VIA ELECTRONIC MAIL –

September 21, 2023

Jake Janicek
EH&S Specialist
Caerus Piceance LLC
143 Diamond Avenue
Parachute, Colorado 81635

Subject: **Report of Work Completed**
Dumpline Release H7
Mamm Creek Field
Garfield County, Colorado

Dear Mr. Janicek:

WSP USA Inc. (WSP), on behalf of Caerus Piceance LLC (Caerus), performed contractor oversight and characterization soil sampling of the land farmed soil stockpile associated with the production well KRK 7-7A dumpline release at the H7 pad location (Facility ID: 480751) (Site). This document serves as a report of work completed (ROWC) which details the recent landfarm confirmation soil sampling activities completed in the third quarter of 2023. All previous investigative activities can be referenced under Remediation Project Number 20584. The Site is located in the Caerus Mamm Creek area of operation in Garfield County, Colorado (Figure 1).

LANDFARM STOCKPILE SOIL SAMPLING – H7 DUMPLINE RELEASE

On July 21, 2023, WSP personnel conducted additional characterization sampling of the land farmed soil stockpile at the Site of the cell representative of STOCK02. Prior to sampling activities, the landfarm footprint representative of landfarm cell STOCK02 was mapped and delineated for sampling purposes. The mapped cell was representative of 500 cubic yards of soil in accordance with the approved landfarm sampling plan in Document Numbers (DNs) 403023769 and 403024689. Once mapped and delineated, the landfarm cell was turned using an excavator operated by Western Colorado Oil Field Services, Inc. (WCO) to help expel the remaining volatiles in the soil. Once turned, a WSP geologist collected one 5-point aliquot confirmation soil sample from the one cell (STOCK-02) of the landfarm site. Each aliquot sample was collected using a shovel at approximately half the thickness of the stockpile cell (at a depth of approximately 2 feet). All field sampling equipment was decontaminated with a Liquinox® water rinse prior to sampling and between each aliquot sample collection.

On August 7, 2023 WSP personnel returned to conduct additional characterization sampling of the land farmed soil stockpile at the Site of the cell representative of STOCK02. Prior to sampling the cell representative of STOCK02 was again turned using an excavator operated by WCO to continue to expel the remaining volatiles in the soil at a faster rate. Once the cell was turned a WSP geologist collected an additional 5-point aliquot confirmation soil sample from the cell of the landfarm site sampled on July 21, 2023 (STOCK-02). Each aliquot sample was collected using a shovel at approximately half the thickness of the stockpile cell (at a depth of approximately 2 feet). All field sampling equipment was decontaminated with Liquinox® water rinse prior to sampling and between each aliquot sample collection.

Field soil screening and characterization soil sampling activities were performed by a WSP geologist who inspected the soils for the presence or absence of petroleum hydrocarbon odor and/or staining. The soils were characterized by visually inspecting the soil and field screening the soil head space using a photoionization detector (PID) to monitor

for the presence or absence of volatile organic compounds (VOCs). Field screening results and observations are summarized in the tables below.

Field Soil Screening Results – July 21, 2023

Sample ID	PID (ppm)	Notes	Submitted for Analysis
20230721-H7-(STOCK02)	1078	Odor and Staining	Reduced Suite

Key:
PID – photoionization detector
ppm – parts per million

Field Soil Screening Results – August 7, 2023

Sample ID	PID (ppm)	Notes	Submitted for Analysis
20230807-H7-(STOCK02)	404.2	Odor and No Staining	Reduced Suite – TPH only

Key:
PID – photoionization detector
ppm – parts per million
TPH-total petroleum hydrocarbons

All landfarm soil samples were submitted to Pace Analytical of Mount Juliet, Tennessee for analysis. Landfarm soil sample 20230721-H7-(STOCK02) was submitted under a previously approved reduced suite by the Director (DN 403104348) which included total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and total xylenes (BTEX), 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene. Landfarm soil sample 20230807-H7-(STOCK02) was submitted under previously approved suite by the Director (DN 403462174) which included only TPH. The approved analyte list was evaluated under the COGCC Table 915-1 Residential Soil Screening Level Concentrations (RSSLCs) as approved under the DN 402898845. A photolog of the landfarm sampling activities is included in Enclosure A. The landfarm footprint and cell extents are depicted on Figure 2. A photographic log of the landfarm stockpile confirmation sampling is included in Enclosure B.

ANALYTICAL RESULTS – H7 DUMPLINE RELEASE

Laboratory analytical results of the stockpile confirmation soil sample collected from the landfarm cell on July 21, 2023, indicates the aliquot confirmation soil sample 20230721-H7-(STOCK02) exceeded the COGCC Table 915-1 Cleanup Concentrations (CCs) for TPH with a concentration of 523.7 milligrams per kilogram (mg/kg). The analytical exceedance is summarized in the table below. The remaining analytes were below the laboratory method detection limit (MDL), within the COGCC Table 915-1 RSSLCs or within the COGCC Table 915-1 CCs.

Summary of Landfarm Confirmation Soil Analytical Exceedance – July 21, 2023

Sample ID	COGCC Table 915-1 Contaminant of Concern	Units	COGCC Cleanup Concentrations	Confirmation Soil Sample Concentration
20230721-H7-(STOCK02)	TPH	mg/kg	500	**523.7**

Key:
TPH – total petroleum hydrocarbons
mg/kg – milligrams per kilogram

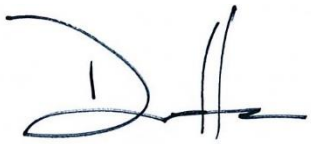
Laboratory analytical results of the landfarm stockpile soil sample collected on August 7, 2023, is within the Table 915-1 CCs for TPH with a reported concentration of 259.2 mg/kg. The landfarm stockpile laboratory analytical results are summarized in Table 1. The laboratory analytical reports are included in Enclosure B. The laboratory analytical results of the stockpile confirmation soil samples collected are depicted in the attached Figure 3.

