762	287	F	RunNo: 98	3328				
Prep Date: 7/18/2023	Analysis E)ate: 7/ *	19/2023	S	SeqNo: 3	579575	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	39.1	146			
Sample ID: mb-76287	SampT	Гуре: МВ	BLK	Tes	tCode: EF	PA Method	8021B: Volatil	es		
Sample ID: mb-76287 Client ID: PBS	·	Гуре: МВ h ID: 762			tCode: EF		8021B: Volatil	es		
·	·	h ID: 762	287	F		3328	8021B: Volatil Units: %Rec	es		
Client ID: PBS	Batch	h ID: 762	287 19/2023	F	RunNo: 98	3328		es %RPD	RPDLimit	Qual

Qualifiers:

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

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2307707

24-Jul-23

Client:

Vertex Resources Services, Inc.

Inite II D: Batch QC Batch ID: 76270 RunNo: 98320 ep Date: 7/17/2023 Analysis Date: 7/18/2023 SeqNo: 3578345 Units: mg/kg valyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual izere 0.92 0.025 1.000 0 91.6 80 120 izere 0.97 0.050 1.000 0 97.2 80 120 with: 1.29 0.10 3.000 0 95.4 80 120 with: 1.29 0.10 3.000 0 95.4 80 120 with: 1.29 0.10 3.000 0 95.4 80 120 with: 1.29 0.10 3.000 100 62.1 144 4 with: 4Biomofiluorohenzene 0.50 0.5000 99.5 70 130 with: PDL NB 718/2023 SeqNo: 3578346 Units: m	Project: North I	Pure Gold 8	Federal	011							
analysis Date: 7/18/2023 SeqNo: 3578345 Units: mg/Kg halyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual grene 0.92 0.025 1.000 0 91.6 80 120	Sample ID: Ics-76270	SampT	Гуре: LC	S4	Tes	tCode: EF	PA Method	8260B: Volati	les Short	List	
Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual zene 0.92 0.025 1.000 0 91.6 80 120 uene 0.94 0.050 1.000 0 94.4 80 120 ylbenzene 0.97 0.050 1.000 0 97.2 80 120 anes, Total 2.9 0.10 3.000 0 95.4 80 120 burr. 12.Dichloroethane-d4 0.52 0.5000 1015 64.8 147 burr. T2.Dichloroethane-d4 0.52 0.5000 108 73 145 burr. T2.Dichloroethane-d4 0.50 0.5000 98.7 130	Client ID: BatchQC	Batcl	h ID: 762	270	F	RunNo: 98	3320				
variant 0.92 0.025 1.000 0 91.6 80 120 uene 0.94 0.050 1.000 0 94.4 80 120 ylbenzene 0.97 0.050 1.000 0 97.2 80 120 anes, Total 2.9 0.10 3.000 0 95.4 80 120 surr: 1.2-Dichloroethane-d4 0.52 0.5000 105 64.8 147 Surr: 1.2-Dichloroethane-d4 0.52 0.5000 100 62.1 144 Surr: 12-Dichloroethane-d8 0.50 0.5000 108 73 145 Surr: Tollene-d8 0.50 0.5000 199.5 70 130 ample ID: mb-76270 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List ep Date: 7/17/2023 Analysis Date: 7/18/2023 SeqNo: 3578346 Units: mg/Kg uanyte Result PQL	Prep Date: 7/17/2023	Analysis I	Date: 7/	18/2023	5	SeqNo: 3	578345	Units: mg/K	g		
uene 0.94 0.050 1.000 0 94.4 80 120 ylbenzene 0.97 0.050 1.000 0 97.2 80 120 enes, Total 2.9 0.10 3.000 0 95.4 80 120 burr: 1,2-Dichloroethane-d4 0.52 0.500 105 64.8 147 burr: 1,2-Dichloroethane-d4 0.52 0.5000 100 62.1 144 burr: 1,2-Dichloroethane-d8 0.50 0.5000 108 73 145 burr: Dibromofluoromethane 0.50 0.5000 99.5 70 100 ample ID: mb-76270 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List 100 ep Date: 7/17/2023 Analysis Diz: 7/18/2023 SeqNo: 3578346 Units: mg/Kg enalyte Result PQL SPK value SPK Kef Val %REC LowLimit HighLimit %RPD RPDLimit Qual zene ND 0.050	Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ylbenzene 0.97 0.050 1.000 0 97.2 80 120 enes, Total 2.9 0.10 3.000 0 95.4 80 120 Surr: 1,2-Dichloroethane-d4 0.52 0.5000 105 64.8 147 Surr: 4-Bromofluorobenzene 0.50 0.5000 108 73 145 Surr: Toluene-d8 0.50 0.5000 99.5 70 130 ample ID: mb-76270 SampType: MBLK TestCode: EPA Method S260B: Volatiles Short List ep Date: 717/2023 Analysis Date: 718/2023 SeqNo: 3578346 Units: mg/Kg algte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual izene ND 0.025 ighenzene ND 0.050 </td <td>Benzene</td> <td>0.92</td> <td>0.025</td> <td>1.000</td> <td>0</td> <td>91.6</td> <td>80</td> <td>120</td> <td></td> <td></td> <td></td>	Benzene	0.92	0.025	1.000	0	91.6	80	120			
Annes, Total 2.9 0.10 3.000 0 95.4 80 120 Surr: 1,2-Dichloroethane-d4 0.52 0.5000 105 64.8 147 Surr: 2-Dichloroethane-d4 0.52 0.5000 100 62.1 144 Surr: 2-Dichloroethane 0.50 0.5000 108 73 145 Surr: Toluene-d8 0.50 0.5000 99.5 70 130 ample ID: mb-76270 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List ep Date: 7/17/2023 Analysis Date: 7/18/2023 SeqNo: 3578346 Units: mg/Kg alyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual izere ND 0.025 64.8 147 surr: 1,2-Dichloroethane-d4 0.54 0.5000 108 64.8 147	Toluene	0.94	0.050	1.000	0	94.4	80	120			
Sur: 1.2-Dichloroethane-d4 0.52 0.5000 105 64.8 147 Sur: 4-Bromofluorobenzene 0.50 0.5000 100 62.1 144 Sur: Dibromofluoromethane 0.54 0.5000 108 73 145 Sur: Toluene-d8 0.50 0.5000 99.5 70 130 ample ID: mb-76270 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List ep Date: 7/17/2023 Analysis Date: 7/18/2023 SeqNo: 3578346 Units: mg/Kg radyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual zene ND 0.050 SeqNo: 3578346 Units: mg/Kg uene ND 0.025 wit: 1,2-Dichloroethane-d4 0.50 wit: 12-Dichloroethane-d4 0.56 0.5000 108 64.8 147 Sur: 1,2-Dichloroethane-d4 0.56 0.5	Ethylbenzene	0.97	0.050	1.000	0	97.2	80	120			
Surr. 4-Bromofluorobenzene 0.50 0.5000 100 62.1 144 Surr. Dibromofluoromethane 0.54 0.5000 108 73 145 Surr. Toluene-d8 0.50 0.5000 99.5 70 130 ample ID: mb-76270 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List eint ID: PBS Batch ID: 76270 RunNo: 98320 Volatiles Short List Volatiles Nort List Volatiles Volatiles Nort List Volatiles Volatiles Nort List Volat Volatiles Nort	Xylenes, Total	2.9	0.10	3.000	0	95.4	80	120			
Burr: Dibromofluoromethane 0.54 0.500 108 73 145 Burr: Toluene-d8 0.50 0.5000 99.5 70 130 ample ID: mb-76270 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List ample ID: mb-76270 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List ep Date: 7/17/2023 Analysis Date: 7/18/2023 SeqNo: 3578346 Units: mg/Kg halyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual vigene ND 0.050	Surr: 1,2-Dichloroethane-d4	0.52		0.5000		105	64.8	147			
Surr: Toluene-d8 0.50 99.5 70 130 ample ID: mb-76270 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List ient ID: PBS Batch ID: 76270 RunNo: 98320 ep Date: 7/17/2023 Analysis Date: 7/18/2023 SeqNo: 3578346 Units: mg/Kg halyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual viene ND 0.025	Surr: 4-Bromofluorobenzene	0.50		0.5000		100	62.1	144			
Ample ID: mb-76270 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List ient ID: PBS Batch ID: 76270 RunNo: 98320 ep Date: 7/17/2023 Analysis Date: 7/18/2023 SeqNo: 3578346 Units: mg/Kg nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual izene ND 0.025	Surr: Dibromofluoromethane	0.54		0.5000		108	73	145			
Batch ID: 76270 RunNo: 98320 ep Date: 7/17/2023 Analysis Date: 7/18/2023 SeqNo: 3578346 Units: mg/Kg nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual value ND 0.025 Qual value ND 0.025	Surr: Toluene-d8	0.50		0.5000		99.5	70	130			
Analysis Date:7/17/2023SeqNo:3578346Units:mg/KgnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualnalyteND0.025	Sample ID: mb-76270	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8260B: Volati	les Short	List	
nalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual izene ND 0.025 -	Client ID: PBS	Batcl	h ID: 762	270	F	RunNo: 98	3320				
ND 0.025 Jene ND 0.050 ylbenzene ND 0.050 enes, Total ND 0.10 Surr: 1,2-Dichloroethane-d4 0.54 0.5000 108 64.8 147 Surr: 4-Bromofluorobenzene 0.50 0.5000 99.7 62.1 144 Surr: Dibromofluoromethane 0.56 0.5000 111 73 145	Prep Date: 7/17/2023	Analysis I	Date: 7/ *	18/2023	S	SeqNo: 3	578346	Units: mg/K	g		
ND 0.050 ylbenzene ND 0.050 enes, Total ND 0.10 Surr: 1,2-Dichloroethane-d4 0.54 0.5000 108 64.8 147 Surr: 4-Bromofluorobenzene 0.50 0.5000 99.7 62.1 144 Surr: Dibromofluoromethane 0.56 0.5000 111 73 145	Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ND 0.050 enes, Total ND 0.10 Surr: 1,2-Dichloroethane-d4 0.54 0.5000 108 64.8 147 Surr: 4-Bromofluorobenzene 0.50 0.5000 99.7 62.1 144 Surr: Dibromofluoromethane 0.56 0.5000 111 73 145	Benzene	ND	0.025								
ND 0.10 Surr: 1,2-Dichloroethane-d4 0.54 0.5000 108 64.8 147 Surr: 4-Bromofluorobenzene 0.50 0.5000 99.7 62.1 144 Surr: Dibromofluoromethane 0.56 0.5000 111 73 145	Toluene	ND	0.050								
Surr: 1,2-Dichloroethane-d40.540.500010864.8147Surr: 4-Bromofluorobenzene0.500.500099.762.1144Surr: Dibromofluoromethane0.560.500011173145	Ethylbenzene	ND	0.050								
Surr: 4-Bromofluorobenzene0.500.500099.762.1144Surr: Dibromofluoromethane0.560.500011173145	Xylenes, Total	ND	0.10								
Surr: Dibromofluoromethane 0.56 0.5000 111 73 145	Surr: 1,2-Dichloroethane-d4	0.54		0.5000		108	64.8	147			
	Surr: 4-Bromofluorobenzene	0.50		0.5000		99.7	62.1	144			
Gurr: Toluene-d8 0.50 0.5000 100 70 130	Surr: Dibromofluoromethane	0.56		0.5000		111	73	145			
	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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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24-Jul-23

	Resources Se are Gold 8 I	,								
Sample ID: Ics-76270	SampT	ype: LC	S	Tes	tCode: EF	A Method	8015D Mod: (Gasoline R	ange	
Client ID: LCSS	Batch	ID: 762	270	F	RunNo: 98	3320				
Prep Date: 7/17/2023	Analysis D	ate: 7/	18/2023	S	SeqNo: 35	578322	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.9	70	130			
Surr: BFB	490		500.0		99.0	70	130			
Sample ID: mb-76270	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	ange	
Client ID: PBS	Batch	ID: 762	270	F	RunNo: 98	3320				
Prep Date: 7/17/2023	Analysis D	ate: 7/	18/2023	S	SeqNo: 35	578323	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		94.4	70	130			

Qualifiers:

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

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2307707

24-Jul-23

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albu TEL: 505-345-3975 Website: www.hal	4901 Hawkins querque, NM 87 FAX: 505-345-4	NE 7109 Sam 9107	ple Log-In Che	eck List
Client Name: Vertex Resources Services, Inc.	Work Order Number:	2307707		RcptNo: 1	
Received By: Juan Rojas 7/	15/2023 7:30:00 AM		Guaranty		
Completed By: Juan Rojas 7/	15/2023 8:03:26 AM		Guanda g		
Reviewed By: SCM 07/17/23	@ 0734		,		
Chain of Custody					
1. Is Chain of Custody complete?		Yes	No 🗹	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
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 pro	eserved?	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 🔽	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	Νο		2 miless noted)
12. Are matrices correctly identified on Chain of Cus	tody?	Yes 🔽	No 🗌	Adjusted?	,
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		2110-23
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	1915165
Special Handling (if applicable)			7		
15. Was client notified of all discrepancies with this	order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date				
By Whom:	Via:	eMail 🗌 F	Phone 🗌 Fax	In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
Client missing mailing address, phone nu	mber, and email addre	ess. JR 7/15/2	3		
17. <u>Cooler Information</u>		Cool Data	Cigned Du		
Cooler No Temp °C Condition Seal I 1 1.7 Good No	Intact Seal No S Morty	Seal Date	Signed By		
	inorty				

Received by OCD: 5/14/2025 2:04:25 PM

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	kh29Ph	-644/2024	astody Record	Turn-Around	Time:					F		LL	E	NV	IF	20	NM		age 11 ITA	3 of 2
Client:		Vertex		Standard	X Rush	n3-day		-	5	_									TOF	
(direct l	hill to De	von-Harv	ard Divest, see Remarks)	Project Nam												tal.co				
	Address			North Pure	Gold 8 Federa	al 011		49	01 H								M 87'	109		
				Project #:			-		el. 50								4107			
Phone	#:			22E-02816-0)9								-			uest				
email o	r Fax#:			Project Mana	ager:		E.	ô					SO4			nt)				
QA/QC	Package			Kent Stalling	s		TMB's (8021)	/ MRO)	PCB's		MS		PO4, S			vbse				
🗆 Stan	dard		□ Level 4 (Full Validation)	kstallings@v	ertex.ca		3's (DRO /			1S07					int/A				
Accredi			ompliance	Sampler:	L.Pullman		IME		8082	4.1)	827		NO ₂ ,		-	rese				
	AC (Type)	Other		On Ice: # of Coolers:	Tes	I No Marty	- <u> </u>	SRO	Jes/	1 50	0 or	als	NO ₃ ,		VOA	n (P				
	(Type)]	Cooler Temp		.01-0-2= 1.7	MTBE	TPH:8015D(GRO	Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	Met		(A)	(Semi-VOA)	Coliform (Present/Absent)				
	•			Container	Preservative			801		₩)	s by	A 8	, B	ž	S) (Se	S				
Date	Time	Matrix	Sample Name	Type and #	Type	HEAL NO. 7307707	BTEX	H	8081	EDB	PAH	RCRA 8 Metals	Ci, F,	8260 (VOA)	8270	Total (
07/13/23	12:30	Soil	BH23-05 0'	1, 4oz jar		-001	x	х					x							
07/13/23	12:35	Soil	BH23-05 2'	1, 4oz jar		-002	x	x					x							
07/13/23	12:40	Soil	BH23-05 4'	1, 4oz jar		-603	x	x					х							
07/13/23	12:55	Soil	BH23-06 0'	1, 4oz jar		-004	x	x					x							
07/13/23	13:00	Soil	BH23-06 2'	1, 4oz jar		-005	x	x					x							
07/13/23	13:05	Soil	BH23-06 4'	1, 4oz jar		-00.6	x	x					x							
07/13/23	13:25	Soil	BH23-07 0'	1, 4oz jar		-007	x	x					x							
07/13/23	13:30	Soil	BH23-07 2'	1, 4oz jar		-008	x	x					x							
07/13/23	13:35	Soil	BH23-07 4'	1, 4oz jar		7009	x	x					x							
07/13/23	14:00	Soil	BH23-08 0'	1, 4oz jar		-010		х					x							
07/13/23	14:05	Soil	BH23-08 2'	1, 4oz jar		-111	x						x							
07/13/23	14:10	Soil	A BH23-08 4'	1, 4oz jar		-012	x	x					x							
Date:	Time:	Relinquish	ed dy	Received by:	Via:	Date Time	1.000		s: Di											
7-14-23	0750	Japan	hillin	acuun	M)	1/14/23 700			Dive ount				rth	Pure	Go	ld 8	Fede	ral 01	1	
1 1	Time:	Relinquish	ed by.	Received by:	Via:	Date Time	CC	1007	8849	901									11	h
114/23	1900	an	UUMAND	1	COUNCE	-7/15/237.50	Cc.	ksta	lling	s@v	erte	x.ca	for	Fina	al Re	epor	t		1/	L

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.

ceived b	eqceir	<u>19465</u>	રાકtödy Record	Turn-Aroun	d Time:														-	14 of 24
Client		Vertex		 □ Standa	rd X Rus	h3-day			E										INT	
(direct	bill to D	evon-Har	vard Divest, see Remarks)	Project Nar	ne:			-		1								KA	AIC	DRY
Mailing	g Addres	s:		North Dune												ntal.c				
				Project #:	Gold 8 Feder	ral 011	_	4	901 I	Hawl	kins	NE	- Al	buqu	Jerqu	ue, N	NM 87	7109		
Phone	#·			-				Т	el. 5	05-3	45-3		-				5-410	7		
	or Fax#:			22E-02816-								1	Anal	ysis	Rec	ques	it			
	Package			Project Man	-		E	/ MRO)					SO4			f)				
□ Star	-	•		Kent Stalling	-		(8021)	μ	PCB's		MS		04, 5			Total Coliform (Present/Absent)				
•			Level 4 (Full Validation)	kstallings@v	vertex.ca		3's (DRO			PAHs by 8310 or 8270SIMS		PO4,			ItA				
	itation:	□ Az Co □ Othe	ompliance	Sampler:	L.Pullman		TMB's	ļ ģ	Pesticides/8082	Ê.	827		NO ₂ ,			ese				
) (Type)				-Yes	□ No	- 1	l 02	es/8	504	o.	s			(A	(Pre				
		1		# of Coolers		Morty	MTBE	0	cide	pol	310	etal	NO ₃ ,	12	(Semi-VOA)	E				
				1		7-0-2=1.7	Ξ	1151	esti	Aeth	y 8	8	Ъ,	0)em	olifa				
Date	Time	Matrix	Sample Name	Container	Preservative	HEAL No.	BTEX	TPH:8015D(GRO	<u>п</u>	EDB (Method 504.1)	12	RCRA 8 Metals	ш. Ш.	8260 (VOA)	0 (5					
Date	Time	IVIALITIX	Sample Name	Type and #	Туре	2307707	BT	d	8081		ΡA	RC	с С	826	8270 (Tota				
07/13/23	14:15	Soil	BH23-08 6'	1, 4oz jar		-013	x	х					х			<u> </u>			-	++
07/13/23	14:25	Soil	BH23-09 0'	1, 4oz jar		-014	x	X					X		_			-+		+
07/13/23	14:30	Soil	BH23-09 2'	1, 4oz jar		-015	x	X					x				-+	-+-		
07/13/23	14:35	Soil	BH23-09 4'	1, 4oz jar		-016	x	X					x							
																-+	-+-			┥╾┥╴
											-					-+				+-+-
														-+		\rightarrow	-+-			+
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							-+	-+												+ $+$
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Date:	Time:	Relinquishe	p bygi	Received by:	Via:	Date Time	Rem	arka			<u> </u>									
1-14-13	otioo	Jok-	ullan /	ammi	•	nld	Rem Harv	ard	Dive	ect est S	ite -	- Noi	evoi rth 『	n, Da Dure	ale V Gol	000V	dall Feder	ral 0	11	
Date:	Fime:	Relinquishe	d by:	Received by:	Via:	Date Time	GL A	1cco	unt	7700	100	110	. ur f	ure	001	uor	GUGI	rai U		
14/23	1900	A ALL.		A	1	1 0	CC 1												כ	6
	100	winn	my	1 // /	1 Courier	- 715723 7230	çc. k	stall	lings	@ve	ertez	x.ca	for	Fina	l Re	port				12

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.



July 21, 2023

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

RE: North Pure Gold 8 Federal 011

OrderNo.: 2307708

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/15/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: Vertex Resources Services, Inc.