CONCLUSIONS – H7 DUMPLINE RELEASE

Based on the confirmation soil sample results from the landfarm stockpile cell STOCK02 collected on July 21 and August 7, 2023, WSP recommends that Caerus request the Director to use the non-impacted (remediated) stockpiled soil to backfill the excavation at the Site. Once the land farmed soil is removed and used to backfill the open excavation, the surface area beneath the former landfarm footprint should be sampled to ensure the stockpile did not impact the soil surface. Although the Condition of Approval (COA) in DN 402955802 states that one composite soil sample will be collected for every 500 square feet of surface beneath the former landfarm footprint, WSP recommends using a modified approach to sampling the landfarm footprint. WSP proposes collecting six discrete confirmation soil samples within and along the landfarm footprint (Figure 4). Additionally, DN 402955802 indicates all landfarm closure confirmation soil samples will be submitted for COGCC Table 915-1. WSP recommends that Caerus request that all landfarm closure confirmation soil samples be submitted under the previously approved suite in DN 403104348 which includes the analysis of TPH, BTEX, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene as these are the main contaminants of concern associated with the project. All landfarm closure soil samples will be compared to Table 915-1 RSSLCs per DN 402898845.

Please contact us at (970) 618-4514 or (970) 658-7025 if you have any questions regarding this report or require additional information.

Kind regards,



Dustin Held
Sr. Consultant, Environmental Geologist

Parker Coit, P.G.
Lead Consultant, Geologist

Encl.