North Pure Gold 8 Federal 011

Analytical Report Lab Order 2307708

Date Reported: 7/21/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-06 6' Collection Date: 7/13/2023 1:15:00 PM Received Date: 7/15/2023 7:30:00 AM

Lab ID: 2307708-001	Matrix: SOIL	Rece	eived Date:	7/15/2	2023 7:30:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/19/2023 8:53:57 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/19/2023 8:53:57 PM
Surr: DNOP	95.6	69-147	%Rec	1	7/19/2023 8:53:57 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/19/2023 11:52:32 AM
Surr: BFB	89.8	15-244	%Rec	1	7/19/2023 11:52:32 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	7/19/2023 11:52:32 AM
Toluene	ND	0.048	mg/Kg	1	7/19/2023 11:52:32 AM
Ethylbenzene	ND	0.048	mg/Kg	1	7/19/2023 11:52:32 AM
Xylenes, Total	ND	0.097	mg/Kg	1	7/19/2023 11:52:32 AM
Surr: 4-Bromofluorobenzene	98.3	39.1-146	%Rec	1	7/19/2023 11:52:32 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	400	60	mg/Kg	20	7/19/2023 2:50:13 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 1 of 5

Client: Project:		tex Resources S th Pure Gold 8	,								
Sample ID:	MB-76320	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	300.0: Anions	;		
Client ID:	PBS	Batch	n ID: 763	320	F	RunNo: 98	3352				
Prep Date:	7/19/2023	Analysis D	Date: 7/	19/2023	S	SeqNo: 3	580011	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-76320	SampT	ype: LC	S	Tes	tCode: EF	PA Method	300.0: Anions	;		
Client ID:	LCSS	Batch	n ID: 763	320	F	RunNo: 98	3352				
Prep Date:	7/19/2023	Analysis D	Date: 7/	19/2023	S	SeqNo: 35	580012	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.1	90	110			

Qualifiers:

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

2307708

21-Jul-23

5.1

Page 1	18 0	f 248
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Hall Environment			aborato	ry, Inc.					WO#:	2307708 21-Jul-23
	Resources S ure Gold 8	,								
Sample ID: MB-76297	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batcl	h ID: 762	297	F	RunNo: 98	8349				
Prep Date: 7/18/2023	Analysis I	Date: 7/	19/2023	:	SeqNo: 3	579967	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.8	69	147			
Sample ID: LCS-76297	SampT	Type: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batcl	h ID: 762	297	F	RunNo: 98	8349				
Prep Date: 7/18/2023	Analysis [Date: 7/	19/2023	:	SeqNo: 3	579968	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	109	61.9	130			

102

69

147

5.000

Qualifiers:

Surr: DNOP

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

Page 3 of 5

	Resources Se ure Gold 8 F									
Sample ID: Ics-76285	SampTy	/pe: LC	S	Tes	tCode: EF	PA Method	8015D: Gasol	line Range		
Client ID: LCSS	Batch	ID: 762	285	F	RunNo: 98	3328				
Prep Date: 7/18/2023	Analysis Da	ate: 7/ ′	19/2023	S	SeqNo: 35	578519	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.0	70	130			
Surr: BFB	1900		1000		187	15	244			
Sample ID: mb-76285	SampTy	/pe: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: PBS	Batch	ID: 762	285	F	RunNo: 98	3328				
Prep Date: 7/18/2023	Analysis Da	ate: 7/ '	19/2023	S	SeqNo: 35	578520	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		91.4	15	244			

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

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2307708

21-Jul-23

Client:

Project:

Sample ID: LCS-76285

Vertex Resources Services, Inc.

North Pure Gold 8 Federal 011

SampType: LCS

Released to Imaging:	6/9/2025	2:25:32 PM

-															
Client ID: L	LCSS	Batch ID: 76285 RunNo: 98328					3328	28							
Prep Date:	7/18/2023	Analysis [Date: 7/	19/2023	S	SeqNo: 3	578524	Units: mg/K	g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene		0.84	0.025	1.000	0	83.7	70	130							
Toluene		0.86	0.050	1.000	0	86.3	70	130							
Ethylbenzene		0.88	0.050	1.000	0	87.9	70	130							
Xylenes, Total		2.7	0.10	3.000	0	88.8	70	130							
Surr: 4-Bromo	ofluorobenzene	0.98		1.000		98.0	39.1	146							
Sample ID: r	mb-76285	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volati	les						
Client ID: F	PBS	Batc	h ID: 762	285	F	RunNo: 9 8	3328								
Prep Date:	7/18/2023	Analysis [Date: 7/	19/2023	S	SeqNo: 3	578525	Units: mg/K	g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene		ND	0.025												
Toluene		ND	0.050												
Ethylbenzene		ND	0.050												
Xylenes, Total		ND	0.10												
Surr: 4-Bromo	ofluorobenzene	0.99		1.000		99.1	39.1	146							
			SampType: MS TestCode: EPA Method 8021B: Volatiles												
Sample ID: 2	2307708-001ams	Samp	Гуре: МS	;	Tes	tCode: Ef	PA Method	8021B: Volati	les						
	2307708-001ams BH23-06 6'	•	Гуре: МS h ID: 76 2			tCode: Ef RunNo: 9 8		8021B: Volati	les						
Client ID: E		•	h ID: 762	285	F		3328	8021B: Volati Units: mg/K							
Client ID: E	BH23-06 6'	Batc	h ID: 762	285	F	RunNo: 9 8	3328			RPDLimit	Qual				
Client ID: E Prep Date:	BH23-06 6'	Batc Analysis [h ID: 76 2 Date: 7/	285 19/2023	F	RunNo: 9 8 SeqNo: 3 8	3328 579625	Units: mg/K	g	RPDLimit	Qual				
Client ID: E Prep Date: Analyte	BH23-06 6'	Batc Analysis [Result	h ID: 762 Date: 7/ PQL	285 19/2023 SPK value	F S SPK Ref Val	RunNo: 98 SeqNo: 38 %REC	3328 579625 LowLimit	Units: mg/K HighLimit	g	RPDLimit	Qual				
Client ID: E Prep Date: Analyte Benzene	BH23-06 6'	Batc Analysis I Result 0.90	h ID: 762 Date: 7/ PQL 0.024	285 19/2023 SPK value 0.9625	F SPK Ref Val 0	RunNo: 98 SeqNo: 38 <u>%REC</u> 94.0	3328 579625 LowLimit 70	Units: mg/K HighLimit 130	g	RPDLimit	Qual				
Client ID: E Prep Date: Analyte Benzene Toluene	BH23-06 6'	Batc Analysis I Result 0.90 0.94	h ID: 762 Date: 7/ PQL 0.024 0.048	285 19/2023 SPK value 0.9625 0.9625	F SPK Ref Val 0 0	RunNo: 98 SeqNo: 3 %REC 94.0 97.5	3328 579625 LowLimit 70 70	Units: mg/K HighLimit 130 130	g	RPDLimit	Qual				
Client ID: E Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	BH23-06 6'	Batc Analysis I Result 0.90 0.94 0.96	h ID: 762 Date: 7 / PQL 0.024 0.048 0.048	285 19/2023 SPK value 0.9625 0.9625 0.9625	F SPK Ref Val 0 0 0	RunNo: 9 8 SeqNo: 3 8 <u>%REC</u> 94.0 97.5 100	3328 579625 LowLimit 70 70 70	Units: mg/K HighLimit 130 130 130	g	RPDLimit	Qual				
Client ID: E Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromo	BH23-06 6' 7/18/2023	Batc Analysis I Result 0.90 0.94 0.96 2.9 1.0	h ID: 762 Date: 7 / PQL 0.024 0.048 0.048	285 19/2023 SPK value 0.9625 0.9625 0.9625 2.887 0.9625	F SPK Ref Val 0 0 0 0	RunNo: 98 SeqNo: 38 %REC 94.0 97.5 100 101 105	3328 579625 LowLimit 70 70 70 70 39.1	Units: mg/K HighLimit 130 130 130 130	g %RPD	RPDLimit	Qual				
Client ID: E Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromo	BH23-06 6' 7/18/2023 ofluorobenzene	Batc Analysis I Result 0.90 0.94 0.96 2.9 1.0 Samp	h ID: 762 Date: 7/ PQL 0.024 0.048 0.048 0.096	285 19/2023 SPK value 0.9625 0.9625 0.9625 2.887 0.9625 30	F SPK Ref Val 0 0 0 0 0 Tes	RunNo: 98 SeqNo: 38 %REC 94.0 97.5 100 101 105	3328 579625 LowLimit 70 70 70 70 70 39.1	Units: mg/K HighLimit 130 130 130 130 146	g %RPD	RPDLimit	Qual				
Client ID: E Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromo Sample ID: 2 Client ID: E	BH23-06 6' 7/18/2023 ofluorobenzene 2307708-001amsd	Batc Analysis I Result 0.90 0.94 0.96 2.9 1.0 Samp	h ID: 762 Date: 7/ PQL 0.024 0.048 0.048 0.096 Type: MS h ID: 762	285 19/2023 SPK value 0.9625 0.9625 2.887 0.9625 30 285	F SPK Ref Val 0 0 0 0 Tes F	RunNo: 98 SeqNo: 38 %REC 94.0 97.5 100 101 105 ttCode: Ef	3328 579625 LowLimit 70 70 70 70 39.1 PA Method 3328	Units: mg/K HighLimit 130 130 130 130 146	g %RPD	RPDLimit	Qual				
Client ID: E Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromo Sample ID: 2 Client ID: E	BH23-06 6' 7/18/2023 ofluorobenzene 2307708-001amsd BH23-06 6'	Batc Analysis I Result 0.90 0.94 0.96 2.9 1.0 Samp Batc	h ID: 762 Date: 7/ PQL 0.024 0.048 0.048 0.096 Type: MS h ID: 762	285 19/2023 SPK value 0.9625 0.9625 2.887 0.9625 2.887 0.9625 5D 285 19/2023	F SPK Ref Val 0 0 0 0 Tes F	RunNo: 94 SeqNo: 34 %REC 94.0 97.5 100 101 105 ttCode: EF	3328 579625 LowLimit 70 70 70 70 39.1 PA Method 3328	Units: mg/K HighLimit 130 130 130 130 146 8021B: Volati	g %RPD	RPDLimit	Qual				
Client ID: E Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromo Sample ID: 2 Client ID: E Prep Date:	BH23-06 6' 7/18/2023 ofluorobenzene 2307708-001amsd BH23-06 6'	Batc Analysis I Result 0.90 0.94 0.96 2.9 1.0 Samp Batc Analysis I	h ID: 762 Date: 7/ PQL 0.024 0.048 0.048 0.048 0.048 0.096 Type: MS Type: MS Date: 7/	285 19/2023 SPK value 0.9625 0.9625 2.887 0.9625 2.887 0.9625 5D 285 19/2023	F SPK Ref Val 0 0 0 0 0 Tes F	RunNo: 98 SeqNo: 38 %REC 94.0 97.5 100 101 105 etCode: EF RunNo: 98 SeqNo: 38	3328 579625 LowLimit 70 70 70 39.1 PA Method 3328 579627	Units: mg/K HighLimit 130 130 130 130 146 8021B: Volati	g %RPD les						
Client ID: E Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromo Sample ID: 2 Client ID: E Prep Date: Analyte	BH23-06 6' 7/18/2023 ofluorobenzene 2307708-001amsd BH23-06 6'	Batc Analysis I Result 0.90 0.94 0.96 2.9 1.0 Samp Batc Analysis I Result	h ID: 762 Date: 7/ PQL 0.024 0.048 0.048 0.048 0.096 Fype: MS h ID: 762 Date: 7/ PQL	285 19/2023 SPK value 0.9625 0.9625 2.887 0.9625 2.887 0.9625 50 285 19/2023 SPK value	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val	RunNo: 93 SeqNo: 33 %REC 94.0 97.5 100 101 105 ttCode: EF RunNo: 93 SeqNo: 33 %REC	3328 579625 LowLimit 70 70 70 39.1 PA Method 3328 579627 LowLimit	Units: mg/K HighLimit 130 130 130 130 146 8021B: Volati Units: mg/K HighLimit	g %RPD les g %RPD	RPDLimit					
Client ID: E Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromo Sample ID: 2 Client ID: E Prep Date: Analyte Benzene	BH23-06 6' 7/18/2023 ofluorobenzene 2307708-001amsd BH23-06 6'	Batc Analysis I Result 0.90 0.94 0.96 2.9 1.0 Samp Batc Analysis I Result 0.87	h ID: 762 Date: 7/ PQL 0.024 0.048 0.048 0.096 Type: MS h ID: 762 Date: 7/ PQL 0.024	285 19/2023 SPK value 0.9625 0.9625 2.887 0.9625 2.887 0.9625 50 285 19/2023 SPK value 0.9718	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val 0	RunNo: 93 SeqNo: 33 %REC 94.0 97.5 100 101 105 ttCode: Ef RunNo: 93 SeqNo: 33 %REC 89.7	3328 579625 LowLimit 70 70 70 39.1 PA Method 3328 579627 LowLimit 70	Units: mg/K HighLimit 130 130 130 130 146 8021B: Volati Units: mg/K HighLimit 130	9 %RPD les 9 %RPD 3.73	RPDLimit 20					
Client ID: E Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromo Sample ID: 2 Client ID: E Prep Date: Analyte Benzene Toluene	BH23-06 6' 7/18/2023 ofluorobenzene 2307708-001amsd BH23-06 6'	Batc Analysis I Result 0.90 0.94 0.96 2.9 1.0 Samp Batc Analysis I Result 0.87 0.91	h ID: 762 Date: 7/ PQL 0.024 0.048 0.096 Type: MS h ID: 762 Date: 7/ PQL 0.024 0.024 0.049	285 19/2023 SPK value 0.9625 0.9625 2.887 0.9625 2.887 0.9625 50 285 19/2023 SPK value 0.9718 0.9718	F SPK Ref Val 0 0 0 0 Tes 5 SPK Ref Val 0 0	RunNo: 94 SeqNo: 34 %REC 94.0 97.5 100 101 105 ttCode: Ef RunNo: 94 SeqNo: 34 %REC 89.7 93.4	3328 579625 LowLimit 70 70 70 70 39.1 PA Method 3328 579627 LowLimit 70 70 70 70 70 70 70 70 70 70	Units: mg/K HighLimit 130 130 130 130 130 146 8021B: Volati 8021B: Volati Units: mg/K HighLimit 130 130	9 %RPD les 9 %RPD 3.73 3.38	RPDLimit 20 20					

TestCode: EPA Method 8021B: Volatiles

Qualifiers:

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

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Alba TEL: 505-345-3975 Website: www.ha	4901 Hawki uquerque, NM FAX: 505-345	ins NE 87109 S 5-4107	Sam	ple Log-In C	Check List
Client Name: Vertex Resources V Services, Inc.	Vork Order Number	2307708			RcptNo	: 1
Received By: Juan Rojas 7/1	5/2023 7:30:00 AM		Gian. Gian.	s.g		
Completed By: Juan Rojas 7/1	5/2023 8:18:53 AM		Guan	s.g		
Reviewed By: SCM 07/73 C	0734		,			
Chain of Custody				_	_	
1. Is Chain of Custody complete?		Yes	No	\checkmark	Not Present	
2. How was the sample delivered?		<u>Courier</u>				
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 pre	served?	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 🗹	
0. Were any sample containers received broken?		Yes 🗌	No		# of preserved bottles checked	
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No		,	or >12 unless noted)
2. Are matrices correctly identified on Chain of Cust	ody?	Yes 🗹	No		Adjusted?	
3. Is it clear what analyses were requested?		Yes 🗹	No			· alicha
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes 🗹	No	Ц.	Checked by:	Ju+15/2
Special Handling (if applicable)						
15. Was client notified of all discrepancies with this o	order?	Yes	No		NA 🗹	-
Person Notified:	Date					
By Whom:	Via:	eMail	Phone	Fax	In Person	
Regarding:						
Client Instructions:		= =	= = =			
16. Additional remarks:						
Client missing mailing address, phone nun	ber and email addr	ess. JR 7/15/	23			
17. <u>Cooler Information</u>		Coal Data	Cianad	Du		
Cooler No Temp °C Condition Seal Ir 1 1.7 Good No	Morty	Seal Date	Signed	Бу		
D						
Page 1 of 1						

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eceived	y Pan	5/14/2025	13toolfMRecord	Turn-Around	Time:						Page	122	of 248									
Client:		Vertex		🗆 Standard		13-day														TC		
(direct b	oill to De	von-Harv	ard Divest, see Remarks)	Project Nam	e:			www.hallenvironmental.com														
	Address			North Pure	Gold 8 Federa	al 011		4901 Hawkins NE - Albuquerque, NM 87109														
				Project #:				Tel. 505-345-3975 Fax 505-345-4107														
Phone 7	<i>#</i> .			_ 22E-02816-0	19				10							CONTRACTOR OF STREET,	uest	and the second second				
				Project Mana					â					SO4								
email or Fax#: QA/QC Package:			Kent Stalling	-			021	TPH:8015D(GRO / DRO / MRO)	s's		S		, SC			ser						
□ Stan	-		Level 4 (Full Validation)	-				s (8	10	PCB's		SIN		PO4,			tAb					
Accredi			ompliance	kstallings@vertex.ca Sampler: L.Pullman			TMB's (8021)	DR		<u>_</u>	270		NO ₂ ,			sen						
		□ A2 C0		On Ice: Ves INO			A N N A A A A A A A A A A A A A A A A A															
				# of Coolers:			MTBE	GR	ide	od 5	10	etals	Br, NO ₃ ,		- CO	E						
				Cooler Temp	(including CF):	.9-0-2=17		Σ	15D	stic	ethe	V 83	Ň		OA	emi	olifo					
				Container	Preservative			\mathbf{x}	80	a l	Σ	ls b	₹8		2	s) (Ŭ					
Date	Time	Matrix	Sample Name	Type and #	Type	HEAL NO. 230970	0	BTEX /	Hd	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CI, F	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
07/13/23		Soil	BH23-06 6'	1, 4oz jar		-001	0	x	x				_	x								
01/13/23	10.10	001		1, 402 jai		001						-		~		_						
															-							_
						12																
Date:	Time:	Relinquish	ed by:	Received by:	Via:	Date Time					irect									L	1	
7-14-23	07100	Daten		MAMAA	Im	7/14/25 700	3	1011010			est S			orth	Pure	e Go	old 8	Fed	eral	011		
Date:	Time:	Relinquish	ed by:	Received by:	Via:	Date Time			ACCC 1007		770 901	0100	,								ŝ	
1433	1900	acus	ma	1	Frouvier	7/15/277					s@v	erte	ex.ca	ı for	Fin	al R	epor	t			4	1
<u> </u>			pmitted to Hall Environmental may be sub	contracted to other		es. This serves as notice	e of this	possil	bility. /	Any su	ıb-cont	racted	data	will be	e clear	ly nota	ited on	the ar	nalytica	I report	t.	



July 28, 2023

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

RE: North Pure Gold Federal 011

OrderNo.: 2307747

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 46 sample(s) on 7/18/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: Vertex Resources Services, Inc.

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-10 0' Collection Date: 7/14/2023 8:00:00 AM Received Date: 7/18/2023 7:10:00 AM

Lab ID: 2307747-001	Matrix: SOIL	Received Date: 7/18/2023 7:10:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD			
Diesel Range Organics (DRO)	13	8.9	mg/Kg	1	7/19/2023 9:14:53 PM			
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	7/19/2023 9:14:53 PM			
Surr: DNOP	93.7	69-147	%Rec	1	7/19/2023 9:14:53 PM			
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst: JJP			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/19/2023 12:16:08 PM			
Surr: BFB	91.8	15-244	%Rec	1	7/19/2023 12:16:08 PM			
EPA METHOD 8021B: VOLATILES					Analyst: JJP			
Benzene	ND	0.024	mg/Kg	1	7/19/2023 12:16:08 PM			
Toluene	ND	0.048	mg/Kg	1	7/19/2023 12:16:08 PM			
Ethylbenzene	ND	0.048	mg/Kg	1	7/19/2023 12:16:08 PM			
Xylenes, Total	ND	0.097	mg/Kg	1	7/19/2023 12:16:08 PM			
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	7/19/2023 12:16:08 PM			
EPA METHOD 300.0: ANIONS					Analyst: JMT			
Chloride	2900	150	mg/Kg	50	7/20/2023 9:00:00 PM			

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 1 of 57

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-10 2' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 8:25:00 AM Lab ID: 2307747-002 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) 13 9.6 7/19/2023 9:36:00 PM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) ND 1 7/19/2023 9:36:00 PM 48 Surr: DNOP 96.0 %Rec 1 7/19/2023 9:36:00 PM 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 7/19/2023 12:39:46 PM Surr: BFB 1 7/19/2023 12:39:46 PM 96.8 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.023 mg/Kg 1 7/19/2023 12:39:46 PM Toluene ND 0.047 mg/Kg 1 7/19/2023 12:39:46 PM Ethylbenzene 7/19/2023 12:39:46 PM ND 0.047 mg/Kg 1 Xylenes, Total ND 0.094 mg/Kg 1 7/19/2023 12:39:46 PM %Rec Surr: 4-Bromofluorobenzene 106 39.1-146 1 7/19/2023 12:39:46 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 7/19/2023 3:15:02 PM 550 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

Р Sample pH Not In Range RL

Reporting Limit

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CLIENT: Vertex Resources Services, Inc.

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-11 0' Collection Date: 7/14/2023 7:55:00 AM **Received Date:** 7/18/2023 7:10:00 AM

Lab ID: 2307747-003	Matrix: SOIL	Received Date: 7/18/2023 7:10:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD			
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/19/2023 9:57:12 PM			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/19/2023 9:57:12 PM			
Surr: DNOP	92.0	69-147	%Rec	1	7/19/2023 9:57:12 PM			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/19/2023 1:03:28 PM			
Surr: BFB	93.2	15-244	%Rec	1	7/19/2023 1:03:28 PM			
EPA METHOD 8021B: VOLATILES					Analyst: JJP			
Benzene	ND	0.025	mg/Kg	1	7/19/2023 1:03:28 PM			
Toluene	ND	0.049	mg/Kg	1	7/19/2023 1:03:28 PM			
Ethylbenzene	ND	0.049	mg/Kg	1	7/19/2023 1:03:28 PM			
Xylenes, Total	ND	0.098	mg/Kg	1	7/19/2023 1:03:28 PM			
Surr: 4-Bromofluorobenzene	103	39.1-146	%Rec	1	7/19/2023 1:03:28 PM			
EPA METHOD 300.0: ANIONS					Analyst: JMT			
Chloride	16000	610	mg/Kg	200	7/20/2023 9:12:25 PM			

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 3 of 57

CLIENT: Vertex Resources Services, Inc.

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-11 2' Collection Date: 7/14/2023 8:00:00 AM Received Date: 7/18/2023 7:10:00 AM

Lab ID: 2307747-004	Matrix: SOIL	Reco	Received Date: 7/18/2023 7:10:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD				
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	7/19/2023 10:17:31 PM				
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	7/19/2023 10:17:31 PM				
Surr: DNOP	95.3	69-147	%Rec	1	7/19/2023 10:17:31 PM				
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP				
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/19/2023 1:27:14 PM				
Surr: BFB	95.2	15-244	%Rec	1	7/19/2023 1:27:14 PM				
EPA METHOD 8021B: VOLATILES					Analyst: JJP				
Benzene	ND	0.023	mg/Kg	1	7/19/2023 1:27:14 PM				
Toluene	ND	0.047	mg/Kg	1	7/19/2023 1:27:14 PM				
Ethylbenzene	ND	0.047	mg/Kg	1	7/19/2023 1:27:14 PM				
Xylenes, Total	ND	0.094	mg/Kg	1	7/19/2023 1:27:14 PM				
Surr: 4-Bromofluorobenzene	104	39.1-146	%Rec	1	7/19/2023 1:27:14 PM				
EPA METHOD 300.0: ANIONS					Analyst: SNS				
Chloride	630	60	mg/Kg	20	7/19/2023 3:39:52 PM				

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

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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CLIENT: Vertex Resources Services, Inc.

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-12 0' Collection Date: 7/14/2023 8:15:00 AM Received Date: 7/18/2023 7:10:00 AM

Lab ID: 2307747-005	Matrix: SOIL	Received Date: 7/18/2023 7:10:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD			
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/19/2023 10:38:27 PM			
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/19/2023 10:38:27 PM			
Surr: DNOP	95.0	69-147	%Rec	1	7/19/2023 10:38:27 PM			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/19/2023 1:50:58 PM			
Surr: BFB	96.2	15-244	%Rec	1	7/19/2023 1:50:58 PM			
EPA METHOD 8021B: VOLATILES					Analyst: JJP			
Benzene	ND	0.024	mg/Kg	1	7/19/2023 1:50:58 PM			
Toluene	ND	0.048	mg/Kg	1	7/19/2023 1:50:58 PM			
Ethylbenzene	ND	0.048	mg/Kg	1	7/19/2023 1:50:58 PM			
Xylenes, Total	ND	0.095	mg/Kg	1	7/19/2023 1:50:58 PM			
Surr: 4-Bromofluorobenzene	105	39.1-146	%Rec	1	7/19/2023 1:50:58 PM			
EPA METHOD 300.0: ANIONS					Analyst: SNS			
Chloride	ND	60	mg/Kg	20	7/19/2023 4:17:05 PM			

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

Qualifiers:

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

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EPA METHOD 300.0: ANIONS

Chloride

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-12 2' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 8:20:00 AM Lab ID: 2307747-006 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) ND 9.3 7/19/2023 10:59:03 PM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) 1 7/19/2023 10:59:03 PM ND 47 Surr: DNOP 96.8 69-147 %Rec 1 7/19/2023 10:59:03 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 7/19/2023 2:14:47 PM Surr: BFB 95.3 1 7/19/2023 2:14:47 PM 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.025 mg/Kg 1 7/19/2023 2:14:47 PM Toluene ND 0.049 mg/Kg 1 7/19/2023 2:14:47 PM Ethylbenzene 7/19/2023 2:14:47 PM ND 0.049 mg/Kg 1 Xylenes, Total ND 0.099 mg/Kg 1 7/19/2023 2:14:47 PM %Rec Surr: 4-Bromofluorobenzene 104 39.1-146 1 7/19/2023 2:14:47 PM

71

60

mg/Kg

20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

Р Sample pH Not In Range RL

Reporting Limit

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Analyst: SNS

7/19/2023 4:29:29 PM

CLIENT: Vertex Resources Services, Inc.

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-13 0' Collection Date: 7/14/2023 8:30:00 AM Received Date: 7/18/2023 7:10:00 AM

Lab ID: 2307747-007	Matrix: SOIL	Rece	7/18/2	/18/2023 7:10:00 AM			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD		
Diesel Range Organics (DRO)	26	9.7	mg/Kg	1	7/19/2023 11:20:08 PM		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/19/2023 11:20:08 PM		
Surr: DNOP	99.1	69-147	%Rec	1	7/19/2023 11:20:08 PM		
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/19/2023 2:38:33 PM		
Surr: BFB	96.8	15-244	%Rec	1	7/19/2023 2:38:33 PM		
EPA METHOD 8021B: VOLATILES					Analyst: JJP		
Benzene	ND	0.025	mg/Kg	1	7/19/2023 2:38:33 PM		
Toluene	ND	0.049	mg/Kg	1	7/19/2023 2:38:33 PM		
Ethylbenzene	ND	0.049	mg/Kg	1	7/19/2023 2:38:33 PM		
Xylenes, Total	ND	0.098	mg/Kg	1	7/19/2023 2:38:33 PM		
Surr: 4-Bromofluorobenzene	103	39.1-146	%Rec	1	7/19/2023 2:38:33 PM		
EPA METHOD 300.0: ANIONS					Analyst: SNS		
Chloride	110	60	mg/Kg	20	7/19/2023 4:41:54 PM		

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

Qualifiers:

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

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CLIENT: Vertex Resources Services, Inc.

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-13 2' Collection Date: 7/14/2023 8:35:00 AM Received Date: 7/18/2023 7:10:00 AM

Lab ID: 2307747-008	Matrix: SOIL	Received Date: 7/18/2023 7:10:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD			
Diesel Range Organics (DRO)	18	9.6	mg/Kg	1	7/19/2023 11:40:45 PM			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/19/2023 11:40:45 PM			
Surr: DNOP	97.3	69-147	%Rec	1	7/19/2023 11:40:45 PM			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/19/2023 3:02:26 PM			
Surr: BFB	95.6	15-244	%Rec	1	7/19/2023 3:02:26 PM			
EPA METHOD 8021B: VOLATILES					Analyst: JJP			
Benzene	ND	0.023	mg/Kg	1	7/19/2023 3:02:26 PM			
Toluene	ND	0.047	mg/Kg	1	7/19/2023 3:02:26 PM			
Ethylbenzene	ND	0.047	mg/Kg	1	7/19/2023 3:02:26 PM			
Xylenes, Total	ND	0.093	mg/Kg	1	7/19/2023 3:02:26 PM			
Surr: 4-Bromofluorobenzene	105	39.1-146	%Rec	1	7/19/2023 3:02:26 PM			
EPA METHOD 300.0: ANIONS					Analyst: SNS			
Chloride	200	60	mg/Kg	20	7/19/2023 4:54:19 PM			

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-14 0' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 8:50:00 AM Lab ID: 2307747-009 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) 15 7/20/2023 12:22:44 AM 9.8 mg/Kg 1 Motor Oil Range Organics (MRO) ND 1 7/20/2023 12:22:44 AM 49 mg/Kg Surr: DNOP 95.5 69-147 %Rec 1 7/20/2023 12:22:44 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 7/19/2023 3:50:11 PM Surr: BFB 1 7/19/2023 3:50:11 PM 94.4 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.025 mg/Kg 1 7/19/2023 3:50:11 PM Toluene ND 0.049 mg/Kg 1 7/19/2023 3:50:11 PM Ethylbenzene 7/19/2023 3:50:11 PM ND 0.049 mg/Kg 1 Xylenes, Total ND 0.098 mg/Kg 1 7/19/2023 3:50:11 PM Surr: 4-Bromofluorobenzene 103 39.1-146 %Rec 1 7/19/2023 3:50:11 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride ND 7/19/2023 5:06:44 PM 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

P Sample pH Not In Range RL Reporting Limit

RL Rep

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Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-14 2' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 9:00:00 AM Lab ID: 2307747-010 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) ND 9.6 7/20/2023 12:43:11 AM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) ND 1 7/20/2023 12:43:11 AM 48 Surr: DNOP 100 %Rec 1 7/20/2023 12:43:11 AM 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 7/19/2023 4:14:07 PM Surr: BFB 1 7/19/2023 4:14:07 PM 97.9 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.025 mg/Kg 1 7/19/2023 4:14:07 PM Toluene ND 0.050 mg/Kg 1 7/19/2023 4:14:07 PM Ethylbenzene 7/19/2023 4:14:07 PM ND 0.050 mg/Kg 1 Xylenes, Total ND 0.099 mg/Kg 1 7/19/2023 4:14:07 PM %Rec Surr: 4-Bromofluorobenzene 107 39.1-146 1 7/19/2023 4:14:07 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride ND 7/19/2023 5:19:08 PM 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 10 of 57

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2307747-011

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-15 0' Collection Date: 7/14/2023 8:50:00 AM Received Date: 7/18/2023 7:10:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: PRD			
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/20/2023 1:03:34 AM			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/20/2023 1:03:34 AM			
Surr: DNOP	98.7	69-147	%Rec	1	7/20/2023 1:03:34 AM			
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/19/2023 4:38:00 PM			
Surr: BFB	96.7	15-244	%Rec	1	7/19/2023 4:38:00 PM			
EPA METHOD 8021B: VOLATILES					Analyst: JJP			
Benzene	ND	0.023	mg/Kg	1	7/19/2023 4:38:00 PM			
Toluene	ND	0.047	mg/Kg	1	7/19/2023 4:38:00 PM			
Ethylbenzene	ND	0.047	mg/Kg	1	7/19/2023 4:38:00 PM			
Xylenes, Total	ND	0.094	mg/Kg	1	7/19/2023 4:38:00 PM			
Surr: 4-Bromofluorobenzene	106	39.1-146	%Rec	1	7/19/2023 4:38:00 PM			
EPA METHOD 300.0: ANIONS					Analyst: JMT			
Chloride	520	60	mg/Kg	20	7/20/2023 1:58:04 PM			

Matrix: SOIL

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

Qualifiers:

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

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Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-15 2' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 9:00:00 AM Lab ID: 2307747-012 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) ND 7/20/2023 1:23:47 AM 9.8 mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) ND 1 7/20/2023 1:23:47 AM 49 Surr: DNOP 104 69-147 %Rec 1 7/20/2023 1:23:47 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 7/19/2023 5:01:49 PM Surr: BFB 95.3 1 7/19/2023 5:01:49 PM 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.025 mg/Kg 1 7/19/2023 5:01:49 PM Toluene ND 0.049 mg/Kg 1 7/19/2023 5:01:49 PM Ethylbenzene 7/19/2023 5:01:49 PM ND 0.049 mg/Kg 1 Xylenes, Total ND 0.099 mg/Kg 1 7/19/2023 5:01:49 PM %Rec Surr: 4-Bromofluorobenzene 105 39.1-146 1 7/19/2023 5:01:49 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 360 7/20/2023 2:35:17 PM 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

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

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Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-16 0' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 9:05:00 AM Lab ID: 2307747-013 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) ND 8.7 7/20/2023 1:44:09 AM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) 1 7/20/2023 1:44:09 AM ND 44 Surr: DNOP 87.6 %Rec 1 7/20/2023 1:44:09 AM 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 7/19/2023 5:25:34 PM Surr: BFB 92.5 1 7/19/2023 5:25:34 PM 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 1 7/19/2023 5:25:34 PM Toluene ND 0.047 mg/Kg 1 7/19/2023 5:25:34 PM Ethylbenzene 7/19/2023 5:25:34 PM ND 0.047 mg/Kg 1 Xylenes, Total ND 0.095 mg/Kg 1 7/19/2023 5:25:34 PM %Rec Surr: 4-Bromofluorobenzene 101 39.1-146 1 7/19/2023 5:25:34 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 7/20/2023 3:37:20 PM 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit

RL Rep

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Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-16 2' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 9:20:00 AM Lab ID: 2307747-014 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) ND 9.2 7/20/2023 7:46:32 PM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) 1 7/20/2023 7:46:32 PM ND 46 Surr: DNOP 89.1 69-147 %Rec 1 7/20/2023 7:46:32 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 7/19/2023 5:49:21 PM Surr: BFB 1 7/19/2023 5:49:21 PM 94.9 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 1 7/19/2023 5:49:21 PM Toluene ND 0.048 mg/Kg 1 7/19/2023 5:49:21 PM Ethylbenzene 7/19/2023 5:49:21 PM ND 0.048 mg/Kg 1 Xylenes, Total ND 0.095 mg/Kg 1 7/19/2023 5:49:21 PM %Rec Surr: 4-Bromofluorobenzene 104 39.1-146 1 7/19/2023 5:49:21 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 7/20/2023 3:49:44 PM 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

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

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Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-17 0' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 9:05:00 AM Lab ID: 2307747-015 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) ND 9.7 7/20/2023 2:24:16 AM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) 1 7/20/2023 2:24:16 AM ND 49 Surr: DNOP 96.6 %Rec 1 7/20/2023 2:24:16 AM 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 7/19/2023 6:13:09 PM Surr: BFB 95.6 1 7/19/2023 6:13:09 PM 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 1 7/19/2023 6:13:09 PM Toluene ND 0.048 mg/Kg 1 7/19/2023 6:13:09 PM Ethylbenzene 7/19/2023 6:13:09 PM ND 0.048 mg/Kg 1 Xylenes, Total ND 0.096 mg/Kg 1 7/19/2023 6:13:09 PM %Rec Surr: 4-Bromofluorobenzene 106 39.1-146 1 7/19/2023 6:13:09 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 7/20/2023 4:02:08 PM 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 15 of 57

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-17 2' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 9:20:00 AM Lab ID: 2307747-016 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) ND 9.7 7/20/2023 2:44:10 AM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) 1 7/20/2023 2:44:10 AM ND 49 Surr: DNOP 94.5 %Rec 1 7/20/2023 2:44:10 AM 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 7/19/2023 6:36:57 PM Surr: BFB 1 7/19/2023 6:36:57 PM 94.2 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.025 mg/Kg 1 7/19/2023 6:36:57 PM Toluene ND 0.050 mg/Kg 1 7/19/2023 6:36:57 PM Ethylbenzene 7/19/2023 6:36:57 PM ND 0.050 mg/Kg 1 Xylenes, Total ND 0.099 mg/Kg 1 7/19/2023 6:36:57 PM %Rec Surr: 4-Bromofluorobenzene 103 39.1-146 1 7/19/2023 6:36:57 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT 7/20/2023 4:14:33 PM Chloride 67 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 16 of 57

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-18 0' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 10:10:00 AM Lab ID: 2307747-017 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) ND 9.9 7/20/2023 3:03:51 AM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) 1 7/20/2023 3:03:51 AM ND 50 Surr: DNOP 86.8 %Rec 1 7/20/2023 3:03:51 AM 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 7/19/2023 7:00:47 PM Surr: BFB 1 7/19/2023 7:00:47 PM 94.5 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 1 7/19/2023 7:00:47 PM Toluene ND 0.047 mg/Kg 1 7/19/2023 7:00:47 PM Ethylbenzene 7/19/2023 7:00:47 PM ND 0.047 mg/Kg 1 Xylenes, Total ND 0.094 mg/Kg 1 7/19/2023 7:00:47 PM %Rec Surr: 4-Bromofluorobenzene 104 39.1-146 1 7/19/2023 7:00:47 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT 7/21/2023 10:37:17 AM Chloride 7800 300 mg/Kg 100

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 17 of 57

Lab ID:

Analyses

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-18 2' North Pure Gold Federal 011 Collection Date: 7/14/2023 10:15:00 AM 2307747-018 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) ND 9.2 ma/Ka 1 7/20/2023 3:23:41 AM Л Λ Ρ Л Λ Ρ

	0.2	ing/itg		1/20/2020 0.20.41 / 10
ND	46	mg/Kg	1	7/20/2023 3:23:41 AM
94.6	69-147	%Rec	1	7/20/2023 3:23:41 AM
				Analyst: JJP
ND	5.0	mg/Kg	1	7/19/2023 7:24:35 PM
95.9	15-244	%Rec	1	7/19/2023 7:24:35 PM
				Analyst: JJP
ND	0.025	mg/Kg	1	7/19/2023 7:24:35 PM
ND	0.050	mg/Kg	1	7/19/2023 7:24:35 PM
ND	0.050	mg/Kg	1	7/19/2023 7:24:35 PM
ND	0.099	mg/Kg	1	7/19/2023 7:24:35 PM
107	39.1-146	%Rec	1	7/19/2023 7:24:35 PM
				Analyst: JMT
1400	60	mg/Kg	20	7/20/2023 4:39:22 PM
	94.6 ND 95.9 ND ND ND ND 107	ND4694.669-147ND5.095.915-244ND0.025ND0.050ND0.050ND0.09910739.1-146	ND 46 mg/Kg 94.6 69-147 %Rec ND 5.0 mg/Kg 95.9 15-244 %Rec ND 0.025 mg/Kg ND 0.050 mg/Kg ND 0.050 mg/Kg ND 0.099 mg/Kg ND 0.099 mg/Kg 107 39.1-146 %Rec	ND 46 mg/Kg 1 94.6 69-147 %Rec 1 ND 5.0 mg/Kg 1 95.9 15-244 %Rec 1 ND 0.025 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.099 mg/Kg 1 107 39.1-146 %Rec 1

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

Н Holding times for preparation or analysis exceeded

- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-19 0' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 10:25:00 AM Lab ID: 2307747-019 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) ND 9.6 7/19/2023 5:58:37 PM mg/Kg 1 Motor Oil Range Organics (MRO) ND 1 7/19/2023 5:58:37 PM 48 mg/Kg Surr: DNOP 60.8 69-147 S %Rec 1 7/19/2023 5:58:37 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 7/19/2023 11:20:31 PM Surr: BFB 1 7/19/2023 11:20:31 PM 91.5 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.025 mg/Kg 1 7/19/2023 11:20:31 PM Toluene ND 0.049 mg/Kg 1 7/19/2023 11:20:31 PM Ethylbenzene 7/19/2023 11:20:31 PM ND 0.049 mg/Kg 1 Xylenes, Total ND 0.099 mg/Kg 1 7/19/2023 11:20:31 PM %Rec Surr: 4-Bromofluorobenzene 104 39.1-146 1 7/19/2023 11:20:31 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 7/20/2023 4:51:47 PM 290 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 19 of 57

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-19 2' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 10:30:00 AM Lab ID: 2307747-020 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) ND 8.7 7/19/2023 6:23:24 PM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) 1 7/19/2023 6:23:24 PM ND 44 Surr: DNOP 83.9 69-147 %Rec 1 7/19/2023 6:23:24 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 7/20/2023 12:30:58 AM Surr: BFB 1 7/20/2023 12:30:58 AM 90.0 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 1 7/20/2023 12:30:58 AM Toluene ND 0.049 mg/Kg 1 7/20/2023 12:30:58 AM Ethylbenzene 7/20/2023 12:30:58 AM ND 0.049 mg/Kg 1 Xylenes, Total ND 0.097 mg/Kg 1 7/20/2023 12:30:58 AM %Rec Surr: 4-Bromofluorobenzene 103 39.1-146 1 7/20/2023 12:30:58 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 7/20/2023 5:04:11 PM 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

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

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 20 of 57

Released to Imaging: 6/9/2025 2:25:32 PM

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-20 0' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 10:45:00 AM Lab ID: 2307747-021 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) ND 9.3 7/19/2023 6:48:17 PM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) 1 7/19/2023 6:48:17 PM ND 46 Surr: DNOP 82.5 %Rec 1 7/19/2023 6:48:17 PM 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 7/20/2023 1:41:17 AM Surr: BFB 89.6 1 7/20/2023 1:41:17 AM 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 1 7/20/2023 1:41:17 AM Toluene ND 0.049 mg/Kg 1 7/20/2023 1:41:17 AM Ethylbenzene 7/20/2023 1:41:17 AM ND 0.049 mg/Kg 1 Xylenes, Total ND 0.097 mg/Kg 1 7/20/2023 1:41:17 AM %Rec Surr: 4-Bromofluorobenzene 103 39.1-146 1 7/20/2023 1:41:17 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 170 7/20/2023 5:41:25 PM 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

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

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Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-20 2' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 10:55:00 AM Lab ID: 2307747-022 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) ND 9.5 7/19/2023 7:13:08 PM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) 1 7/19/2023 7:13:08 PM ND 47 Surr: DNOP 85.6 69-147 %Rec 1 7/19/2023 7:13:08 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 7/20/2023 2:04:38 AM Surr: BFB 1 7/20/2023 2:04:38 AM 88.8 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 1 7/20/2023 2:04:38 AM Toluene ND 0.048 mg/Kg 1 7/20/2023 2:04:38 AM Ethylbenzene 7/20/2023 2:04:38 AM ND 0.048 mg/Kg 1 Xylenes, Total ND 0.096 mg/Kg 1 7/20/2023 2:04:38 AM Surr: 4-Bromofluorobenzene 102 39.1-146 %Rec 1 7/20/2023 2:04:38 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 7/20/2023 5:53:50 PM 160 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL

Practical Quanitative Limit S

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

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 22 of 57

Released to Imaging: 6/9/2025 2:25:32 PM

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-21 0' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 10:50:00 AM Lab ID: 2307747-023 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) ND 9.3 7/19/2023 7:37:50 PM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) 1 7/19/2023 7:37:50 PM ND 46 Surr: DNOP 84.6 %Rec 1 7/19/2023 7:37:50 PM 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 7/20/2023 2:28:02 AM Surr: BFB 1 7/20/2023 2:28:02 AM 88.8 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.025 mg/Kg 1 7/20/2023 2:28:02 AM Toluene ND 0.050 mg/Kg 1 7/20/2023 2:28:02 AM Ethylbenzene 7/20/2023 2:28:02 AM ND 0.050 mg/Kg 1 Xylenes, Total ND 0.099 mg/Kg 1 7/20/2023 2:28:02 AM Surr: 4-Bromofluorobenzene 103 39.1-146 %Rec 1 7/20/2023 2:28:02 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 300 7/20/2023 6:06:15 PM 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 23 of 57

CLIENT: Vertex Resources Services, Inc.