FIGURES

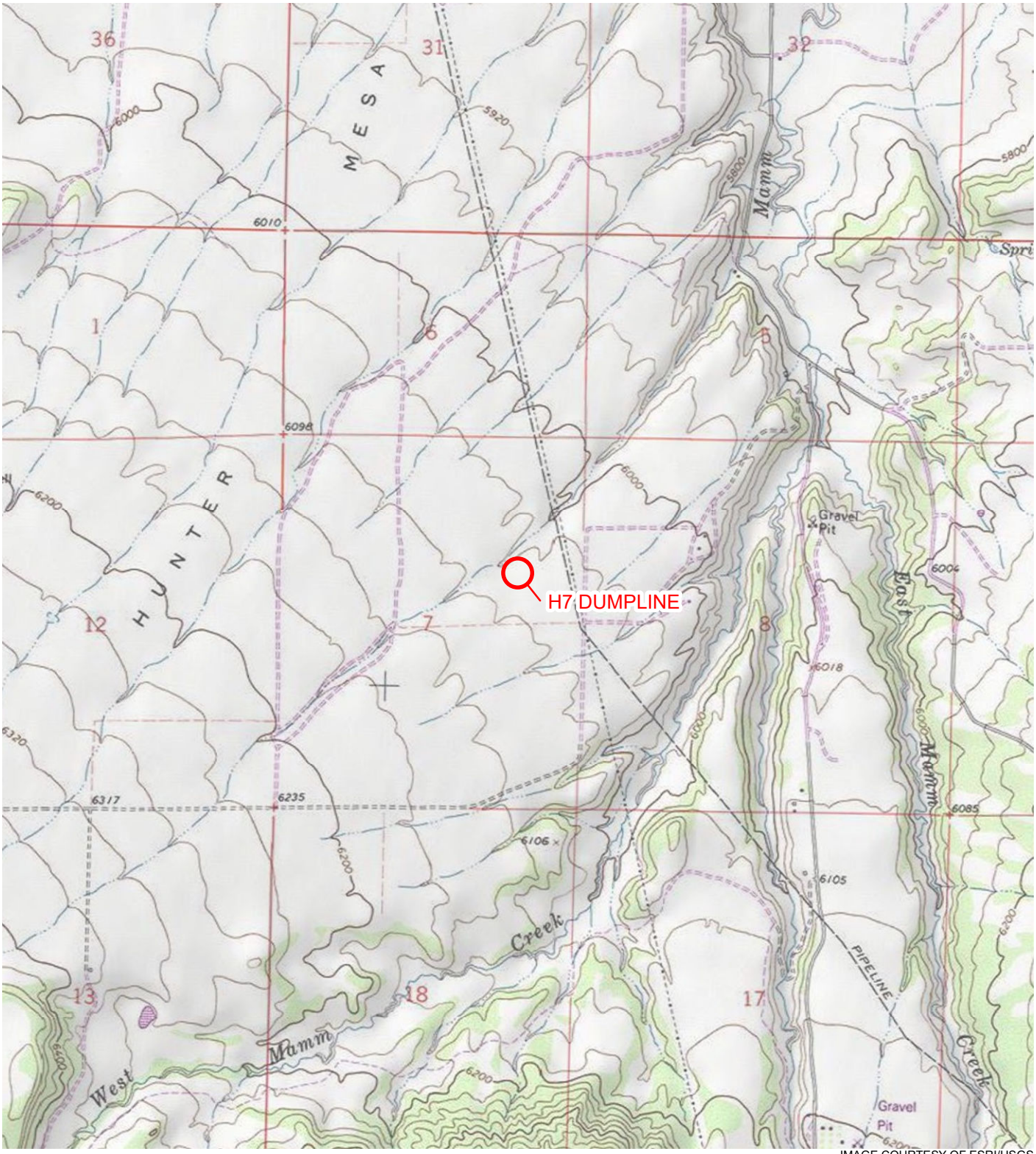


IMAGE COURTESY OF ESRI/USGS

LEGEND

SITE LOCATION

0 2,000 4,000

Feet

N

COLORADO

FIGURE 1
SITE LOCATION MAP
H7 DUMPLINE
SENE SEC 7-T7S-R92W
GARFIELD COUNTY, COLORADO
CAERUS PICEANCE LLC

wsp

C:\Users\USTJ689650\OneDrive - WSP O365\CAERUS\31403501.013_H7 DUMPLINE\MXD\31403501.013_FIG01_SL.mxd

LEGEND

- ALIQUOT LANDFARM SOIL SAMPLE
- EXCAVATION BENCH
- DESIGNED EXCAVATION EXTENT CLASS B SOILS
- APPROXIMATE 500 CUBIC YARDS SAMPLING AREA
- LANDFARM AREA
- CLEAN STOCKPILE

BACKGROUND IMAGE COURTESY OF ESRI (MAXAR 2018)
FOREGROUND IMAGE COURTESY OF WSP DRONE SURVEY JULY 5, 2023

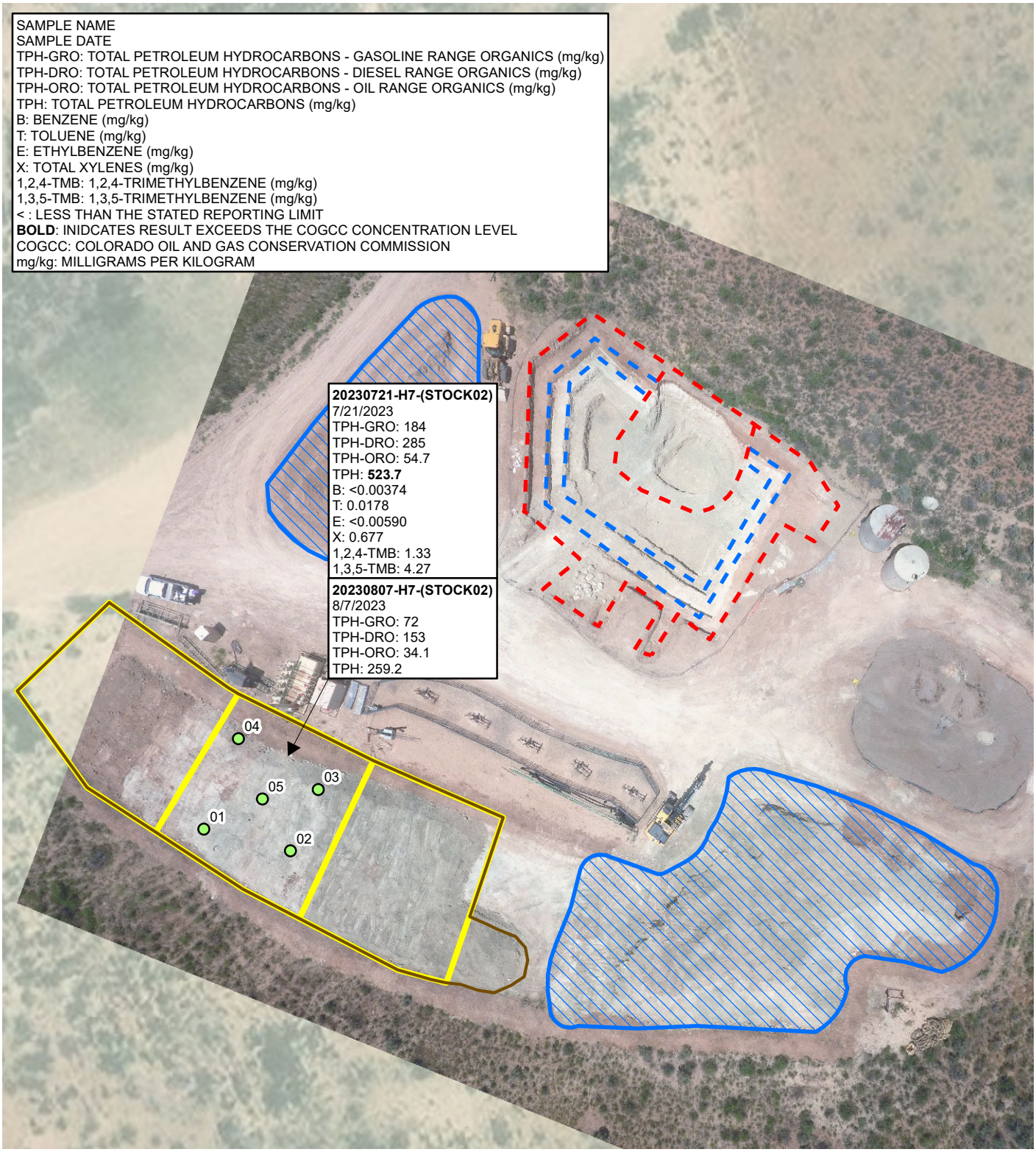
0 50 100
Feet

N

FIGURE 2
LANDFARM SAMPLE LOCATION MAP
H7 DUMPLINE
SENE SEC 7-T7S-R92W
GARFIELD COUNTY, COLORADO
CAERUS PICEANCE LLC

wsp

\\corp.pbwan.net\us\CentralData\DCCLDA00\Standard\gis\CaerusPiceanceLLC\H7_Dumpline\Maps\MXDs\Report\2023\FIG02_LANDFARM_SAMPLE_LOC_AUG_2023.mxd



LEGEND

- ALIQUOT LANDFARM SOIL SAMPLE
- EXCAVATION BENCH
- DESIGNED EXCAVATION EXTENT CLASS B SOILS
- APPROXIMATE 500 CUBIC YARDS SAMPLING AREA
- LANDFARM AREA
- CLEAN STOCKPILE

BACKGROUND IMAGE COURTESY OF ESRI (MAXAR 2018)
FOREGROUND IMAGE COURTESY OF WSP DRONE SURVEY JULY 5, 2023

0 50 100
Feet

N

FIGURE 3
LANDFARM SOIL ANALYTICAL RESULTS MAP
H7 DUMPLINE
SENE SEC 7-T7S-R92W
GARFIELD COUNTY, COLORADO
CAERUS PICEANCE LLC

\\corp.pbwan.net\us\CentralData\DCCLDA00\Standard\gis\CaerusPiceanceLLC\H7_Dumpline\Maps\MXDs\Report\2023\FIG03_LANDFARM_SAMPLE_ANALY_AUG_2023.mxd

LEGEND

- EXCAVATION BENCH
- DESIGNED EXCAVATION EXTENT CLASS B SOILS
- LANDFARM AREA (SIX DISCRETE CONFIRMATION SOIL SAMPLES WILL BE COLLECTED WITHIN AND ALONG THE ENTIRE LANDFARM FOOTPRINT)
- CLEAN STOCKPILE

BACKGROUND IMAGE COURTESY OF ESRI (MAXAR 2018)
FOREGROUND IMAGE COURTESY OF WSP DRONE SURVEY JULY 5, 2023

0 50 100
Feet

N

FIGURE 4
LANDFARM CLOSURE LOCATION MAP
H7 DUMPLINE
SENE SEC 7-T7S-R92W
GARFIELD COUNTY, COLORADO
CAERUS PICEANCE LLC

wsp

\\corp.pbwan.net\us\CentralData\DCCLDA00\Standard\gis\CaerusPiceanceLLC\H7_Dumpline\Maps\MXDs\Report\2023\FIG04_LANDFARM_CLOSURE_2023.mxd

TABLE

TABLE 1

LANDFARM SOIL ANALYTICAL RESULTS
H7 DUMPLINE
GARFIELD COUNTY, COLORADO
CAERUS PICEANCE LLC

PARAMETER	COGCC RESIDENTIAL SOIL SCREENING LEVEL CONCENTRATIONS	COGCC PROTECTION OF GROUNDWATER SOIL SCREENING LEVEL CONCENTRATIONS	UNITS	CONFIRMATION SOIL SAMPLE					
				20230701-H7-(STOCK01)	20230701-H7-(STOCK02)	20230721-H7-(STOCK02)	20230807-H7-(STOCK02)	20230701-H7-(STOCK03)	20230701-H7-(STOCK04)
Sample Date				7/1/2023	7/1/2023	7/21/2023	8/7/2023	7/1/2023	7/1/2023
Sample Depth (feet)				2	2	2	2	2	2
Sample Type				Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation
Arsenic	0.68	0.29 (M)	mg/kg	NA	NA	NA	NA	NA	NA
Barium	15,000	82 (M)	mg/kg	NA	NA	NA	NA	NA	NA
Boron	2	2	mg/l	NA	NA	NA	NA	NA	NA
Cadmium	71	0.38 (M)	mg/kg	NA	NA	NA	NA	NA	NA
Chromium (VI)	0.3	0.00067 (R)	mg/kg	NA	NA	NA	NA	NA	NA
Copper	3,100	46 (M)	mg/kg	NA	NA	NA	NA	NA	NA
Lead	400	14 (M)	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	1,500	26 (R)	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	390	0.26 (M)	mg/kg	NA	NA	NA	NA	NA	NA
Silver	390	0.8 (R)	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	23,000	370 (R)	mg/kg	NA	NA	NA	NA	NA	NA
EC	<4	<4	mmhos/cm	NA	NA	NA	NA	NA	NA
pH	6 - 8.3	6 - 8.3	SU	NA	NA	NA	NA	NA	NA
SAR	<6	<6	unitless	NA	NA	NA	NA	NA	NA
TPH-GRO			mg/kg	262	169	184	72	157	2.06
TPH-DRO			mg/kg	45.7	320	285	153	162	11.3
TPH-ORO			mg/kg	2.18	70.0	54.7	34.1	31.6	13.6
TPH	500	500	mg/kg	309.9	**559.0**	**523.7**	259.2	350.6	26.96
Benzene	1.2	0.0026 (M)	mg/kg	<0.000467	<0.00374	<0.00374	NA	<0.00374	0.000965
Toluene	490	0.69 (M)	mg/kg	<0.00130	<0.0104	0.0178	NA	<0.0104	0.0229
Ethylbenzene	5.8	0.78 (M)	mg/kg	0.000767	<0.00590	<0.00590	NA	<0.00590	0.0267
Total Xylenes	58	9.9 (M)	mg/kg	2.19	0.534	0.677	NA	0.952	0.0875
1,2,4-trimethylbenzene	30	0.0081 (R)	mg/kg	2.31	0.595	1.33	NA	0.806	0.435
1,3,5-trimethylbenzene	27	0.0087 (R)	mg/kg	4.89	2.33	4.27	NA	0.842	0.480
Acenaphthene	360	5.8 (R)	mg/kg	NA	NA	NA	NA	NA	NA
Anthracene	1,800	0.55 (R)	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(A)anthracene	1.1	0.011 (R)	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(B)fluoranthene	1.1	0.3 (R)	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(K)fluoranthene	11	2.9 (R)	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(A)pyrene	0.11	0.24 (M)	mg/kg	NA	NA	NA	NA	NA	NA
Chrysene	110	9 (R)	mg/kg	NA	NA	NA	NA	NA	NA
Dibenzo(A,H)anthracene	0.11	0.11 (R)	mg/kg	NA	NA	NA	NA	NA	NA
Fluoranthene	240	0.096 (R)	mg/kg	NA	NA	NA	NA	NA	NA
Fluorene	240	0.54 (R)	mg/kg	NA	NA	NA	NA	NA	NA
Indeno(1,2,3,c-d)pyrene	1.1	0.98 (R)	mg/kg	NA	NA	NA	NA	NA	NA
1-methylnaphthalene	18	0.006 (R)	mg/kg	NA	NA	NA	NA	NA	NA
2-methylnaphthalene	24	0.019 (R)	mg/kg	NA	NA	NA	NA	NA	NA
Naphthalene	2	0.0038 (R)	mg/kg	NA	NA	NA	NA	NA	NA
Pyrene	180	1.3 (R)	mg/kg	NA	NA	NA	NA	NA	NA