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-21 2' Collection Date: 7/14/2023 11:00:00 AM Received Date: 7/18/2023 7:10:00 AM

Lab ID: 2307747-024	Matrix: SOIL	Received Date: 7/18/2023 7:10:00 AM			023 7:10:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/19/2023 8:02:35 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/19/2023 8:02:35 PM
Surr: DNOP	84.3	69-147	%Rec	1	7/19/2023 8:02:35 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/20/2023 2:51:27 AM
Surr: BFB	90.8	15-244	%Rec	1	7/20/2023 2:51:27 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	7/20/2023 2:51:27 AM
Toluene	ND	0.048	mg/Kg	1	7/20/2023 2:51:27 AM
Ethylbenzene	ND	0.048	mg/Kg	1	7/20/2023 2:51:27 AM
Xylenes, Total	ND	0.096	mg/Kg	1	7/20/2023 2:51:27 AM
Surr: 4-Bromofluorobenzene	105	39.1-146	%Rec	1	7/20/2023 2:51:27 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	200	60	mg/Kg	20	7/20/2023 6:18:40 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-22 0' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 11:30:00 AM Lab ID: 2307747-025 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) 120 9.9 7/19/2023 8:27:13 PM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) 1 7/19/2023 8:27:13 PM 51 49 Surr: DNOP 89.6 %Rec 1 7/19/2023 8:27:13 PM 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 7/20/2023 3:14:50 AM Surr: BFB 1 7/20/2023 3:14:50 AM 88.6 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.025 mg/Kg 1 7/20/2023 3:14:50 AM Toluene ND 0.049 mg/Kg 1 7/20/2023 3:14:50 AM Ethylbenzene 7/20/2023 3:14:50 AM ND 0.049 mg/Kg 1 Xylenes, Total ND 0.099 mg/Kg 1 7/20/2023 3:14:50 AM %Rec Surr: 4-Bromofluorobenzene 103 39.1-146 1 7/20/2023 3:14:50 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 7/20/2023 6:31:04 PM 1800 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 25 of 57

2307747-026

Project:

Lab ID:

Analyses

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-22 2' North Pure Gold Federal 011 Collection Date: 7/14/2023 11:35:00 AM Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb ND 9.8 7/19/2023 8:51:54 PM mg/Kg 1

Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/19/2023 8:51:54 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/19/2023 8:51:54 PM
Surr: DNOP	88.9	69-147	%Rec	1	7/19/2023 8:51:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/20/2023 3:38:09 AM
Surr: BFB	89.5	15-244	%Rec	1	7/20/2023 3:38:09 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	7/20/2023 3:38:09 AM
Toluene	ND	0.048	mg/Kg	1	7/20/2023 3:38:09 AM
Ethylbenzene	ND	0.048	mg/Kg	1	7/20/2023 3:38:09 AM
Xylenes, Total	ND	0.097	mg/Kg	1	7/20/2023 3:38:09 AM
Surr: 4-Bromofluorobenzene	103	39.1-146	%Rec	1	7/20/2023 3:38:09 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	1800	60	mg/Kg	20	7/20/2023 6:43:28 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-23 0' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 11:50:00 AM Lab ID: 2307747-027 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) ND 8.7 7/19/2023 9:16:36 PM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) 1 7/19/2023 9:16:36 PM ND 43 Surr: DNOP 88.5 69-147 %Rec 1 7/19/2023 9:16:36 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 7/20/2023 4:01:31 AM Surr: BFB 1 7/20/2023 4:01:31 AM 90.0 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 1 7/20/2023 4:01:31 AM Toluene ND 0.049 mg/Kg 1 7/20/2023 4:01:31 AM Ethylbenzene 7/20/2023 4:01:31 AM ND 0.049 mg/Kg 1 Xylenes, Total ND 0.098 mg/Kg 1 7/20/2023 4:01:31 AM %Rec Surr: 4-Bromofluorobenzene 105 39.1-146 1 7/20/2023 4:01:31 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 7/20/2023 6:55:53 PM 440 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

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

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Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-23 2' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 11:55:00 AM Lab ID: 2307747-028 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) ND 10 7/19/2023 9:41:18 PM mg/Kg 1 Motor Oil Range Organics (MRO) 50 1 7/19/2023 9:41:18 PM ND mg/Kg Surr: DNOP 82.0 %Rec 1 7/19/2023 9:41:18 PM 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 7/20/2023 4:24:55 AM Surr: BFB 1 7/20/2023 4:24:55 AM 92.6 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 1 7/20/2023 4:24:55 AM Toluene ND 0.049 mg/Kg 1 7/20/2023 4:24:55 AM Ethylbenzene 7/20/2023 4:24:55 AM ND 0.049 mg/Kg 1 Xylenes, Total ND 0.097 mg/Kg 1 7/20/2023 4:24:55 AM Surr: 4-Bromofluorobenzene 108 39.1-146 %Rec 1 7/20/2023 4:24:55 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 7/20/2023 7:08:18 PM 220 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 28 of 57

2307747-029

Project:

Lab ID:

Analyses

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-24 0' North Pure Gold Federal 011 Collection Date: 7/14/2023 12:00:00 PM Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed**

EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	7/19/2023 10:30:36 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/19/2023 10:30:36 PM
Surr: DNOP	74.1	69-147	%Rec	1	7/19/2023 10:30:36 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/20/2023 10:19:12 AM
Surr: BFB	95.0	15-244	%Rec	1	7/20/2023 10:19:12 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	7/20/2023 10:19:12 AM
Toluene	ND	0.048	mg/Kg	1	7/20/2023 10:19:12 AM
Ethylbenzene	ND	0.048	mg/Kg	1	7/20/2023 10:19:12 AM
Xylenes, Total	ND	0.096	mg/Kg	1	7/20/2023 10:19:12 AM
Surr: 4-Bromofluorobenzene	111	39.1-146	%Rec	1	7/20/2023 10:19:12 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	3600	150	mg/Kg	50	7/21/2023 10:49:42 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Released to Imaging: 6/9/2025 2:25:32 PM

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-24 2' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 12:05:00 PM Lab ID: 2307747-030 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) ND 7/19/2023 10:55:08 PM 9.8 mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) 1 7/19/2023 10:55:08 PM ND 49 Surr: DNOP 84.0 69-147 %Rec 1 7/19/2023 10:55:08 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 7/20/2023 10:42:38 AM Surr: BFB 1 7/20/2023 10:42:38 AM 91.3 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 1 7/20/2023 10:42:38 AM Toluene ND 0.048 mg/Kg 1 7/20/2023 10:42:38 AM Ethylbenzene 7/20/2023 10:42:38 AM ND 0.048 mg/Kg 1 Xylenes, Total ND 0.097 mg/Kg 1 7/20/2023 10:42:38 AM %Rec Surr: 4-Bromofluorobenzene 108 39.1-146 1 7/20/2023 10:42:38 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 7/20/2023 9:48:59 PM 210 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 30 of 57

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-25 0' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 12:10:00 PM Lab ID: 2307747-031 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) ND 8.7 7/19/2023 11:19:38 PM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) 1 7/19/2023 11:19:38 PM ND 44 Surr: DNOP 88.5 69-147 %Rec 1 7/19/2023 11:19:38 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 7/20/2023 11:06:08 AM Surr: BFB 1 7/20/2023 11:06:08 AM 91.3 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 1 7/20/2023 11:06:08 AM Toluene ND 0.048 mg/Kg 1 7/20/2023 11:06:08 AM Ethylbenzene 7/20/2023 11:06:08 AM ND 0.048 mg/Kg 1 Xylenes, Total ND 0.096 mg/Kg 1 7/20/2023 11:06:08 AM %Rec Surr: 4-Bromofluorobenzene 109 39.1-146 1 7/20/2023 11:06:08 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 7/20/2023 10:01:24 PM 990 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 31 of 57

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-25 2' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 12:15:00 PM Lab ID: 2307747-032 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) ND 10 7/19/2023 11:44:19 PM mg/Kg 1 Motor Oil Range Organics (MRO) 50 1 7/19/2023 11:44:19 PM ND mg/Kg Surr: DNOP 82.1 %Rec 1 7/19/2023 11:44:19 PM 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 7/20/2023 11:29:36 AM Surr: BFB 1 7/20/2023 11:29:36 AM 92.7 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.025 mg/Kg 1 7/20/2023 11:29:36 AM Toluene ND 0.049 mg/Kg 1 7/20/2023 11:29:36 AM Ethylbenzene 7/20/2023 11:29:36 AM ND 0.049 mg/Kg 1 Xylenes, Total ND 0.098 mg/Kg 1 7/20/2023 11:29:36 AM Surr: 4-Bromofluorobenzene 110 39.1-146 %Rec 1 7/20/2023 11:29:36 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 7/20/2023 10:13:48 PM 110 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 32 of 57

CLIENT: Vertex Resources Services, Inc.

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-26 0' Collection Date: 7/14/2023 12:20:00 PM Received Date: 7/18/2023 7:10:00 AM

Lab ID: 2307747-033	Matrix: SOIL	Received Date: 7/18/2023 7:10:00 AM			023 7:10:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/20/2023 12:08:57 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/20/2023 12:08:57 AM
Surr: DNOP	85.8	69-147	%Rec	1	7/20/2023 12:08:57 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/20/2023 11:53:10 AM
Surr: BFB	95.2	15-244	%Rec	1	7/20/2023 11:53:10 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	7/20/2023 11:53:10 AM
Toluene	ND	0.049	mg/Kg	1	7/20/2023 11:53:10 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/20/2023 11:53:10 AM
Xylenes, Total	ND	0.099	mg/Kg	1	7/20/2023 11:53:10 AM
Surr: 4-Bromofluorobenzene	115	39.1-146	%Rec	1	7/20/2023 11:53:10 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	350	60	mg/Kg	20	7/20/2023 10:26:12 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

н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 33 of 57

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-26 2' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 12:25:00 PM Lab ID: 2307747-034 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) ND 9.3 7/20/2023 12:33:30 AM mg/Kg 1 Motor Oil Range Organics (MRO) 1 7/20/2023 12:33:30 AM ND 47 mg/Kg Surr: DNOP 91.8 69-147 %Rec 1 7/20/2023 12:33:30 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 7/20/2023 12:16:41 PM Surr: BFB 1 7/20/2023 12:16:41 PM 93.6 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 1 7/20/2023 12:16:41 PM Toluene ND 0.048 mg/Kg 1 7/20/2023 12:16:41 PM Ethylbenzene 7/20/2023 12:16:41 PM ND 0.048 mg/Kg 1 Xylenes, Total ND 0.096 mg/Kg 1 7/20/2023 12:16:41 PM Surr: 4-Bromofluorobenzene 112 39.1-146 %Rec 1 7/20/2023 12:16:41 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 7/20/2023 10:38:36 PM 150 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 34 of 57

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-27 0' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 12:50:00 PM Lab ID: 2307747-035 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) ND 8.8 7/20/2023 12:58:01 AM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) ND 1 7/20/2023 12:58:01 AM 44 Surr: DNOP 105 69-147 %Rec 1 7/20/2023 12:58:01 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 7/20/2023 12:40:18 PM Surr: BFB 1 7/20/2023 12:40:18 PM 93.0 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 1 7/20/2023 12:40:18 PM Toluene ND 0.049 mg/Kg 1 7/20/2023 12:40:18 PM Ethylbenzene 7/20/2023 12:40:18 PM ND 0.049 mg/Kg 1 Xylenes, Total ND 0.097 mg/Kg 1 7/20/2023 12:40:18 PM %Rec Surr: 4-Bromofluorobenzene 111 39.1-146 1 7/20/2023 12:40:18 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 92 7/20/2023 11:15:49 PM 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 35 of 57

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-27 2' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 12:55:00 PM Lab ID: 2307747-036 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) ND 8.6 7/20/2023 1:22:34 AM mg/Kg 1 mg/Kg Motor Oil Range Organics (MRO) 1 7/20/2023 1:22:34 AM ND 43 Surr: DNOP 98.6 69-147 %Rec 1 7/20/2023 1:22:34 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 7/20/2023 1:03:57 PM Surr: BFB 1 7/20/2023 1:03:57 PM 96.6 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.025 mg/Kg 1 7/20/2023 1:03:57 PM Toluene ND 0.050 mg/Kg 1 7/20/2023 1:03:57 PM Ethylbenzene 7/20/2023 1:03:57 PM ND 0.050 mg/Kg 1 Xylenes, Total ND 0.099 mg/Kg 1 7/20/2023 1:03:57 PM %Rec Surr: 4-Bromofluorobenzene 115 39.1-146 1 7/20/2023 1:03:57 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride ND 7/20/2023 11:28:14 PM 59 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank в

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 36 of 57

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2307747-037

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-28 0' Collection Date: 7/14/2023 1:10:00 PM Received Date: 7/18/2023 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/20/2023 1:47:12 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/20/2023 1:47:12 AM
Surr: DNOP	101	69-147	%Rec	1	7/20/2023 1:47:12 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/20/2023 1:27:36 PM
Surr: BFB	96.1	15-244	%Rec	1	7/20/2023 1:27:36 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	7/20/2023 1:27:36 PM
Toluene	ND	0.048	mg/Kg	1	7/20/2023 1:27:36 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/20/2023 1:27:36 PM
Xylenes, Total	ND	0.097	mg/Kg	1	7/20/2023 1:27:36 PM
Surr: 4-Bromofluorobenzene	114	39.1-146	%Rec	1	7/20/2023 1:27:36 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	7/20/2023 11:40:39 PM

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 37 of 57

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2307747-038

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-28 2' Collection Date: 7/14/2023 1:15:00 PM Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	7/20/2023 2:11:47 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	7/20/2023 2:11:47 AM
Surr: DNOP	89.3	69-147	%Rec	1	7/20/2023 2:11:47 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/20/2023 1:51:15 PM
Surr: BFB	93.8	15-244	%Rec	1	7/20/2023 1:51:15 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	7/20/2023 1:51:15 PM
Toluene	ND	0.048	mg/Kg	1	7/20/2023 1:51:15 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/20/2023 1:51:15 PM
Xylenes, Total	ND	0.096	mg/Kg	1	7/20/2023 1:51:15 PM
Surr: 4-Bromofluorobenzene	112	39.1-146	%Rec	1	7/20/2023 1:51:15 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	7/20/2023 11:53:04 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 38 of 57

CLIENT: Vertex Resources Services, Inc.

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-29 0' Collection Date: 7/14/2023 1:20:00 PM **Received Date:** 7/18/2023 7:10:00 AM

Lab ID: 2307747-039	Matrix: SOIL	Received Date: 7/18/2023 7:10:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: mb	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/20/2023 5:02:34 AM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/20/2023 5:02:34 AM	
Surr: DNOP	103	69-147	%Rec	1	7/20/2023 5:02:34 AM	
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: KMN	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/20/2023 1:03:00 AM	
Surr: BFB	79.3	15-244	%Rec	1	7/20/2023 1:03:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: KMN	
Benzene	ND	0.025	mg/Kg	1	7/20/2023 1:03:00 AM	
Toluene	ND	0.049	mg/Kg	1	7/20/2023 1:03:00 AM	
Ethylbenzene	ND	0.049	mg/Kg	1	7/20/2023 1:03:00 AM	
Xylenes, Total	ND	0.098	mg/Kg	1	7/20/2023 1:03:00 AM	
Surr: 4-Bromofluorobenzene	76.3	39.1-146	%Rec	1	7/20/2023 1:03:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: SNS	
Chloride	ND	60	mg/Kg	20	7/21/2023 12:05:28 AM	

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 39 of 57

CLIENT: Vertex Resources Services, Inc.

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-29 2' Collection Date: 7/14/2023 1:25:00 PM Received Date: 7/18/2023 7:10:00 AM

Lab ID: 2307747-040	Matrix: SOIL Received Date: 7/18/2023 7:10:00				023 7:10:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	7/20/2023 5:26:40 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	7/20/2023 5:26:40 AM
Surr: DNOP	97.1	69-147	%Rec	1	7/20/2023 5:26:40 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/20/2023 2:08:00 AM
Surr: BFB	75.4	15-244	%Rec	1	7/20/2023 2:08:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	7/20/2023 2:08:00 AM
Toluene	ND	0.048	mg/Kg	1	7/20/2023 2:08:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	7/20/2023 2:08:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	7/20/2023 2:08:00 AM
Surr: 4-Bromofluorobenzene	75.1	39.1-146	%Rec	1	7/20/2023 2:08:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	7/21/2023 12:17:52 AM

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

Qualifiers:

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

Page 40 of 57

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2307747-041

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/28/2023 Client Sample ID: BH23-30 0' Collection Date: 7/14/2023 1:35:00 PM

Received Date: 7/18/2023 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/24/2023 11:16:10 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/24/2023 11:16:10 PM
Surr: DNOP	90.6	69-147	%Rec	1	7/24/2023 11:16:10 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/20/2023 3:13:00 AM
Surr: BFB	79.3	15-244	%Rec	1	7/20/2023 3:13:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	7/20/2023 3:13:00 AM
Toluene	ND	0.049	mg/Kg	1	7/20/2023 3:13:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/20/2023 3:13:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	7/20/2023 3:13:00 AM
Surr: 4-Bromofluorobenzene	76.7	39.1-146	%Rec	1	7/20/2023 3:13:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	240	60	mg/Kg	20	7/21/2023 12:30:17 AM

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 41 of 57

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-30 2' **Project:** North Pure Gold Federal 011 Collection Date: 7/14/2023 1:40:00 PM Lab ID: 2307747-042 Matrix: SOIL Received Date: 7/18/2023 7:10:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: mb Diesel Range Organics (DRO) ND 8.7 7/20/2023 6:14:56 AM mg/Kg 1 Motor Oil Range Organics (MRO) 1 7/20/2023 6:14:56 AM ND 43 mg/Kg Surr: DNOP 69-147 80.6 %Rec 1 7/20/2023 6:14:56 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 7/20/2023 3:35:00 AM Surr: BFB 1 7/20/2023 3:35:00 AM 77.2 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 0.025 mg/Kg 1 7/20/2023 3:35:00 AM Toluene ND 0.050 mg/Kg 1 7/20/2023 3:35:00 AM Ethylbenzene 7/20/2023 3:35:00 AM ND 0.050 mg/Kg 1 Xylenes, Total ND 0.099 mg/Kg 1 7/20/2023 3:35:00 AM Surr: 4-Bromofluorobenzene 76.6 39.1-146 %Rec 1 7/20/2023 3:35:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 7/21/2023 12:42:42 AM 89 60 mg/Kg 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 42 of 57

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2307747-043

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/28/2023 Client Sample ID: BH23-31 0' Collection Date: 7/14/2023 1:40:00 PM

Received Date: 7/18/2023 7:10:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	7/24/2023 11:34:35 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	7/24/2023 11:34:35 PM
Surr: DNOP	95.3	69-147	%Rec	1	7/24/2023 11:34:35 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/20/2023 3:56:00 AM
Surr: BFB	78.7	15-244	%Rec	1	7/20/2023 3:56:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	7/20/2023 3:56:00 AM
Toluene	ND	0.049	mg/Kg	1	7/20/2023 3:56:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/20/2023 3:56:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	7/20/2023 3:56:00 AM
Surr: 4-Bromofluorobenzene	76.1	39.1-146	%Rec	1	7/20/2023 3:56:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	210	60	mg/Kg	20	7/20/2023 9:49:38 PM

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank в

Above Quantitation Range/Estimated Value Е

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 43 of 57

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2307747-044

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-31 2' Collection Date: 7/14/2023 1:45:00 PM Received Date: 7/18/2023 7:10:00 AM

Eub ID: 2307717 011	Muuliki Boll	10001,00 Dutt, 110/2025 1.10.00 Int				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: PRD	
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	7/20/2023 4:41:51 AM	
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	7/20/2023 4:41:51 AM	
Surr: DNOP	106	69-147	%Rec	1	7/20/2023 4:41:51 AM	
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: KMN	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/20/2023 4:18:00 AM	
Surr: BFB	78.9	15-244	%Rec	1	7/20/2023 4:18:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: KMN	
Benzene	ND	0.023	mg/Kg	1	7/20/2023 4:18:00 AM	
Toluene	ND	0.047	mg/Kg	1	7/20/2023 4:18:00 AM	
Ethylbenzene	ND	0.047	mg/Kg	1	7/20/2023 4:18:00 AM	
Xylenes, Total	ND	0.093	mg/Kg	1	7/20/2023 4:18:00 AM	
Surr: 4-Bromofluorobenzene	76.5	39.1-146	%Rec	1	7/20/2023 4:18:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: JMT	
Chloride	100	60	mg/Kg	20	7/20/2023 10:02:02 PM	

Matrix: SOIL

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

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 44 of 57

CLIENT: Vertex Resources Services, Inc.