NOTES:
ND - less than the stated reporting limit
BOLD - indicates result exceeds the COGCC concentration level
COGCC - Colorado Oil and Gas Conservation Commission
EC- electrical conductivity
mg/kg - milligrams per kilogram
mg/l - milligrams per liter
mmhos/cm - millimhos per centimeter
SAR - sodium adsorption ratio
SU - standard unit
TPH-ORO - total petroleum hydrocarbons- oil range organics
TPH-GRO - total petroleum hydrocarbons-gasoline range organics
TPH-DRO - total petroleum hydrocarbons-diesel range organics
TPH - combination of TPH-GRO, TPH-DRO, and TPH-ORO
NA - analyte not analyzed
ND - analyte not detected
R - risk based
MCL - maximum containment level (M)
M - based MCL

ENCLOSURE A – PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
Caerus Piceance LLC	**H7 Dumpline**	**31403501.013**

Photo No.	**Date**
1	July 21, 2023

Landfarm footprint overview;
View east

Photo No.	**Date**
2	July 21, 2023

STOCK-02 marked with spray paint and flags;
View northwest

PHOTOGRAPHIC LOG		
Caerus Piceance LLC	**H7 Dumpline**	**31403501.013**

Photo No.	**Date**
3	July 21, 2023

STOCK-02 cell being mixed thoroughly prior to sampling; View south

PHOTOGRAPHIC LOG		
Caerus Piceance LLC	**H7 Dumpline**	**31403501.013**

Photo No.	**Date**
1	August 5, 2023

Stock02 overview post flagging; View east

Photo No.	**Date**
2	August 5, 2023

Lanfarm excavation overview; View southeast

PHOTOGRAPHIC LOG		
Caerus Piceance LLC	**H7 Dumpline**	**31403501.013**

Photo No.	**Date**
3	August 5, 2023

Lanfarm excavation overview;
View northwest

Photo No.	**Date**
4	August 7, 2023

Lanfarm excavation overview;
View northeast

PHOTOGRAPHIC LOG		
Caerus Piceance LLC	**H7 Dumpline**	**31403501.013**

Photo No.	**Date**
5	August 7, 2023

STOCK02 aliquot sample collection [20230807-H7-(STOCK02)]; View southeast

Photo No.	**Date**
6	August 7, 2023

STOCK02 aliquot sample collection [20230807-H7-(STOCK02)]; View southeast

PHOTOGRAPHIC LOG		
Caerus Piceance LLC	**H7 Dumpline**	**31403501.013**

Photo No.	**Date**
7	August 7, 2023

STOCK02 aliquot sample collection [20230807-H7-(STOCK02)]

ENCLOSURE B – LABORATORY ANALYTICAL REPORTS

ANALYTICAL REPORT

August 03, 2023

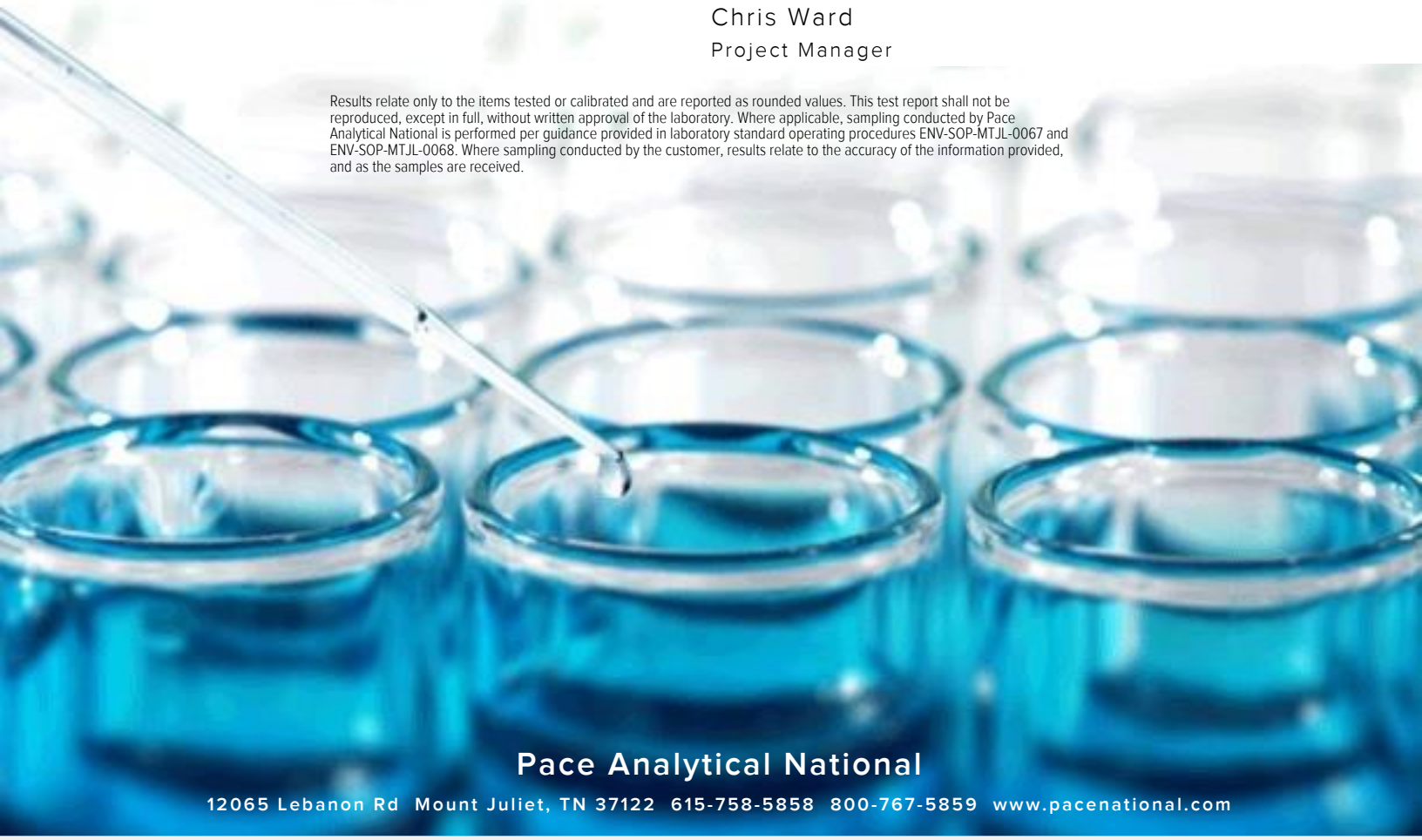
Caerus Oil and Gas

Sample Delivery Group:	L1639200
Samples Received:	07/26/2023
Project Number:	H7
Description:	H7-Dumpline
Site:	H7
Report To:	Blair Rollins 143 Diamond Avenue Parachute, CO 81635

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SAMPLE SUMMARY

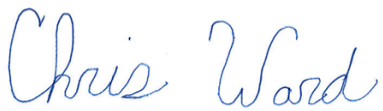
20230721-H7-(STOCK02) L1639200-01 Solid

Collected by: Ben Herrmann
Collected date/time: 07/21/23 14:25
Received date/time: 07/26/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2104027	1000	07/28/23 08:37	07/29/23 20:26	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2106556	8	07/28/23 08:37	08/02/23 19:39	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2103927	5	07/30/23 06:56	07/30/23 17:27	JSS	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward
Project Manager

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	184	B	21.7	100	1000	07/29/2023 20:26	WG2104027
(S) a,a,a-Trifluorotoluene(FID)	*97.4*			*77.0-120*		*07/29/2023 20:26*	WG2104027

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.00374	0.00800	8	08/02/2023 19:39	WG2106556
Toluene	0.0178	J	0.0104	0.0400	8	08/02/2023 19:39	WG2106556
Ethylbenzene	U		0.00590	0.0200	8	08/02/2023 19:39	WG2106556
Xylenes, Total	0.677		0.00704	0.0520	8	08/02/2023 19:39	WG2106556
1,2,4-Trimethylbenzene	1.33		0.0126	0.0400	8	08/02/2023 19:39	WG2106556
1,3,5-Trimethylbenzene	4.27		0.0160	0.0400	8	08/02/2023 19:39	WG2106556
(S) Toluene-d8	*105*			*75.0-131*		*08/02/2023 19:39*	WG2106556
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*08/02/2023 19:39*	WG2106556
(S) 1,2-Dichloroethane-d4	*92.6*			*70.0-130*		*08/02/2023 19:39*	WG2106556

Sample Narrative:

L1639200-01 WG2106556: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	285		8.05	20.0	5	07/30/2023 17:27	WG2103927
C28-C36 Motor Oil Range	54.7		1.37	20.0	5	07/30/2023 17:27	WG2103927
(S) o-Terphenyl	*53.4*			*18.0-148*		*07/30/2023 17:27*	WG2103927

Method Blank (MB)

(MB) R3955826-2 07/29/23 11:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.791	J	0.543	2.50
(S) a,a,a-Trifluorotoluene(FID)	*97.1*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3955826-1 07/29/23 10:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.12	111	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*77.0-120*	

L1639200-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1639200-01 07/29/23 20:26 • (MS) R3955826-3 07/29/23 21:11 • (MSD) R3955826-4 07/29/23 21:34