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-32 0' Collection Date: 7/14/2023 1:55:00 PM **Received Date:** 7/18/2023 7:10:00 AM

Lab ID: 2307747-045	Matrix: SOIL	Matrix: SOIL Received Date: 7/18/2023 7			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/20/2023 5:00:46 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/20/2023 5:00:46 AM
Surr: DNOP	70.0	69-147	%Rec	1	7/20/2023 5:00:46 AM
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/20/2023 5:01:00 AM
Surr: BFB	79.2	15-244	%Rec	1	7/20/2023 5:01:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.023	mg/Kg	1	7/20/2023 5:01:00 AM
Toluene	ND	0.047	mg/Kg	1	7/20/2023 5:01:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	7/20/2023 5:01:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	7/20/2023 5:01:00 AM
Surr: 4-Bromofluorobenzene	77.6	39.1-146	%Rec	1	7/20/2023 5:01:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	1200	60	mg/Kg	20	7/20/2023 11:28:55 PM

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

Qualifiers:

* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

Page 45 of 57

CLIENT: Vertex Resources Services, Inc.

North Pure Gold Federal 011

Analytical Report Lab Order 2307747

Date Reported: 7/28/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-32 2' Collection Date: 7/14/2023 2:00:00 PM Received Date: 7/18/2023 7:10:00 AM

Lab ID: 2307747-046	Matrix: SOIL	Rece	vived Date:	7/18/2	2023 7:10:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/20/2023 5:19:38 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/20/2023 5:19:38 AM
Surr: DNOP	109	69-147	%Rec	1	7/20/2023 5:19:38 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/20/2023 5:23:00 AM
Surr: BFB	79.3	15-244	%Rec	1	7/20/2023 5:23:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	7/20/2023 5:23:00 AM
Toluene	ND	0.047	mg/Kg	1	7/20/2023 5:23:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	7/20/2023 5:23:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	7/20/2023 5:23:00 AM
Surr: 4-Bromofluorobenzene	75.8	39.1-146	%Rec	1	7/20/2023 5:23:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	86	60	mg/Kg	20	7/20/2023 11:41:21 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 46 of 57

2307747

WO#:

Hall Er	nvironment	tal Analysis Laboratory, Inc.	28-Jul-2
Client: Project:		Resources Services, Inc. Pure Gold Federal 011	
Sample ID:	MB-76320	SampType: MBLK TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 76320 RunNo: 98352	
Prep Date:	7/19/2023	Analysis Date: 7/19/2023 SeqNo: 3580011 Units: mg/Kg	
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		ND 1.5	
Sample ID:	LCS-76320	SampType: LCS TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 76320 RunNo: 98352	
Prep Date:	7/19/2023	Analysis Date: 7/19/2023 SeqNo: 3580012 Units: mg/Kg	
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		14 1.5 15.00 0 94.1 90 110	
Sample ID:	MB-76359	SampType: mblk TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 76359 RunNo: 98399	
Prep Date:	7/20/2023	Analysis Date: 7/20/2023 SeqNo: 3581706 Units: mg/Kg	
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		ND 1.5	
Sample ID:	LCS-76359	SampType: Ics TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 76359 RunNo: 98399	
Prep Date:	7/20/2023	Analysis Date: 7/20/2023 SeqNo: 3581707 Units: mg/Kg	
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
hloride		15 1.5 15.00 0 97.5 90 110	
Sample ID:	MB-76371	SampType: mblk TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 76371 RunNo: 98399	
Prep Date:	7/20/2023	Analysis Date: 7/20/2023 SeqNo: 3581746 Units: mg/Kg	
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
hloride		ND 1.5	
Sample ID:	LCS-76371	SampType: Ics TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 76371 RunNo: 98399	
Prep Date:	7/20/2023	Analysis Date: 7/20/2023 SeqNo: 3581747 Units: mg/Kg	
		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual

Qualifiers:

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

Client: Project:		ex Resources S h Pure Gold Fe	,								
Sample ID:	MB-76366	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID:	PBS	Batcl	h ID: 763	366	F	RunNo: 98	3371				
Prep Date:	7/20/2023	Analysis I	Date: 7/2	20/2023	S	SeqNo: 35	581841	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-76366	SampT	Гуре: LC	S	Tes	tCode: EF	PA Method	300.0: Anions	3		
Client ID:	LCSS	Batcl	h ID: 763	366	F	RunNo: 98	3371				
Prep Date:	7/20/2023	Analysis [Date: 7/2	20/2023	5	SeqNo: 3	581842	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	91.9	90	110			

Qualifiers:

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

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2307747

28-Jul-23

Client:

Project:

Client ID:

Prep Date:

Surr: DNOP

Client ID:

Prep Date:

Analyte

Analvte

Sample ID: LCS-76306

Diesel Range Organics (DRO)

LCSS

Sample ID: 2307747-019AMS

BH23-19 0'

7/18/2023

7/18/2023

QC SUMMARY REPO Hall Environmental Analy

Result

51

4.8

10

50.00

5.000

PQL

SPK value SPK Ref Val

MARY onmental				ory, Inc.					WO#:	2307747 28-Jul-23
	esources Se re Gold Feo	,								
6306	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	Organics	
	Batch	ID: 763	306	F	RunNo:	98345				
2023	Analysis Da	ate: 7/	19/2023	:	SeqNo: :	3579452	Units: mg/K	g		
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
(DRO)	43	10	50.00	0	85.6	61.9	130			
	4.0		5.000		80.0	69	147			
47-019AMS	SampT	уре: МS	5	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	Organics	
19 0'	Batch	ID: 763	306	F	RunNo:	98345				
2023	Analysis Da	ate: 7/2	20/2023	:	SeqNo: :	3579474	Units: mg/K	g		

HighLimit

%RPD

RPDLimit

Qual

-										
Diesel Range Organics (DRO)	38	9.9	49.70	0	76.6	54.2	135			
Surr: DNOP	3.2		4.970		63.4	69	147			S
Sample ID: 2307747-019AMSD	SampT	уре: МS	D	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: BH23-19 0'	Batch	n ID: 76 3	306	F	RunNo: 98	3345				
Prep Date: 7/18/2023	Analysis D	Date: 7/2	20/2023	Ś	SeqNo: 35	579475	Units: mg/K	íg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.3	46.55	0	96.4	54.2	135	16.4	29.2	
Surr: DNOP	4.0		4.655		85.5	69	147	0	0	
Sample ID: MB-76310	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: PBS	Batch	n ID: 763	310	F	RunNo: 98	3345				
Prep Date: 7/18/2023	Analysis D	Date: 7/2	20/2023	S	SeqNo: 35	579477	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		112	69	147			
Sample ID: LCS-76310	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: LCSS	Batch	n ID: 76 3	310	F	RunNo: 98	3345				
Prep Date: 7/18/2023	Analysis D	Date: 7/2	20/2023	S	SeqNo: 3	579478	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

%REC

LowLimit

61.9

69

130

147

Diesel Range Organics (DRO) Surr: DNOP

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- в Analyte detected in the associated Method Blank

103

95.5

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range Р
- RL Reporting Limit

0

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	WO#:	2307747
Hall Environmental Analysis Laboratory, Inc.		28-Jul-23

	esources Services, Inc. are Gold Federal 011	
Sample ID: MB-76306	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 76306	RunNo: 98345
Prep Date: 7/18/2023	Analysis Date: 7/20/2023	SeqNo: 3579485 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	aa () aa () ()
Surr: DNOP	9.8 10.00	98.4 69 147
Sample ID: MB-76297	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 76297	RunNo: 98349
Prep Date: 7/18/2023	Analysis Date: 7/19/2023	SeqNo: 3579967 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	00.0 00 447
Surr: DNOP	9.1 10.00	90.8 69 147
Sample ID: LCS-76297	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 76297	RunNo: 98349
Prep Date: 7/18/2023	Analysis Date: 7/19/2023	SeqNo: 3579968 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	0 109 61.9 130
Surr: DNOP	5.1 5.000	102 69 147
Sample ID: MB-76333	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 76333	RunNo: 98368
Prep Date: 7/19/2023	Analysis Date: 7/20/2023	SeqNo: 3581346 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	10 10.00	101 69 147
Sample ID: LCS-76333	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 76333	RunNo: 98368
Prep Date: 7/19/2023	Analysis Date: 7/21/2023	SeqNo: 3581347 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.4 5.000	88.4 69 147
Sample ID: MB-76380	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 76380	RunNo: 98457
Prep Date: 7/21/2023	Analysis Date: 7/24/2023	
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

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank В

Е Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 50 of 57

QC SUMMART REFORT	WO#:	2307747
Hall Environmental Analysis Laboratory, Inc.		28-Jul-23

Client: Project:	Vertex Re North Pur		,								
Sample ID:	MB-76380	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	n ID: 76:	380	F	RunNo: 98	8457		-	-	
Prep Date:	7/21/2023	Analysis D	ate: 7/	24/2023	S	SeqNo: 3	584256	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	ND	10								
Votor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		8.9		10.00		89.2	69	147			
Sample ID:	LCS-76380	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch	n ID: 76	380	F	RunNo: 98	8457				
Prep Date:	7/21/2023	Analysis D	ate: 7/	24/2023	S	SeqNo: 3	584257	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	44	10	50.00	0	87.3	61.9	130			
Surr: DNOP		4.1		5.000		81.0	69	147			
Sample ID:	2307747-043AMS	SampT	уре: МS	5	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	BH23-31 0'	Batch	n ID: 76	380	F	RunNo: 98	8457				
Prep Date:	7/21/2023	Analysis D	ate: 7/	24/2023	S	SeqNo: 3	584260	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	51	9.6	48.22	0	105	54.2	135			
Surr: DNOP		4.7		4.822		97.7	69	147			
Sample ID:	2307747-043AMSD	SampT	уре: МS	D	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	BH23-31 0'	Batch	n ID: 76	380	F	RunNo: 98	8457				
Prep Date:	7/21/2023	Analysis D	ate: 7/	25/2023	S	SeqNo: 3	584261	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	53	8.7	43.67	0	121	54.2	135	3.89	29.2	В
Surr: DNOP		4.3		4.367		99.1	69	147	0	0	

Qualifiers:

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	esources Services re Gold Federal ()								
Sample ID: Ics-76285	SampType: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batch ID: 76	285	F	RunNo: 98	8328				
Prep Date: 7/18/2023	Analysis Date: 7	19/2023	ç	SeqNo: 3	578519	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	23 5.0 1900	25.00 1000	0	92.0 187	70 15	130 244			
Sample ID: mb-76285	SampType: MI	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: PBS	Batch ID: 76	285	F	RunNo: 98	8328				
Prep Date: 7/18/2023	Analysis Date: 7	/19/2023	S	SeqNo: 3	578520	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 910	1000		91.4	15	244			
Sample ID: Ics-76293	SampType: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batch ID: 76	293	F	RunNo: 98	8347				
Prep Date: 7/18/2023	Analysis Date: 7	/19/2023	S	SeqNo: 3	579525	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22 5.0	25.00	0	87.9	70	130			
Surr: BFB	1800	1000		178	15	244			
Sample ID: mb-76293	SampType: MI	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: PBS	Batch ID: 76	293	F	RunNo: 98	8347				
Prep Date: 7/18/2023	Analysis Date: 7	20/2023	ç	SeqNo: 3	579526	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 840	1000		84.4	15	244			
Sample ID: 2307747-039ams	SampType: M	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: BH23-29 0'	Batch ID: 76	293	F	RunNo: 98	8347				
Prep Date: 7/18/2023	Analysis Date: 7	20/2023	S	SeqNo: 3	579528	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22 4.9	24.58	0	90.2	70	130			
Surr: BFB	1900	983.3		190	15	244			
Sample ID: 2307747-039amsd	SampType: M	SD	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: BH23-29 0'	Batch ID: 76	293	F	RunNo: 98	8347				
Prep Date: 7/18/2023	Analysis Date: 7/	20/2023	S	SeqNo: 3	579529	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

2307747

28-Jul-23

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	esources Servic re Gold Federal								
Sample ID: 2307747-039amsd	SampType:	MSD	Tes	tCode: EF	A Method	8015D: Gasol	line Range	!	
Client ID: BH23-29 0'	Batch ID:	76293	F	RunNo: 98	3347				
Prep Date: 7/18/2023	Analysis Date:	7/20/2023	S	SeqNo: 35	579529	Units: mg/K	g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	22 4 1900	.9 24.70 988.1	0	91.0 194	70 15	130 244	1.33 0	20 0	
Sample ID: Ics-76287	SampType:	LCS	Tes	tCode: EF	A Method	8015D: Gasol	ine Range	!	
Client ID: LCSS	Batch ID:	76287	F	RunNo: 98	3328				
Prep Date: 7/18/2023	Analysis Date:	7/19/2023	S	SeqNo: 35	579552	Units: mg/K	g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		.0 25.00	0	88.2	70	130			
Surr: BFB	1900	1000		189	15	244			
Sample ID: mb-76287	SampType:	MBLK	Tes	tCode: EF	A Method	8015D: Gasol	line Range	!	
Client ID: PBS	Batch ID:	76287	F	RunNo: 98	3328				
Prep Date: 7/18/2023	Analysis Date:	7/19/2023	S	SeqNo: 35	579553	Units: mg/K	g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		.0							
Surr: BFB	900	1000		89.9	15	244			
Sample ID: 2307747-019ams	SampType:	MS	Tes	tCode: EF	A Method	8015D: Gasol	ine Range		
Client ID: BH23-19 0'	Batch ID:	76287	F	RunNo: 98	3328				
Prep Date: 7/18/2023	Analysis Date:	7/19/2023	S	SeqNo: 35	579564	Units: mg/K	g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		.0 24.93	0	85.5	70	130			
Surr: BFB	1800	997.0		184	15	244			
Sample ID: 2307747-019amsd	SampType:	MSD	Tes	tCode: EF	A Method	8015D: Gasol	ine Range		
Client ID: BH23-19 0'	Batch ID:	76287	F	RunNo: 98	3328				
Prep Date: 7/18/2023	Analysis Date:	7/20/2023	ç	SeqNo: 35	579565	Units: mg/K	g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		.0 24.83	0	89.2	70	130	3.82	20	
Surr: BFB	1900	993.0		189	15	244	0	0	
Sample ID: Ics-76322	SampType:	LCS	Tes	tCode: EF	A Method	8015D: Gasol	ine Range		
Client ID: LCSS	Batch ID:	76322	F	RunNo: 98	3353				
Prep Date: 7/19/2023	Analysis Date:	7/20/2023	S	SeqNo: 35	580780	Units: %Rec	:		
Analyte	Result PQ		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

2307747

28-Jul-23

Analysis Date: 7/20/2023

PQL

Result 980

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2307747

WO#:

RPDLimit

Qual

%RPD

Hall Er	nvironmen	tal Analysis	Laborato	ry, Inc.						28-Jul-23
Client: Project:		x Resources Service Pure Gold Federal	,							
Sample ID:	lcs-76322	SampType: L	LCS	Tes	tCode: EF	PA Method	8015D: Gasol	line Range)	
Client ID:	LCSS	Batch ID: 7	76322	F	unNo: 98	3353				
Prep Date:	7/19/2023	Analysis Date:	7/20/2023	S	eqNo: 3	580780	Units: %Rec	;		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		2000	1000		197	15	244			
Sample ID:	mb-76322	SampType:	MBLK	Tes	tCode: EF	PA Method	8015D: Gasol	line Range)	
Client ID:	PBS	Batch ID: 7	76322	F	unNo: 98	3353				

SPK value SPK Ref Val

1000

SeqNo: 3580811

LowLimit

15

%REC

98.4

Units: %Rec

HighLimit

244

Analyte Surr: BFB

Prep Date:

7/19/2023

Qualifiers:

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

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Client:

Project:

Client ID:

Prep Date:

Analyte Benzene Toluene Ethylbenzene Xylenes, Total

Client ID:

Prep Date:

Analyte Benzene Toluene Ethylbenzene Xylenes, Total

Client ID:

Prep Date:

Analyte Benzene

Sample ID: LCS-76285

LCSS

Surr: 4-Bromofluorobenzene

PBS

Surr: 4-Bromofluorobenzene

Sample ID: LCS-76287

LCSS

7/18/2023

7/18/2023

Sample ID: mb-76285

7/18/2023

nment	al Analy	vsis La	aborato	ry, Inc.						28-Jul-23
	Resources S									
North P	Pure Gold Fe	ederal 0	11							
6285	SampT	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
	Batch	h ID: 762	285	F	RunNo: 98	8328				
2023	Analysis D	Date: 7/ *	19/2023	S	SeqNo: 3	578524	Units: mg/k	٢g		
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	0.84	0.025	1.000	0	83.7	70	130			
	0.86	0.050	1.000	0	86.3	70	130			
	0.88	0.050	1.000	0	87.9	70	130			
	2.7	0.10	3.000	0	88.8	70	130			
enzene	0.98		1.000		98.0	39.1	146			
285	SampT	Гуре: МЕ	BLK	Tes	stCode: El	PA Method	8021B: Volat	iles		
	Batch	h ID: 762	285	F	RunNo: 98	8328				
2023	Analysis E	Date: 7/ *	19/2023	\$	SeqNo: 3	578525	Units: mg/k	٢g		
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ND	0.025								
	ND	0.050								
	ND	0.050								
	ND	0.10								
enzene	0.99		1.000		99.1	39.1	146			
6287	SampT	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
	Batcl	h ID: 762	287	F	RunNo: 9 8	8328				
2023	Analysis D	Date: 7/	19/2023	Ş	SeqNo: 3	579575	Units: mg/k	٢g		
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	0.83	0.025	1.000	0	83.1	70	130			
	0.07	0.050	4 000	•	~~~~	70	400			

Toluene	0.87	0.050	1.000	0	86.6	70	130			
Ethylbenzene	0.88	0.050	1.000	0	87.8	70	130			
Xylenes, Total	2.7	0.10	3.000	0	89.1	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	39.1	146			
Sample ID: mb-76287	Samp	Гуре: МЕ	BLK	Tes	tCode: EP	A Method	8021B: Volati	les		
Client ID: PBS	Batc	h ID: 762	287	F	RunNo: 98	328				
Prep Date: 7/18/2023	Analysis [Date: 7/	19/2023	S	SeqNo: 35	79576	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								

Xylenes, Total

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S

ND

1.0

0.10

1.000

в Analyte detected in the associated Method Blank

102

39.1

146

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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2307747

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Vertex Re	sources S	ervices,	Inc.								
Project:	North Pur	e Gold Fe	ederal 0	11								
Sample ID:	2307747-020ams	Samo	Type: MS		Tes	tCode: EE	A Mothod	9021B: Volati	ilos			
Client ID:	BH23-19 2'		h ID: 762		TestCode: EPA Method 8021B: Volatiles RunNo: 98328							
Prep Date:			-					Lipite: ma/K	['] a			
	7/18/2023	Analysis E				SeqNo: 35		Units: mg/K	•			
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.83	0.024	0.9643	0	85.7	70	130				
Toluene		0.87	0.048	0.9643	0	90.4	70	130				
Ethylbenzene		0.89	0.048	0.9643	0	92.6	70	130				
Xylenes, Total	fl h	2.7	0.096	2.893	0	93.3	70	130				
Surr: 4-Bron	nofluorobenzene	1.0		0.9643		107	39.1	146				
Sample ID:	2307747-020amsd	SampT	Гуре: МS	D	TestCode: EPA Method 8021B: Volatiles							
Client ID:	BH23-19 2'	Batcl	h ID: 762	287	F	RunNo: 98	3328					
Prep Date:	7/18/2023	Analysis E	Date: 7/2	20/2023	S	SeqNo: 35	579589	Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.86	0.024	0.9718	0	88.8	70	130	4.27	20		
Toluene		0.91	0.049	0.9718	0	94.1	70	130	4.79	20		
Ethylbenzene		0.94	0.049	0.9718	0	96.3	70	130	4.67	20		
Xylenes, Total		2.8	0.097	2.915	0	97.2	70	130	4.87	20		
Surr: 4-Bron	nofluorobenzene	1.0		0.9718		104	39.1	146	0	0		
Sample ID:	lcs-76293	SampT	Type: LC	s	Tes	tCode: EF	PA Method	8021B: Volati	iles			
Client ID:	LCSS	Batcl	h ID: 762	293	RunNo: 98347							
Prep Date:	7/18/2023	Analysis E	Date: 7/2	20/2023	S							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.82	0.025	1.000	0	81.5	70	130				
Toluene		0.84	0.050	1.000	0	84.1	70	130				
Ethylbenzene		0.85	0.050	1.000	0	85.3	70	130				
Xylenes, Total		2.6	0.10	3.000	0	85.2	70	130				
Surr: 4-Bron	nofluorobenzene	0.78		1.000		78.2	39.1	146				
Sample ID:	mb-76293	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	A Method	8021B: Volati	iles			
Client ID:	PBS	Batcl	h ID: 762	293	RunNo: 98347							
Prep Date:	7/18/2023	Analysis [Date: 7/2	20/2023	SeqNo: 3579616 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-Brom	nofluorobenzene	0.77		1.000		76.7	39.1	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 Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Client:

Vertex Resources Services, Inc.

Project:	North Pur	e Gold Fe	ederal 0	11							
Sample ID:	2307747-040ams	SampT	Гуре: МS	;	TestCode: EPA Method 8021B: Volatiles						
Client ID:	BH23-29 2'	Batch	h ID: 762	293	F	RunNo: 98					
Prep Date:	7/18/2023	Analysis E	Date: 7/2	20/2023	5	SeqNo: 35	579619	J			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.85	0.024	0.9625	0	88.0	70	130			
Toluene		0.88	0.048	0.9625	0	91.5	70	130			
Ethylbenzene		0.90	0.048	0.9625	0	93.4	70	130			
Xylenes, Total		2.7	0.096	2.887	0	93.2	70	130			
Surr: 4-Bron	nofluorobenzene	0.74		0.9625		77.4	39.1	146			
Sample ID:	2307747-040amsd	SampT	Гуре: МЅ	D	TestCode: EPA Method 8021B: Volatiles						
Client ID:	BH23-29 2'	Batch	h ID: 762	293	F	RunNo: 98					
Prep Date:	7/18/2023	Analysis E	Date: 7/2	20/2023	S	SeqNo: 35	579620	Units: mg/Kg	J		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.82	0.024	0.9579	0	85.1	70	130	3.86	20	
Toluene		0.85	0.048	0.9579	0	89.1	70	130	3.14	20	
Ethylbenzene		0.87	0.048	0.9579	0	91.0	70	130	3.06	20	
Xylenes, Total		2.6	0.096	2.874	0	90.9	70	130	3.01	20	
Surr: 4-Bron	nofluorobenzene	0.73		0.9579		76.4	39.1	146	0	0	
Sample ID:	LCS-76322	SampT	Type: LC	s	TestCode: EPA Method 8021B: Volatiles						
Client ID:	LCSS	Batcl	h ID: 763	322	F	RunNo: 98	3353				
Prep Date:	7/19/2023	Analysis E	Date: 7/2	20/2023	S	SeqNo: 3	580804	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	1.1		1.000		114	39.1	146			
Sample ID:	mb-76322	SampT	Гуре: МВ	LK	Tes	tCode: EF	PA Method	8021B: Volatil	es		
Client ID:	PBS	Batch	h ID: 763	322	F	RunNo: 98	3353				
Prep Date:	7/19/2023	Analysis E	Date: 7/2	20/2023	S	SeqNo: 3	580812	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	1.2		1.000		117	39.1	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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2307747

28-Jul-23
HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3975	4901 Hawkins NE Iquerque. NM 87109	Sam	nple Log-In Che	eck List
Client Name: Vertex Resources Services, Inc.	Work Order Number:	2307747		RcptNo: 1	
Received By: Tracy Casarrubias	7/18/2023 7:10:00 AM				
Completed By: Tracy Casarrubias	7/18/2023 7:22:37 AM				
Reviewed By: 747/18/23					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗌	No 🗹	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
Log In 3. Was an attempt made to cool the sample	es?	Yes 🗹	No 🗌		
4. Were all samples received at a temperat	ure 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 te	st(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) pro	perly 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 br	roken?	Yes	No 🗹	# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	•	Yes 🔽	No 🗌	for pH: (<2 or >1;	2 unless noted)
12. Are matrices correctly identified on Chair	n of Custody?	Yes 🗹	No 🗌	Adjusted?	$\sim - r$
13. Is it clear what analyses were requested?	?		No 🗌	1500	n min/23
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by SCI	10/10/-
<u>Special Handling (if applicable)</u>					
15. Was client notified of all discrepancies w	vith this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date:	Contraction of Contraction (Contraction)			
By Whom:	Via:] eMail 🔄 Phone	e 🗌 Fax	In Person	
Regarding:				The second sector block characteristics (Sec	
Client Instructions: Mailing addre	ess.phone number and Email/	Fax are missing on	COC - TN	IC 7/18/23	
16. Additional remarks:					
17. <u>Cooler Information</u> <u>Cooler No</u> Temp °C Condition 1 3.9 Good	Seal Intact Seal No S Yes Yogi	ieal Date Sig	ned By		

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Received	41867	- 5 f4@e	fstody Record	Turn-Around	Time:				e er set	н	ΔΙ	E	NV	TE	20	NM	16	Page	182 o	f 248
Client:		Vertex		⊟ Standard	X Rusi	n3-day			_									то		
(direct b	pill to De	von-Harv	ard Divest, see Remarks)	Project Nam							ww.h									
Mailing				North Pure	Gold 8 Feder	al 011		490)1 Ha	awkir	s NE	- AI	buqu	erqu	e, NI	VI 87	109			
				Project #:				Te	1. 50	5-348	5-397	5	Fax	505-	-345-	4107	,			
Phone #	¥:			22E-02816-0	9					19		Anal	ysis	Req	uest					
email or	r Fax#:			Project Mana	ager:		Ê	ô		6		SO4			ent)					
QA/QC F	Package:			Kent Stalling	s		802	μ	PCB's		MS	PO4, 9			Abse					
🗆 Stan	dard		Level 4 (Full Validation)	kstallings@v	ertex.ca		TMB's (8021)	DRO / MRO)	2 PC		8270SIMS] d			ent/					
Accredi			ompliance	Sampler:	L.Pullman		Ĩ	-	808	4.1)		NO ₂ ,		2	rese					
		□ Other		On Ice:	V Yes	No yogi	(GRO 01 50/2014 50/200000000000000000000000000000000000													
	(Type)	<u> </u>		# of Coolers: Cooler Temp		9-0=39-	(/ MTBE / TMB's (8021) 8015D(GRO / DRO / MRO) Besticides/8082 PCB's (Method 504.1) (NO3, NO2, PO4, S04 (VOA) (VOA) (VOA) (Semi-VOA) Coliform (Present/Absent)													
							X / M X / M													
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.														
07/14/23	08:00	Soil	BH23-10 0'	1, 4oz jar		1001	x	x				X								
07/14/23	08:25	Soil	BH23-10 2'	1, 4oz jar		007	x	x				x								
07/14/23	07:55	Soil	BH23-11 0'	1, 4oz jar		003	x	x				x								
07/14/23	08:00	Soil	BH23-11 2'	1, 4oz jar		004	x	х				x								
07/14/23	08:15	Soil	BH23-12 0'	1, 4oz jar		005	x	х				x								
07/14/23	08:20	Soil	BH23-12 2'	1, 4oz jar		006	x	x				x								
07/14/23	08:30	Soil	BH23-13 0'	1, 4oz jar		FOO	x	х				x								
07/14/23	08:35	Soil	BH23-13 2'	1, 4oz jar		008	x	х				x								
07/14/23	08:50	Soil	BH23-14 0'	1, 4oz jar		009	x	х				x								
07/14/23	09:00	Soil	BH23-14 2'	1, 4oz jar		010	x	x				X								
07/14/23	08:50	Soil	BH23-15 0'	1, 4oz jar		011	x x x													
07/14/23	09:00	Soil	BH23-15 2'	1, 4oz jar		012														
Date: 9-17-33			Man	Received by:	Via:	117173 100	η_{0D} Harvard Divest Site – North Pure Gold 8 Federal 011													
Date:	Time: (90D	Relinquish	ed by:	Received by:	Via: Caurie		7:10 CC 1007884901													

	x gcp:	574C%	StodyPRecord	Turn-Around															
Client:		Vertex		Standard		3-day				AN	IAL	YS	IS	L	AB	OR	AIG	JR	T
			ard Divest, see Remarks)	Project Name	:					ww	w.hal	llenvi	ronn	nent	al.cor	n			
	Address:		and Divest, see Remarkey	North Pure 0	old 8 Federa	d 011 .		490	1 Hav	vkins	NE -	Alb	uque	erque	e, NN	18710	19		
				Project #:				Tel	. 505	345-	3975	F	ax :	505-	345-4	4107			
				22E-02816-0	٥		and a	1		-	A	Analy	sis I	Req	uest				
Phone #				Project Mana				ô				SO4			f)				
email or				Kent Stallings	-		(8021)	MRO)	S.	SV V					bse				
QA/QC F	-			kstallings@v			0	~	PCB's			PO4,			nt/A				
□ Stand			Level 4 (Full Validation)	Sampler:	L.Pullman		TMB	DRO	082	8270SIMS	;	NO_2 ,		_	ese				
Accredit		□ Az Co □ Other	mpliance	On Ice:		□ No		20	ss/8					(A)	P_				
				# of Coolers:			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 CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)												
	<u> </u>			Cooler Temp		e cheeklist	TEX / MTE 3TEX / MTE 8081 Pestici 5DB (Metho EDB (Metho EDB (Metho CI, F, Br, N 8260 (VOA) 8270 (Semi 7otal Colifor												
				Container	Preservative	HEAL No.	BTEX	H:8(2 8	L LL	60 (70 (Total (
Date	Time	Matrix	Sample Name	Type and #	Туре	2307747	BT	Ч	8081			ਹੱ	82	82	P			\vdash	_
07/14/23	09:05	Soil	BH23-16 0'	1, 4oz jar		013	x	X				X						$\left - \right $	
07/14/23	09:20	Soil	BH23-16 2'	1, 4oz jar		014	X	X				X						$\left - \right $	
07/14/23	09:05	Soil	BH23-17 0'	1, 4oz jar		015	X	Х				X						┼─┼	
07/14/23	09:20	Soil	BH23-17 2'	1, 4oz jar		016	X	X				X			$\left \right $	_		┝─┤	
07/14/23	10:10	Soil	BH23-18 0'	1, 4oz jar		017	X	X		_	_	X					_	+	
07/14/23	10:15	Soil	BH23-18 2'	1, 4oz jar		018	X	x				X						\rightarrow	
07/14/23	10:25	Soil	BH23-19 0'	1, 4oz jar		019	X	x				x						\rightarrow	
07/14/23	10:30	Soil	BH23-19 2'	1, 4oz jar		020	X	x				X		ļ					┝━╋
07/14/23		Soil	BH23-20 0'	1, 4oz jar		021	X	x				X						+	┝
07/14/23		Soil	BH23-20 2'	1, 4oz jar		022	X	X				X		-				+	-+
07/14/23		Soil	BH23-21 0'	1, 4oz jar		023	x	X	-+			X							\vdash
07/14/23			BH23-21 2'	1, 4oz jar	•	024	X X X Remarks: Direct bill to Devon, Dale Woodall												
Date:	Time:	Relinquis	hed by:	Received by:	Via:	Date Time	Harvard Divest Site – North Pure Gold 8 Federal 011												
7-17-23	00.00	1 Jaki	Hullion	1 grun	min	7/17/23 700	GL Account 7700100					ſ.							
Date:	Time:	Relinquis		Received by:	Via:Caur	Date Time	cc	100	7884	01			د نسی		1	wh		/	4
7/17/00	3 1900	n	MILLIE	1	2	2/19/27	cc. kstallings@vertex.ca for Final Report Ce of this possibility. Any sub-contracted data will be clearly notated on the analytical report.												

	4n 8677:	- 8 f4/@ł	istery Record	Turn-Around	Time:		HALL ENVIRONMENTAL ANALYSIS LABORATORY					248							
Client:		Vertex		☐ Standard	X Rust	n3-day		7											
(direct b	hill to De	von-Harv	ard Divest, see Remarks)	Project Name						v	vww.h	allenv	/i ro nr	ment	tal.co	m			
	Address			North Pure (Gold 8 Federa	al 011		491	01 Ha	awkir	ns NE	- Alt	ouque	erqu	e, NN	V 871	109		
				Project #:				Te	el. 50{	5-34{	5-3975	5	Fax	505-	-345-4	4107	,		
Phone #	<i>‡</i> :			22E-02816-0	19							Analy	ysis	Req	uest				
email or	Fax#:			Project Mana	iger:		E.					SO4			ent)				
QA/QC F	Package:			Kent Stallings			TMB's (8021)	/ DRO / MRO)	PCB's		8270SIMS	PO4, 3			Abs				
🗆 Stand	dard		□ Level 4 (Full Validation)	kstallings@ve			B's	RO			70S	2, P			ent				
Accredit			ompliance		L.Pullman		Į₽		/808	1.1	or 82	NO ₂ ,		8	Pres				
		□ Other		On Ice: # of Coolers:	□ Yes	🗆 No	Щ.	GRC	des	d 50	10 0 tals	NO ₃ ,		NON-	(f				
	(196)-		<u> </u>			e checklot	/ MTBE / MTBE / MTBE / MTBE / Method 5/ Pesticidess / Method 5/ Br, NO ₃ , 8310 (VOA) / VOA) / Semi-VO /												
	1				Preservative		BTEX / MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's BDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals RCRA 8 Metals CI, F, Br, NO ₂ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8260 (VOA) 10tal Coliform (Present/Absent)												
Date	Time	Matrix	Sample Name		Type	HEAL No. 2307747	BTEX / MTBE / TMB BTEX / MTBE / TMB TPH:8015D(GRO / DR 8081 Pesticides/8082 8081 Pesticides/8082 BAHs by 8310 or 827 CI, F, Br, NO ₃ , NO ₂ CI, F, Br, NO ₃ , NO ₂ 8260 (VOA) 8260 (VOA) 8260 (VOA) 104al Coliform (Presei												
07/14/23	11:30	Soil	BH23-22 0'	1, 4oz jar		025	x	x				x							
07/14/23	11:35	Soil	BH23-22 2'	1, 4oz jar		026	x	x				x				\square			
07/14/23	11:50	Soil	BH23-23 0'	1, 4oz jar		027	x	x				x							
07/14/23	11:55	Soil	BH23-23 2'	1, 4oz jar		028	x	x				x							
07/14/23	12:00	Soil	BH23-24 0'	1, 4oz jar		029	x	x				x				\square			_
07/14/23	12:05	Soil	BH23-24 2'	1, 4oz jar		030	x	x				x							
07/14/23	12:10	Soil	BH23-25 0'	1, 4oz jar		031	x	x				x				_			_
07/14/23	12:15	Soil	BH23-25 2'	1, 4oz jar		032	x	x				X				$ \rightarrow$			
07/14/23	12:20	Soil	BH23-26 0'	1, 4oz jar		033	x	x				X					\square		
07/14/23	12:25	Soil	BH23-26 2'	1, 4oz jar		034	x	x				x		ļ!					
07/14/23	12:50	Soil	BH23-27 0'	1, 4oz jar		035	x x x												
07/14/23	12:55	Soil	BH23-27 2'	1, 4oz jar		036													
/	Time:	Relinquish	ed by	Received by:	Via:	Date Time	Henverd Divect Site North Ruro Cold 8 Federal 011												
5-17-23	<u> </u>	JAAM	PAULIN	1 acrim	Mia	1/17/23 100	GL Account 7700100												
Date:	Time:	Relinquish	ied by:	Received by:	Via: Caury	7:0	2/4 CC 1007884901												
117723	1900	Lyci	ung)			7/18/23	cc. kstallings@vertex.ca for Final Report												

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QA/QC F	Package:			Kent Stalling	s		(8021)	MRO)	PCB's		MS		PO4, S			vbse					
🗆 Stan	dard		Level 4 (Full Validation)	kstallings@v	ertex.ca		l o	DRO /			0SI					ent/P					
Accredi			ompliance	Sampler:	L.Pullman		TMB	-	3082	,	827		NO ₂ ,			rese					
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Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2307747	BTEX	TPH:801	8081	EDB	PAH	RCR	С, Н	8260	8270	Total					
07/14/23	13:10	Soil	BH23-28 0'	1, 4oz jar		037	x	x					x								
07/14/23	13:15	Soil	BH23-28 2'	1, 4oz jar		038	x	x					x								
07/14/23	13:20	Soil	BH23-29 0'	1, 4oz jar		039	x	x					x								
07/14/23	13:25	Soil	BH23-29 2'	1, 4oz jar		040	x	x					x								
07/14/23	13:35	Soil	BH23-30 0'	1, 4oz jar		041	x	x					x								
07/14/23	13:40	Soil	BH23-30 2'	1, 4oz jar		042	x	x					x								
07/14/23	13:40	Soil	BH23-31 0'	1, 4oz jar		043	x	x					x								
07/14/23	13:45	Soil	BH23-31 2'	1, 4oz jar		044	x	x					x								
07/14/23	13:55	Soil	BH23-32 0'	1, 4oz jar		045	x	x					x								
07/14/23	14:00	Soil	BH23-32 2'	1, 4oz jar		046	x	x					x								
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11723	Pip	acu	mino	0		7/18/23 7:10	cc. kstallings@vertex.ca for Final Report														



July 25, 2023

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

RE: North Pure Gold 8 Federal 001

OrderNo.: 2307825

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/19/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project:

CLIENT: Vertex Resources Services, Inc.

North Pure Gold 8 Federal 001

Analytical Report Lab Order 2307825

Date Reported: 7/25/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-33 0.0' Collection Date: 7/17/2023 9:00:00 AM **Received Date:** 7/10/2023 7:30:00 AM

Lab ID: 2307825-001	Matrix: SOIL	Rece	eived Date:	7/19/2	2023 7:30:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/21/2023 2:58:08 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/21/2023 2:58:08 AM
Surr: DNOP	76.6	69-147	%Rec	1	7/21/2023 2:58:08 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/20/2023 3:49:48 PM
Surr: BFB	97.3	15-244	%Rec	1	7/20/2023 3:49:48 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	7/20/2023 3:49:48 PM
Toluene	ND	0.049	mg/Kg	1	7/20/2023 3:49:48 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/20/2023 3:49:48 PM
Xylenes, Total	ND	0.099	mg/Kg	1	7/20/2023 3:49:48 PM
Surr: 4-Bromofluorobenzene	116	39.1-146	%Rec	1	7/20/2023 3:49:48 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	7/21/2023 12:06:10 AM

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

Qualifiers:

* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

Page 1 of 10

Project:

CLIENT: Vertex Resources Services, Inc.

North Pure Gold 8 Federal 001

Analytical Report Lab Order 2307825

Date Reported: 7/25/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-33 2.0' Collection Date: 7/17/2023 9:10:00 AM **Received Date:** 7/10/2023 7:30:00 AM

Lab ID: 2307825-002	Matrix: SOIL	Rece	ived Date:	7/19/2	023 7:30:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	7/21/2023 3:22:00 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	7/21/2023 3:22:00 AM
Surr: DNOP	93.7	69-147	%Rec	1	7/21/2023 3:22:00 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/20/2023 4:13:36 PM
Surr: BFB	97.5	15-244	%Rec	1	7/20/2023 4:13:36 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	7/20/2023 4:13:36 PM
Toluene	ND	0.048	mg/Kg	1	7/20/2023 4:13:36 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/20/2023 4:13:36 PM
Xylenes, Total	ND	0.095	mg/Kg	1	7/20/2023 4:13:36 PM
Surr: 4-Bromofluorobenzene	115	39.1-146	%Rec	1	7/20/2023 4:13:36 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	7/21/2023 12:18:35 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 2 of 10

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CLIENT: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 001

Analytical Report Lab Order 2307825

Date Reported: 7/25/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-34 0.0' Collection Date: 7/17/2023 9:50:00 AM oived Date: 7/10/2022 7:20:00 AM

Lab ID: 2307825-003	Matrix: SOIL	Rece	eived Date:	7/19/2	023 7:30:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/21/2023 3:45:48 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/21/2023 3:45:48 AM
Surr: DNOP	89.1	69-147	%Rec	1	7/21/2023 3:45:48 AM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/20/2023 4:37:21 PM
Surr: BFB	98.3	15-244	%Rec	1	7/20/2023 4:37:21 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	7/20/2023 4:37:21 PM
Toluene	ND	0.049	mg/Kg	1	7/20/2023 4:37:21 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/20/2023 4:37:21 PM
Xylenes, Total	ND	0.098	mg/Kg	1	7/20/2023 4:37:21 PM
Surr: 4-Bromofluorobenzene	117	39.1-146	%Rec	1	7/20/2023 4:37:21 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	730	60	mg/Kg	20	7/21/2023 12:30:59 AM

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

Qualifiers:

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

Page 3 of 10

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Project:

CLIENT: Vertex Resources Services, Inc.

North Pure Gold 8 Federal 001

Analytical Report Lab Order 2307825

Date Reported: 7/25/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-34 2.0' Collection Date: 7/17/2023 10:00:00 AM Received Date: 7/19/2023 7:30:00 AM

Lab ID: 2307825-004	Matrix: SOIL	Rece	eived Date:	7/19/2	023 7:30:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	7/21/2023 4:33:10 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	7/21/2023 4:33:10 AM
Surr: DNOP	96.2	69-147	%Rec	1	7/21/2023 4:33:10 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/20/2023 5:01:13 PM
Surr: BFB	96.6	15-244	%Rec	1	7/20/2023 5:01:13 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	7/20/2023 5:01:13 PM
Toluene	ND	0.050	mg/Kg	1	7/20/2023 5:01:13 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/20/2023 5:01:13 PM
Xylenes, Total	ND	0.10	mg/Kg	1	7/20/2023 5:01:13 PM
Surr: 4-Bromofluorobenzene	115	39.1-146	%Rec	1	7/20/2023 5:01:13 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	7/21/2023 1:08:13 AM

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

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 10

CLIENT: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 001

Analytical Report Lab Order 2307825

Date Reported: 7/25/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-35 0.0' Collection Date: 7/17/2023 9:30:00 AM oived Date: 7/10/2022 7:20:00 AM

Lab ID: 2307825-005	Matrix: SOIL	R	eceiv	ed Date:	7/19/2	023 7:30:00 AM
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	7/21/2023 6:56:45 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/21/2023 6:56:45 PM
Surr: DNOP	56.2	69-147	S	%Rec	1	7/21/2023 6:56:45 PM
EPA METHOD 8015D: GASOLINE RA	ANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/20/2023 5:25:01 PM
Surr: BFB	97.0	15-244		%Rec	1	7/20/2023 5:25:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	7/20/2023 5:25:01 PM
Toluene	ND	0.048		mg/Kg	1	7/20/2023 5:25:01 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/20/2023 5:25:01 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/20/2023 5:25:01 PM
Surr: 4-Bromofluorobenzene	116	39.1-146		%Rec	1	7/20/2023 5:25:01 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	89	60		mg/Kg	20	7/21/2023 1:20:38 AM

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

Qualifiers:

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

Page 5 of 10

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Project:

CLIENT: Vertex Resources Services, Inc.

North Pure Gold 8 Federal 001

Analytical Report Lab Order 2307825

Date Reported: 7/25/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-35 2.0' Collection Date: 7/17/2023 9:40:00 AM **Deceived Deter** 7/10/2022 7:20:00 AM

Lab ID: 2307825-006	Matrix: SOIL	Rece	eived Date:	7/19/2	023 7:30:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGI	EORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/21/2023 5:20:33 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/21/2023 5:20:33 AM
Surr: DNOP	91.0	69-147	%Rec	1	7/21/2023 5:20:33 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/20/2023 5:48:48 PM
Surr: BFB	97.2	15-244	%Rec	1	7/20/2023 5:48:48 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	7/20/2023 5:48:48 PM
Toluene	ND	0.048	mg/Kg	1	7/20/2023 5:48:48 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/20/2023 5:48:48 PM
Xylenes, Total	ND	0.097	mg/Kg	1	7/20/2023 5:48:48 PM
Surr: 4-Bromofluorobenzene	116	39.1-146	%Rec	1	7/20/2023 5:48:48 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	7/21/2023 1:33:02 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 6 of 10

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Client: Project:		ex Resources S th Pure Gold 8									
Sample ID:	MB-76371	SampT	Гуре: mb	lk	Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID:	PBS	Batch	h ID: 763	371	F	RunNo: 98	3399				
Prep Date:	7/20/2023	Analysis E	Date: 7/2	20/2023	5	SeqNo: 3	581746	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-76371	SampT	Гуре: Ics		Tes	tCode: EF	PA Method	300.0: Anions	5		
Client ID:	LCSS	Batch	h ID: 763	371	F	RunNo: 98	3399				
Prep Date:	7/20/2023	Analysis E	Date: 7/2	20/2023	5	SeqNo: 3	581747	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	96.2	90	110			

Qualifiers:

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

2307825

25-Jul-23

WO#:

Result

ND

ND

10

Result

43

4.4

PQL

SampType: LCS

Batch ID: 76333

Analysis Date: 7/21/2023

PQL

10

10

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Page	194	of	248
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L		tal Analysis Laboratory	wo#: 2307825 25-Jul-23
Client: Project:		Resources Services, Inc. Pure Gold 8 Federal 001	
Sample ID: 1	MB-76333	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID:	PBS	Batch ID: 76333	RunNo: 98368
Prep Date:	7/19/2023	Analysis Date: 7/20/2023	SeqNo: 3581346 Units: mg/Kg

%REC

101

RunNo: 98368

%REC

86.6

88.4

SeqNo: 3581347

LowLimit

LowLimit

61.9

69

69

HighLimit

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

147

Units: mg/Kg

130

147

HighLimit

%RPD

%RPD

RPDLimit

RPDLimit

Qual

Qual

SPK value SPK Ref Val

SPK Ref Val

0

10.00

SPK value

50.00

5.000

Qualifiers:

Analyte

Surr: DNOP

Client ID:

Prep Date:

Surr: DNOP

Analyte

Diesel Range Organics (DRO)

Sample ID: LCS-76333

Diesel Range Organics (DRO)

LCSS

7/19/2023

Motor Oil Range Organics (MRO)

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

Page 8 of 10

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		esources Se e Gold 8 F									
Sample ID:	lcs-76322	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID:	LCSS	Batch	ID: 76	322	F	RunNo: 98	3353				
Prep Date:	7/19/2023	Analysis D	ate: 7/	20/2023	S	SeqNo: 3	580780	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	je Organics (GRO)	23	5.0	25.00	0	91.0	70	130			
Surr: BFB		2000		1000		197	15	244			
Sample ID:	mb-76322	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID:	PBS	Batch	ID: 76	322	F	RunNo: 98	3353				
Prep Date:	7/19/2023	Analysis D	ate: 7/	20/2023	S	SeqNo: 3	580811	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		980		1000		98.4	15	244			
Sample ID:	2307825-001ams	SampT	ype: MS	3	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Sample ID: Client ID:	2307825-001ams BH23-33 0.0'	•	ype: MS ID: 76 :			tCode: EF		8015D: Gaso	line Range		
		•	ID: 76:	322	F		3353	8015D: Gaso Units: mg/K	U		
Client ID:	BH23-33 0.0'	Batch	ID: 76:	322	F	RunNo: 98	3353		U	RPDLimit	Qual
Client ID: Prep Date: Analyte	BH23-33 0.0'	Batch Analysis D	ID: 76: ate: 7/	322 20/2023	F	RunNo: 98 SeqNo: 38	3353 581479	Units: mg/K	g		Qual
Client ID: Prep Date: Analyte	BH23-33 0.0' 7/19/2023	Batch Analysis D Result	ID: 76: ate: 7/ PQL	322 20/2023 SPK value	F S SPK Ref Val	RunNo: 98 SeqNo: 38 %REC	3353 581479 LowLimit	Units: mg/K HighLimit	g		Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	BH23-33 0.0' 7/19/2023	Batch Analysis D Result 23 2000	ID: 76: ate: 7/ PQL	322 20/2023 SPK value 24.75 990.1	F SPK Ref Val 0	RunNo: 98 SeqNo: 38 %REC 94.3 202	3353 581479 LowLimit 70 15	Units: mg/K HighLimit 130	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	BH23-33 0.0' 7/19/2023 ge Organics (GRO)	Batch Analysis D Result 23 2000 SampT	ID: 76 ate: 7 / PQL 5.0	322 20/2023 SPK value 24.75 990.1	F SPK Ref Val 0 Tes	RunNo: 98 SeqNo: 38 %REC 94.3 202	3353 581479 LowLimit 70 15 PA Method	Units: mg/K HighLimit 130 244	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID:	BH23-33 0.0' 7/19/2023 ge Organics (GRO) 2307825-001amsd	Batch Analysis D Result 23 2000 SampT	ID: 76 ; ate: 7 / <u>PQL</u> 5.0 ype: MS ID: 76 ;	322 20/2023 SPK value 24.75 990.1 SD 322	F SPK Ref Val 0 Tes F	RunNo: 98 SeqNo: 38 %REC 94.3 202 tCode: EF	3353 581479 LowLimit 70 15 PA Method 3353	Units: mg/K HighLimit 130 244	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID:	BH23-33 0.0' 7/19/2023 ge Organics (GRO) 2307825-001amsd BH23-33 0.0'	Batch Analysis D Result 23 2000 SampT Batch	ID: 76 ; ate: 7 /, <u>PQL</u> 5.0 ype: MS ID: 76 ;	322 20/2023 SPK value 24.75 990.1 SD 322 20/2023	F SPK Ref Val 0 Tes F	RunNo: 98 SeqNo: 38 %REC 94.3 202 tCode: EF	3353 581479 LowLimit 70 15 PA Method 3353	Units: mg/K HighLimit 130 244 8015D: Gaso	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte	BH23-33 0.0' 7/19/2023 ge Organics (GRO) 2307825-001amsd BH23-33 0.0'	Batch Analysis D Result 23 2000 SampT Batch Analysis D	ID: 76: ate: 7/ PQL 5.0 ype: MS ID: 76: ate: 7/	322 20/2023 SPK value 24.75 990.1 SD 322 20/2023	F SPK Ref Val 0 Tes F	RunNo: 98 SeqNo: 38 %REC 94.3 202 tCode: EF RunNo: 98 SeqNo: 38	3353 581479 LowLimit 70 15 PA Method 3353 581480	Units: mg/K HighLimit 130 244 8015D: Gaso Units: mg/K	g %RPD line Range	RPDLimit	

Qualifiers:

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

2307825

25-Jul-23

WO#:

Client: Project:	Vertex Re North Pur										
Sample ID:	LCS-76322	Samp	Гуре: LC	s	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID:	LCSS	Batc	h ID: 763	322	F	RunNo: 98	353				
Prep Date:	7/19/2023	Analysis [Date: 7/2	20/2023	S	SeqNo: 35	80804	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.025	1.000	0	104	70	130			
Toluene		1.0	0.050	1.000	0	104	70	130			
Ethylbenzene		1.1	0.050	1.000	0	105	70	130			
Xylenes, Total		3.2	0.10	3.000	0	107	70	130			
Surr: 4-Brom	nofluorobenzene	1.1		1.000		114	39.1	146			
Sample ID:	mb-76322	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID:	PBS	Batc	h ID: 763	322	F	RunNo: 98	353				
Prep Date:	7/19/2023	Analysis [Date: 7/2	20/2023	5	SeqNo: 35	80812	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	nofluorobenzene	1.2		1.000		117	39.1	146			
Sample ID:	2307825-002ams	Samp [¬]	Гуре: МS	;	Tes	tCode: EF	A Method	8021B: Volati	les		
Sample ID: Client ID:	2307825-002ams BH23-33 2.0'		Гуре: МS h ID: 76 3			tCode: EF RunNo: 98		8021B: Volati	les		
			h ID: 763	322	F		353	8021B: Volati Units: mg/K			
Client ID:	BH23-33 2.0'	Batc	h ID: 763	322 20/2023	F	RunNo: 98	353			RPDLimit	Qual
Client ID: Prep Date: Analyte	BH23-33 2.0'	Batc Analysis [h ID: 763 Date: 7/2	322 20/2023	F	RunNo: 98 SeqNo: 35	353 81517	Units: mg/K	g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene	BH23-33 2.0'	Batc Analysis I Result 1.1 1.1	h ID: 763 Date: 7/2 PQL 0.024 0.047	20/2023 SPK value 0.9497 0.9497	F S SPK Ref Val	RunNo: 98 SeqNo: 35 %REC 114 115	353 81517 LowLimit 70 70	Units: mg/K HighLimit 130 130	g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene	BH23-33 2.0'	Batc Analysis I Result 1.1	h ID: 763 Date: 7/2 PQL 0.024 0.047 0.047	322 20/2023 SPK value 0.9497	F SPK Ref Val 0	RunNo: 98 SeqNo: 35 %REC 114	3353 381517 LowLimit 70	Units: mg/K HighLimit 130 130 130	g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	BH23-33 2.0' 7/19/2023	Batc Analysis I Result 1.1 1.1	h ID: 763 Date: 7/2 PQL 0.024 0.047	222 20/2023 SPK value 0.9497 0.9497 0.9497 2.849	F SPK Ref Val 0 0	RunNo: 98 SeqNo: 35 <u>%REC</u> 114 115 117 118	353 81517 LowLimit 70 70	Units: mg/K HighLimit 130 130	g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	BH23-33 2.0'	Batc Analysis I Result 1.1 1.1 1.1	h ID: 763 Date: 7/2 PQL 0.024 0.047 0.047	222 20/2023 SPK value 0.9497 0.9497 0.9497	F SPK Ref Val 0 0 0	RunNo: 98 SeqNo: 35 <u>%REC</u> 114 115 117	353 81517 LowLimit 70 70 70 70	Units: mg/K HighLimit 130 130 130	g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	BH23-33 2.0' 7/19/2023	Batc Analysis I Result 1.1 1.1 1.1 3.4 1.1	h ID: 763 Date: 7/2 PQL 0.024 0.047 0.047	322 20/2023 SPK value 0.9497 0.9497 0.9497 2.849 0.9497	F SPK Ref Val 0 0 0 0	RunNo: 98 SeqNo: 35 %REC 114 115 117 118 118 118	353 81517 LowLimit 70 70 70 70 39.1	Units: mg/K HighLimit 130 130 130 130	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	BH23-33 2.0' 7/19/2023	Batc Analysis I Result 1.1 1.1 1.1 3.4 1.1 Samp	h ID: 763 Date: 7/2 PQL 0.024 0.047 0.047 0.095	322 20/2023 SPK value 0.9497 0.9497 0.9497 2.849 0.9497	F SPK Ref Val 0 0 0 0 0 Tes	RunNo: 98 SeqNo: 35 %REC 114 115 117 118 118 118	353 81517 LowLimit 70 70 70 70 39.1 A Method	Units: mg/K HighLimit 130 130 130 130 146	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID:	BH23-33 2.0' 7/19/2023 nofluorobenzene 2307825-002amsd	Batc Analysis I Result 1.1 1.1 1.1 3.4 1.1 Samp	h ID: 763 Date: 7/2 PQL 0.024 0.047 0.047 0.095 Type: MS h ID: 763	322 20/2023 SPK value 0.9497 0.9497 0.9497 2.849 0.9497 5D 322	F SPK Ref Val 0 0 0 0 Tes F	RunNo: 98 SeqNo: 35 <u>%REC</u> 114 115 117 118 118 118 tCode: EF	3353 881517 2000 200 70 70 70 70 39.1 24 Method 3353	Units: mg/K HighLimit 130 130 130 130 146	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID:	BH23-33 2.0' 7/19/2023 nofluorobenzene 2307825-002amsd BH23-33 2.0'	Batc Analysis I Result 1.1 1.1 1.1 3.4 1.1 Samp Batc Analysis I Result	h ID: 763 Date: 7/2 PQL 0.024 0.047 0.047 0.095 Type: MS h ID: 763 Date: 7/2 PQL	322 20/2023 SPK value 0.9497 0.9497 2.849 0.9497 2.849 0.9497 5D 322 20/2023	F SPK Ref Val 0 0 0 0 Tes F	RunNo: 98 SeqNo: 35 %REC 114 115 117 118 118 tCode: EF RunNo: 98 SeqNo: 35 %REC	353 881517 LowLimit 70 70 70 39.1 24 Method 353 881518 LowLimit	Units: mg/K HighLimit 130 130 130 130 146 8021B: Volati	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date:	BH23-33 2.0' 7/19/2023 nofluorobenzene 2307825-002amsd BH23-33 2.0'	Batc Analysis I Result 1.1 1.1 1.1 3.4 1.1 Samp Batc Analysis I	h ID: 763 Date: 7/2 PQL 0.024 0.047 0.047 0.095 Type: MS h ID: 763 Date: 7/2	322 20/2023 SPK value 0.9497 0.9497 2.849 0.9497 2.849 0.9497 5D 322 20/2023	F SPK Ref Val 0 0 0 0 0 Tes F	RunNo: 98 SeqNo: 35 %REC 114 115 117 118 118 tCode: EF RunNo: 98 SeqNo: 35	2353 281517 2000 200 200 200 200 200 200 200 200 2	Units: mg/K HighLimit 130 130 130 130 146 8021B: Volati Units: mg/K	g %RPD les		
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte	BH23-33 2.0' 7/19/2023 nofluorobenzene 2307825-002amsd BH23-33 2.0'	Batc Analysis I Result 1.1 1.1 1.1 3.4 1.1 Samp Batc Analysis I Result	h ID: 763 Date: 7/2 PQL 0.024 0.047 0.047 0.095 Type: MS h ID: 763 Date: 7/2 PQL	322 20/2023 SPK value 0.9497 0.9497 2.849 0.9497 2.849 0.9497 5D 322 20/2023 SPK value	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val	RunNo: 98 SeqNo: 35 %REC 114 115 117 118 118 tCode: EF RunNo: 98 SeqNo: 35 %REC	353 881517 LowLimit 70 70 70 39.1 24 Method 353 881518 LowLimit	Units: mg/K HighLimit 130 130 130 130 146 8021B: Volati Units: mg/K HighLimit	g %RPD les g %RPD	RPDLimit	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte Benzene	BH23-33 2.0' 7/19/2023 nofluorobenzene 2307825-002amsd BH23-33 2.0'	Batc Analysis I Result 1.1 1.1 1.1 3.4 1.1 Samp Batc Analysis I Result 1.1	h ID: 763 Date: 7/2 PQL 0.024 0.047 0.047 0.095 Type: MS h ID: 763 Date: 7/2 PQL 0.024	322 20/2023 SPK value 0.9497 0.9497 2.849 0.9497 2.849 0.9497 5D 322 20/2023 SPK value 0.9488	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val 0	RunNo: 98 SeqNo: 35 %REC 114 115 117 118 118 tCode: EF RunNo: 98 SeqNo: 35 %REC 113	3353 881517 LowLimit 70 70 70 39.1 A Method 3353 881518 LowLimit 70	Units: mg/K HighLimit 130 130 130 130 146 8021B: Volati Units: mg/K HighLimit 130	g %RPD les g %RPD 0.695	RPDLimit 20	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brorr Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	BH23-33 2.0' 7/19/2023 nofluorobenzene 2307825-002amsd BH23-33 2.0'	Batc Analysis I Result 1.1 1.1 1.1 3.4 1.1 Samp Batc Analysis I Result 1.1 1.1	h ID: 763 Date: 7/2 PQL 0.024 0.047 0.047 0.095 Type: MS h ID: 763 Date: 7/2 PQL 0.024 0.047	322 20/2023 SPK value 0.9497 0.9497 2.849 0.9497 2.849 0.9497 322 20/2023 SPK value 0.9488 0.9488	F SPK Ref Val 0 0 0 0 Tes 5 SPK Ref Val 0 0	RunNo: 98 SeqNo: 35 %REC 114 115 117 118 118 tCode: EF RunNo: 98 SeqNo: 35 %REC 113 114	3353 881517 LowLimit 70 70 70 70 39.1 70 39.1 70 39.1 70 39.1 10 10 10 10 70 70 70 70 70 70 70 70 70 7	Units: mg/K HighLimit 130 130 130 130 130 146 8021B: Volati 8021B: Volati Units: mg/K HighLimit 130 130	g %RPD les g %RPD 0.695 0.971	RPDLimit 20 20	

Qualifiers:

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

Page 10 of 10

HALL ENVIRONMENTA ANALYSIS LABORATORY	L	ıl Analysis Laboratory 4901 Hawkins NE buquerque, NM 87109 75 FAX: 505-345-4107 hallenvironmental.com		ple Log-In Check List
Client Name: Vertex Resc Services, In		er: 2307825		RcptNo: 1
Received By: Juan Roja	s 7/19/2023 7:30:00 Al	vi 4	Van Lo	
Completed By: Cheyenne		vi G	ful	
Reviewed By: フルチル	9/23			
Chain of Custody				
1. Is Chain of Custody compl		Yes 🗹	No 🗌	Not Present
2. How was the sample delive	ered?	Courier		
Log In 3. Was an attempt made to c	ool the samples?	Yes 🗹	No 🗌	NA 🗌
4. Were all samples received	at a temperature of $>0^{\circ}$ C to 6.0° C	Yes 🔽	No 🗌	NA 🗌
5. Sample(s) in proper contai	ner(s)?	Yes 🗹	No 🗌	
6. Sufficient sample volume for	or 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 🗌
	h headspace <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹
10. Were any sample containe	ers received broken?	Yes	No 🗹 🏻	# of preserved
11.Does paperwork match bot (Note discrepancies on cha		Yes 🗹	No 🗆	for pH: (<2 or >12 unless noted)
12. Are matrices correctly iden	tified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?
13. Is it clear what analyses we	ere requested?	Yes 🗹		Checked by SGM 07/19 73
14. Were all holding times able (If no, notify customer for a		Yes 🗹	No 🗌	Checked by 54110 $ 4 + 2$
Special Handling (if app	olicable)			
15. Was client notified of all d	iscrepancies with this order?	Yes	No 🗌	NA 🗹
Person Notified:	Date:	ſ		
By Whom:	Via:	eMail Phor	ne 🗌 Fax	
Regarding: Client Instructions:		an anna ann an daoine an 17		
16. Additional remarks:				
17. <u>Cooler Information</u> Cooler No Temp ⁰C 1 3.5	ConditionSeal IntactSeal NoGoodNot PresentMorty	Seal Date Sig	gned By	
Page 1 of 1				

Received by OCD: 5/14/2025 2:04:25 PM

Page 197 of 248

Received	by	OCD :	5/14/	2025	2:04:25	5 <i>PM</i>
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eceived by OC	D: 5 /	/14/2025	2:04:25 PM						_										Pag	e 198 d	of 24
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Client:	V	ertez	7			tandard	Rush	3 DAY				A	NA	LY	SIS	5 L	AB	OR	AT	DR	Y
Direct B			wan-Harvard	Divest	Proje	ct Name	Sure hola	8				W	ww.l	haller	nviron	ment	al.cor	m			
Mailing Addre			See Rema	KS	F	der	1 001		4	490)1 Ha	awkin	s NE	- A				1 8710	9		
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Phone #:									_							Req			-		T
email or Fax#	¥:				Proje	ct Mana	iger:	e.5	21)	R O	<u>s</u>		ω	Ģ			sen				
QA/QC Packa	ge:			1.1-1		K-	+ //	evertex, ca	L TMB's (8021)	DRO / MRO)	PCB's		8270SIMS	G	5		tVAb	1			
□ Standard			Level 4 (Full Va	alidation)	Som	pler: 📈	AL	om nr, ca	- B	В И	8	Ŧ	3270		$\frac{5}{2}$		eser				
Accreditation		∃ Az Co ∃ Other	mpliance		On lo		Pres	🗆 No		log log	ss/8(00	뉭			(YO	L (P				
						Coolers:	1	Morty	MTBE	D D	licide	poq	8310	Aeta MO	R R	ni-V	form		10		
					Cool	er Temp	O(Including CF):	3-6-0-1= 3.5700		3015	Pest	Met	þ		ΞĮŞ	(Sel	Coli				
						ainer	Preservative		BTEX	TPH 8015D(GRO /	8081 Pesticides/8082	EDB (Method	PAHs by 8310	RCRA 8 Metals	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				
Date Time			Sample Name	1 1		and #	Туре	2307825	-19	F	œ	<u> </u>	≞┼	<u>m</u> [C		8					-
-17-23 090	00	50,1	B/HZ3-33	0.0	4	02	ICE	001		$\left \right $			-+-	-+-			\vdash				
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095	50		B1+23-34	0.0			1	003		↓			_	ares (1)	\parallel		$\left - \right $	-		++	+
100	0		B1723-34	2.0'			and South in	ocy.					-			-		_		┝──┝	+
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Date: Time	<u></u> _	Relinquis	hed by:		Rece	eived by:	<u>MAAA</u> yia:	Date Time	-17	-770	vol	1	ves	r 2	2116	teo	lero	1	011	-10	
	_						Ardin	4 Flahr 7	306	Ļa	cou	1000	ay	90	00						
				antol may be sul	bcontrac	ted to othe	r accredited laborato	ries. This serves as notice of	f this por	sibility	Any :	sub-cor	traçtec	t data v	vill be cle	early no	tated o	n the an	alytical re	port.	4-

Environmental Site Remediation Work Plan



Attachment 5.

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	e: North Pure Gold 8 Federal #011 dinates: 32.315451,-103.796570	X: 613304	Y: 3576049
	fic Conditions	Value	Unit
	Depth to Groundwater (nearest reference)	>100	feet
		2,541	feet
1	Distance between release and nearest DTGW reference	0.48	miles
	Date of nearest DTGW reference measurement		1.25.24
	Within 300 feet of any continuously flowing watercourse		
2	or any other significant watercourse	5,650	feet
	Within 200 feet of any lakebed, sinkhole or playa lake		
3	(measured from the ordinary high-water mark)	6,891	feet
	Within 300 feet from an occupied residence, school,		
4	hospital, institution or church	5,429	feet
	i) Within 500 feet of a spring or a private, domestic fresh		
	water well used by less than five households for	5,246	feet
5	domestic or stock watering purposes, or	5,240	icet
5			
	ii) Within 1000 feet of any fresh water well or spring	5,246	feet
	Within incorporated municipal boundaries or within a		
	defined municipal fresh water field covered under a		
6	municipal ordinance adopted pursuant to Section 3-27-3	No	(Y/N)
	NMSA 1978 as amended, unless the municipality		() ,
	specifically approves		
7	Within 300 feet of a wetland	6,386	feet
	Within the area overlying a subsurface mine	No	(Y/N)
8	Distance between release and nearest registered mine	9,562	feet
			Critical
			High
9	Within an unstable area (Karst Map)	Low	Medium
			Low
	Distance between release and nearest High Karst	10,109	feet
	Within a 100-year Floodplain	>500	year
10	Distance between release and nearest FEMA Zone A (100	1	
	year Floodplain)	36,298	feet
11	Soil Type	Fine sand,	, fine sandy loam
12	Ecological Classification	De	eep Sand
13	Geology	Eolian and p	piedmont deposits
			<50'
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	51-100'
		2100	51 100

North Pure Gold 8 Fed 11 - 0.48 miles away from DTGW



1/25/2024, 8:42:03 AM



Brenda Almanza This is an unofficial map from the OSE's online application.



New Mexico Office of the State Engineer **Point of Diversion Summary**

		• •				E 3=SW largest	/ 4=SE))	(NAD83 UT	M in meters)	
Well Tag PO	D Number	Q64	Q16	Q4	Sec	Tws	Rng	Х	Y	
NA C	04776 POD1	3	3	3	09	23S	31E	613953	3575651 🧧)
Driller License:	1833	Drille	: Con	npar	ıy:	VIS	SION RE	ESOURCES,	INC	
Driller Name:	JASON MALEY									
Drill Start Date	12/13/2023	Drill F	inish	Dat	te:	1	2/13/202	23 Plu	g Date:	12/18/2023
Log File Date:	01/12/2024	PCW	Rcv I	Date	:			Sou	irce:	
Pump Type:		Pipe D	lischa	arge	Size:			Est	imated Yield	:
Casing Size:	2.00	Depth	Well	:				De	oth Water:	105 feet

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.

1/25/24 8:42 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer Water Column/Average Depth to Water

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<u>C 02492</u>		CUB	ED	4	4	4	06	23S	31E	612056	3577320* 🌍	1781	135	85	50
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WATER COLUMN/ AVERAGE DEPTH TO WATER



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U.S. Fish and Wildlife Service **National Wetlands Inventory**

NPG 8 Fed 011, Intermittent 5650 ft





July 28, 2021

Wetlands

- Estuarine and Marine Wetland

Estuarine and Marine Deepwater

- 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.

> National Wetlands Inventory (NWI) This page was produced by the NWI mapper



Released to Imaging: 6/9/2025 2:25:32 PM

U.S. Fish and Wildlife Service **National Wetlands Inventory**

NPG 8 Fed 011, Pond 6891 ft



July 28, 2021

Wetlands

- Estuarine and Marine Wetland

Estuarine and Marine Deepwater

Freshwater Pond

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Lake Other Riverine

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> National Wetlands Inventory (NWI) This page was produced by the NWI mapper



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POINT OF DIVERSION SUMMARY

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WATER RIGHT SUMMARY

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New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

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U.S. Fish and Wildlife Service **National Wetlands Inventory**

NPG 8 Fed 011, Wetland 6386 ft



July 28, 2021

Wetlands

- Estuarine and Marine Wetland

Estuarine and Marine Deepwater

Freshwater Pond

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Lake Other Riverine

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Received by OCD: 5/14/2025 2:04:25 PM

North Pure Gold 9 Federal #001 - 34,074 feet from mine



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



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Page 213 of 248

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Google Earth

Imagery Date: 11/2/2017 32°20'26.35" N 103°49'27.44" W elev 1010 m eye alt 7.24 km Ġ

Received by OCD: 5/14/2025 2:04:25 PM National Flood Hazard Layer FIRMette



Legend

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

Page 215 of 248



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USDA United States Department of Agriculture

> 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


Preface

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

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

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

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

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

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

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Contents

Preface	
Soil Map	
Soil Map	
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Map Unit Legend	
Map Unit Descriptions	
Ėddy Area, New Mexico	
KM—Kermit-Berino fine sands, 0 to 3 percent slopes	
References	

Soil Map

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







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Μ	AP LEGEND	MAP INFORMATION
Area of Interest (AOI) Area of Interest (OI) Stony Spot	The soil surveys that comprise your AOI were mapped at 1:20,000.
Soils Soil Map Unit Pol Special Point Features Blowout Borrow Pit Clay Spot Closed Depression Gravelly Spot Closed Depression Clay Spot Closed Depression Landfill Lava Flow Lava Flow Marsh or swamp Mine or Quarry Miscellaneous W Perennial Water Kock Outcrop	Argons version story spot very Story Story Spot very Story Sto	 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.
 Saline Spot Sandy Spot Severely Eroded Sinkhole Slide or Slip 	Spot	Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020
ø Sodic Spot		The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
КМ	Kermit-Berino fine sands, 0 to 3 percent slopes	2.2	100.0%
Totals for Area of Interest		2.2	100.0%

Map Unit Descriptions

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

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

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

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

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

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

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

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

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

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

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

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

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: Alluvial fans, plains Landform position (three-dimensional): Rise, talf Down-slope shape: Linear, convex 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 capacity: Low (about 3.1 inches)

Interpretive groups

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

Description of Berino

Setting

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

Custom Soil Resource Report

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

Typical profile

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

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
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 capacity: Moderate (about 7.2 inches)

Interpretive groups

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

Minor Components

Active dune land

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

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USDA Natural Resources Conservation Service

Ecological site R042XC005NM Deep Sand

Accessed: 07/28/2021

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

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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)

MLRA-42, SD-3, Deep Sand



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

1.b Brush control, Prescribed grazing

Figure 4.

State 1

Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

State Containing Historic Plant Community

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

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

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

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

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

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 5. Annual production by plant type

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	Мау	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	Sporobolus contractus	450–585	_
	sand dropseed	SPCR	Sporobolus cryptandrus	450–585	_
	mesa dropseed	SPFL2	Sporobolus flexuosus	450–585	_
	giant dropseed	SPGI	Sporobolus giganteus	450–585	_
2	Warm Season			65–104	
	sand bluestem	ANHA	Andropogon hallii	65–104	_
	little bluestem	SCSC	Schizachyrium scoparium	65–104	_
3	Warm Season	39–91			
	threeawn	ARIST	Aristida	39–91	_
4	Warm Season			13–39	
	thin paspalum	PASE5	Paspalum setaceum	13–39	_
5	Warm Season			13–39	
	black grama	BOER4	Bouteloua eriopoda	13–39	_
6	Warm Season	13–39			
	mat sandbur	CELO3	Cenchrus longispinus	13–39	-
7	Warm Season	13–39			
	Havard's panicgrass	PAHA2	Panicum havardii	13–39	-
8	Warm Season	13–65			
	plains bristlegrass	SEVU2	Setaria vulpiseta	13–65	-
9	Other Annual Grasses			13–65	
	Grass, annual	2GA	Grass, annual	13–65	_
Shrub	Vine				
10	Shrub			65–130	
	Havard oak	QUHA3	Quercus havardii	65–130	_
11	Shrub			13–39	

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	sand sagebrush	ARFI2	Artemisia filifolia	13–39	_
12	Shrub		·	65–130	
	уисса	YUCCA	Yucca	65–130	_
13	Shrub		·	13–39	
	rabbitbrush	CHRYS9	Chrysothamnus	13–39	-
14	Other Shrubs	-	•	13–39	
	Shrub (>.5m)	2SHRUB	Shrub (>.5m)	13–39	_
Forb		-			
15	Forb			39–91	
	croton	CROTO	Croton	39–91	-
	Indian blanket	GAPU	Gaillardia pulchella	39–91	-
16	Forb	39–91			
	aster	ASTER	Aster	39–91	-
	whitest evening primrose	OEAL	Oenothera albicaulis	39–91	-
	beardtongue	PENST	Penstemon	39–91	-
17	Forb			39–91	
	touristplant	DIWI2	Dimorphocarpa wislizeni	39–91	-
	buckwheat	ERIOG	Eriogonum	39–91	-
	sunflower	HELIA3	Helianthus	39–91	-
	spiny false fiddleleaf	HYSP	Hydrolea spinosa	39–91	-
	threadleaf ragwort	SEFLF	Senecio flaccidus var. flaccidus	39–91	
18	Other Forbs			13–65	
	Forb (herbaceous, not grass nor grass-like)	2FORB	Forb (herbaceous, not grass nor grass-like)	13–65	_

Animal community

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

Hydrological functions

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

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

Recreational uses

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

Wood products

This site has no potential for wood products.

Other products

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

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM 100 - 76 2.0 - 3.8 75 - 51 3.0 - 6.0 50 - 26 5.0 - 10.0 25 - 0 10.1 +

Inventory data references

Other References:

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

Other references

Literature Cited

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

Contributors

Don Sylvester Quinn Hodgson

Rangeland health reference sheet

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

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

Indicators

- 1. Number and extent of rills:
- 2. Presence of water flow patterns:
- 3. Number and height of erosional pedestals or terracettes:
- 4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):
- 5. Number of gullies and erosion associated with gullies:
- 6. Extent of wind scoured, blowouts and/or depositional areas:
- 7. Amount of litter movement (describe size and distance expected to travel):
- 8. Soil surface (top few mm) resistance to erosion (stability values are averages most sites will show a range of values):
- 9. Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):
- 10. Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:

- 11. Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):
- 12. Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):

Dominant:

Sub-dominant:

Other:

Additional:

- 13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):
- 14. Average percent litter cover (%) and depth (in):
- 15. Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annualproduction):
- 16. Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:
- 17. Perennial plant reproductive capability:

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ArcGIS Web Map



ArcGIS Web AppBuilder

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

AE AH

AO County

Ruler

Path

Measure	the	distance	hetween	two	points on	the around	

Polygon

Map Length:	36,298.21 Feet
Ground Length:	36,305.26
Heading:	278.78 degrees

✔ Mouse Navigation

Save Clear

Circle 3D path 3D polygon

Official Scenic Historic Marker Project Gnome

North Pure Gold 8 Federal #011

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Google Earth

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1.1

Imagery Date: 11/2/2017 32°19'42.28" N 103°49'37.48" W elev 1003 m eye alt 21.88 km 📥

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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

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QUESTIONS

Action 460703

QUESTIONS

Operator:	OGRID:		
HARVARD PETROLEUM COMPANY, LLC	10155		
P.O. Box 936	Action Number:		
Roswell, NM 88202	460703		
	Action Type:		
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)		

QUESTIONS

Prerequisites			
Incident ID (n#)	nAB1727057447		
Incident Name	NAB1727057447 NORTH PURE GOLD 8 FEDERAL #011 @ 30-015-32619		
Incident Type	Produced Water Release		
Incident Status	Remediation Plan Received		
Incident Well	[30-015-32619] NORTH PURE GOLD 8 FEDERAL #011		
A			

Location of Release Source

Data Dalaasa Disaayaaad	00/10/00/17				
Site Name	NORTH PURE GOLD 8 FEDERAL #011				
Please answer all the questions in this group.					

	NORTH ORE COLD OF EDERAL #OTT		
Date Release Discovered	09/12/2017		
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: Equipment Failure Fitting Produced Water Released: 5 BBL Recovered: 2 BBL Lost: 3 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.	

General Information Phone: (505) 629-6116

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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

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QUESTIONS, Page 2

Action 460703

QUESTIONS (continued)	
Operator:	OGRID:
HARVARD PETROLEUM COMPANY, LLC	10155
P.O. Box 936	Action Number:
Roswell, NM 88202	460703
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No	
Reasons why this would be considered a submission for a notification of a major release	Unavailable.	
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	
	Not answered. ation 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: 05/11/2025	

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

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QUESTIONS, Page 3

Action 460703

OUESTIONS	(continued)
QUESTIONS	(continuea)

Operator:	OGRID:	
HARVARD PETROLEUM COMPANY, LLC	10155	
P.O. Box 936	Action Number:	
Roswell, NM 88202	460703	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 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 an	d 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 ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	16600	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3490	
GRO+DRO (EPA SW-846 Method 8015M)	890	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	05/12/2025	
On what date will (or did) the final sampling or liner inspection occur	07/14/2025	
On what date will (or was) the remediation complete(d)	07/14/2025	
What is the estimated surface area (in square feet) that will be reclaimed	36918	
What is the estimated volume (in cubic yards) that will be reclaimed	6300	
What is the estimated surface area (in square feet) that will be remediated	198	
What is the estimated volume (in cubic yards) that will be remediated 22		
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTI	ONS (continued)	
Operator:	OGRID:	
HARVARD PETROLEUM COMPANY, LLC	10155	
P.O. Box 936	Action Number:	
Roswell, NM 88202	460703	
	Action Type: [C 111] Site Cher (Remediction Plan C 111 (C 111 v Plan)	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		
Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the		
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:	
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [fJEG1635837366]	
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.	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC	
the second se		
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	cnowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
	Name: Roni Kidd Title: Business Manager	
I hereby agree and sign off to the above statement	Email: rkidd@buckhornproduction.com	
	Deter 05/44/0005	

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.

Date: 05/11/2025

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QUESTIONS, Page 4

Action 460703

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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

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QUESTIONS, Page 5

Action 460703

QUESTIONS (continued)	
Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 460703
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
	•

QUESTIONS

Deferral Requests Only	
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.
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο

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QUESTIONS (continued)					
Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155 Action Number: 460703				
QUESTIONS	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)				
Sampling Event Information					
Last sampling notification (C-141N) recorded	{Unavailable.}				

Remediation Closure Request

nly 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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QUESTIONS, Page 6

Action 460703

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CONDITIONS

Action 460703

CONDITIONS					
Operator:	OGRID:				
HARVARD PETROLEUM COMPANY, LLC	10155				
P.O. Box 936	Action Number:				
Roswell, NM 88202	460703				
	Action Type:				
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)				

CONDITIONS

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Please, make sure sidewall samples are taken up against the edge of the tank battery to ensure fluids didn't go under the tank battery. The release area will need confirmation samples representing no more than 200 ft2. All off-pad areas must meet reclamation standards in the OCD Spill Rule. The work will need to be completed in 90 days after the report has been reviewed.	6/9/2025