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5500	184	5210	5580	91.4	98.1	1000	10.0-151			6.86	28
(S) a,a,a-Trifluorotoluene(FID)					*102*	*103*		*77.0-120*				

Method Blank (MB)

(MB) R3956262-3 08/02/23 11:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
(S) Toluene-d8	*109*			*75.0-131*
(S) 4-Bromofluorobenzene	*92.5*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*87.6*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3956262-1 08/02/23 09:52 • (LCSD) R3956262-2 08/02/23 10:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.116	0.109	92.8	87.2	70.0-123			6.22	20
Toluene	0.125	0.112	0.109	89.6	87.2	75.0-121			2.71	20
Ethylbenzene	0.125	0.105	0.103	84.0	82.4	74.0-126			1.92	20
Xylenes, Total	0.375	0.296	0.290	78.9	77.3	72.0-127			2.05	20
1,2,4-Trimethylbenzene	0.125	0.0959	0.0927	76.7	74.2	70.0-126			3.39	20
1,3,5-Trimethylbenzene	0.125	0.0972	0.0962	77.8	77.0	73.0-127			1.03	20
(S) Toluene-d8				*105*	*106*	*75.0-131*				
(S) 4-Bromofluorobenzene				*94.2*	*94.3*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*99.2*	*96.2*	*70.0-130*				

Method Blank (MB)

(MB) R3954538-1 07/30/23 14:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	0.283	J	0.274	4.00
(S) o-Terphenyl	*81.8*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3954538-2 07/30/23 14:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	37.2	74.4	50.0-150	
(S) o-Terphenyl			*69.5*	*18.0-148*	

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
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Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
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Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Caerus Oil & Gas LLC
143 Diamond Avenue
Parachute, CO 81635
970-285-9606

Billing Information: Same as above

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: bmiddleton@caerusoilandgas.com

Email To: bmiddleton@caerusoilandgas.com

Project Description: H7-Dumpline

City/State Collected: Mamm Creek, CO

Phone:
Fax:

Client Project #: H7

Lab Project #: H7

Collected by (print): Ben Herrmann

Site/Facility ID #: H7

P.O. #: H7

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed: Standard TAT

L # L1639200

Table #: B167

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPH- GRO,DRO,ORO	BTEX	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene						Remarks	Sample # (lab only)
20230721-H7-(STOCK-02)	Comp	SS	N/A	7/21/2023	14:25	1	X	X	X	X							-01

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other________

Remarks:

pH ______ Temp ______
Flow ______ Other ______

Samples returned via:
__ UPS __ FedEx __ Courier __ ______

Tracking # 6525 5572 0428

Sample Receipt Checklist
COC Seal Present/Intact: _NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
[signature]	7/21/2023	15:35	[signature] 7/25 1130	

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C	Bottles Received:	If preservation required by Login: Date/Time
[signature]	7/25/23	1500		4.0+0=4.0	1	

Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:	Hold:	Condition: NCF / OK
			[signature]	7.26.23	900		OK

ANALYTICAL REPORT

August 16, 2023

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

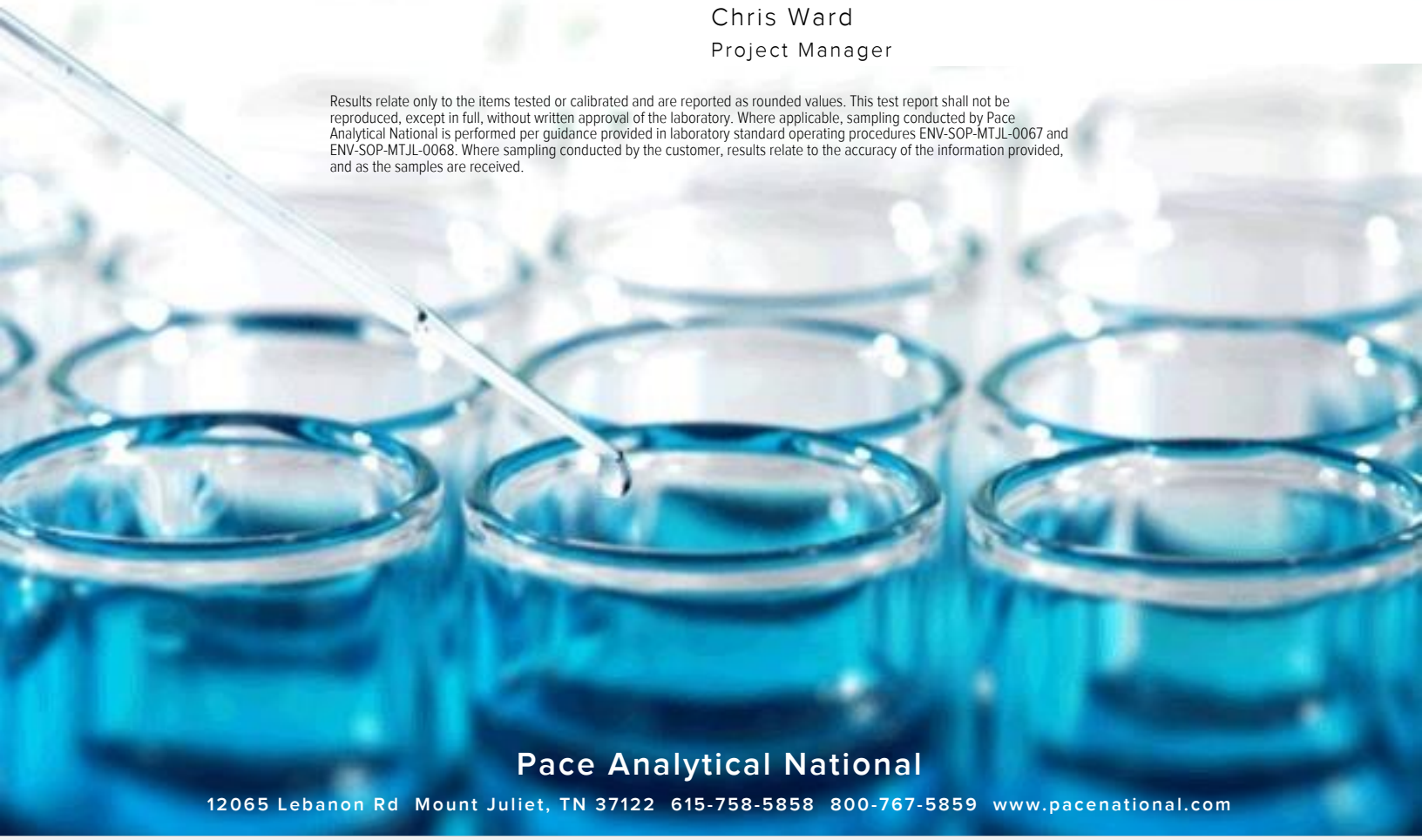
Caerus Oil and Gas

Sample Delivery Group:	L1643623
Samples Received:	08/08/2023
Project Number:	H7
Description:	H7-Dumpline
Site:	H7
Report To:	Blair Rollins 143 Diamond Avenue Parachute, CO 81635

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SAMPLE SUMMARY

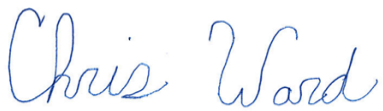
20230807-H7-(STOCK02) L1643623-01 Solid

Collected by: Kate Moreland
Collected date/time: 08/07/23 10:25
Received date/time: 08/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2112080	500	08/10/23 08:35	08/11/23 19:10	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2113391	1	08/15/23 09:13	08/16/23 01:47	ICD	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward
Project Manager

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	72.1	B	10.9	50.0	500	08/11/2023 19:10	WG2112080
(S) a,a,a-Trifluorotoluene(FID)	*93.3*			*77.0-120*		*08/11/2023 19:10*	WG2112080

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	153		1.61	4.00	1	08/16/2023 01:47	WG2113391
C28-C36 Motor Oil Range	34.1		0.274	4.00	1	08/16/2023 01:47	WG2113391
(S) o-Terphenyl	*32.6*			*18.0-148*		*08/16/2023 01:47*	WG2113391

Method Blank (MB)

(MB) R3961397-2 08/11/23 11:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.805	J	0.543	2.50
(S) a,a,a-Trifluorotoluene(FID)	*92.5*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3961397-1 08/11/23 09:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.40	98.2	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*94.5*	*77.0-120*	

L1643623-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1643623-01 08/11/23 19:10 • (MS) R3961397-3 08/11/23 21:26 • (MSD) R3961397-4 08/11/23 21:49

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	2750	72.1	2560	2400	90.5	84.7	500	10.0-151			6.45	28
(S) a,a,a-Trifluorotoluene(FID)					*94.1*	*94.0*		*77.0-120*				

Method Blank (MB)

(MB) R3961198-1 08/15/23 23:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	*71.6*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3961198-2 08/16/23 00:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	37.6	75.2	50.0-150	
(S) o-Terphenyl			*70.7*	*18.0-148*	

L1643634-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1643634-01 08/16/23 01:59 • (MS) R3961198-3 08/16/23 02:11 • (MSD) R3961198-4 08/16/23 02:24

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	49.7	8.43	47.3	50.5	78.2	85.9	1	50.0-150			6.54	20
(S) o-Terphenyl					*50.6*	*56.1*		*18.0-148*				

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Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

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Caerus Oil & Gas LLC
143 Diamond Avenue
Parachute, CO 81635
970-285-9606

Billing Information: **Same as above**

Report to: **bmiddleton@caerusoilandgas.com**

Email To: **bmiddleton@caerusoilandgas.com**

Project Description: **H7-Dumpline**

City/State Collected: **Mamm Creek, CO**

Phone: 949-374-2506
Fax:

Client Project # **H7**

Lab Project # **H7**

Collected by (print): Kate Moreland

Site/Facility ID # **H7**

P.O. # **H7**

Collected by (signature): K. Moreland
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed: **Standard TAT**

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPH-GRO,DRO,ORO	Remarks	Sample # (lab only)
20230807-H7-(STOCK02)	Comp	SS	/	8/7/2023	1025	2	X		-01

Chain of Custody Page 1 of 1

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # 1693623
H244

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: x2 4oz jars

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 6525 5512 0678

Sample Receipt Checklist
COC Seal Present/Intact: Y NP ___ Y ___ N
COC Signed/Accurate: ___ Y ___ N
Bottles arrive intact: ___ Y ___ N
Correct bottles used: ___ Y ___ N
Sufficient volume sent: ___ Y ___ N
If Applicable
VOA Zero Headspace: ___ Y ___ N
Preservation Correct/Checked: ___ Y ___ N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
K. Moreland	8/7/23	1230		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.2 °C Bottles Received: 3.2+0=3.2 2
	8/7/23	1500		
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
			Ei Dorrah 17	8-8-23 900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK