

**DCP COAN AT-1-1
FORM 19-S 10 DAY INVESTIGATION SUMMARY REPORT**

ATTACHMENTS

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- 1 Volatile Organic Compound (VOC) Soil Analytical Results
- 2 Polycyclic Aromatic Hydrocarbon (PAH) Soil Analytical Results
- 3 Site-specific Sampling and Analysis Plan
- 4 Soil Sample Location Coordinates

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- 1 Site Location Map
- 2 Soil Analytical Results Map (VOCs)
- 3 Water Well Location Map

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- A Laboratory Analytical Reports
 - Summit Scientific Job #: 2304355 (partial)
 - Summit Scientific Job #: 2304392 (partial)
- B Photographic Documentation Log

Table 1
Coan AT-1-1 Release
Table 915-1 VOCs and TPH Soil Sample Results
Weld County, Colorado

Sample ID	Date Sampled	Lab Report	PID Reading (PPM)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4-Trimethylbenzene (mg/kg)	1,3,5-Trimethylbenzene (mg/kg)	Naphthalene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg)	Comments
COGCC Residential Soil Screening Level Standards (mg/kg)	-	-	-	1.2	490	5.8	58	30	27	2				500	
COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ^(1 & 2) (mg/kg)	-	-	-	0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	-	-	-	500	
Source@4.5'	04/18/2023	2304355	620.7	23	34	7.3	60	15	6.2	3.3	1,700	120	<50	1,820	Source Sample
Source@16'	04/18/2023	2304355	619.2	0.044	0.30	0.090	0.26	0.56	0.18	0.13	19	<50	<50	19	Base Sample
SE-15'@14'	04/18/2023	2304355	105.6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<50	Southeast Sidewall
NE-12'@12'	04/19/2023	2304392	113.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<50	Northeast Sidewall
NW-10'@6'	04/19/2023	2304392	313.9	0.69	7.0	7.6	59	21	8.9	5.3	1,000	750	54	1,804	Northwest Sidewall, overexcavated
SE-8'@14'	04/19/2023	2304392	161.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<50	Southeast Sidewall
SW-10'@6'	04/19/2023	2304392	303.6	0.41	2.2	0.62	7.2	2.9	1.7	1.1	230	77	<50	307	Southwest Sidewall
Source@20'	4/20/2023	Pending	742.7	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Base Sample Confirmation
Source@26'	4/20/2023	Pending	62.3	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	GW Protection Vertical Delineation
NW-12'@14'	4/20/2023	Pending	31.3	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Northwest Sidewall
SW-15'@8'	4/20/2023	Pending	41.3	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	GW Protection southwest delineation

Notes:

- The environmental cleanup standards for soil that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in soil according to Table 915-1 of the COGCC 900 Series Rule for E&P Waste Management.
- Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021. If there is no pathway for communication with Groundwater, then residential soil screening levels apply for organic compounds and metals. If the Director determines that a pathway to Groundwater exists, then the protection of Groundwater soil screening levels will apply, secondary to actual measured concentrations of the contaminants of concern in Groundwater.

GRO - Gas Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
TPH - Total volatile (C₆ - C₁₀) and extractable (C₁₀ - C₃₀) petroleum hydrocarbons.
Concentrations (mg/kg) Risk Based and MCL Based.
mg/kg= Milligrams per kilogram.
ppm - Parts per million

Bold values indicate an exceedance of COGCC Protection of Groundwater Standards
Bold red values indicate an exceedance of COGCC Residential Soil Standards

Table 2
Coan AT-1-1
Polyaromatic Hydrocarbon (PAHs) Soil Sample Results
Weld County, Colorado

Sample ID	Date Sampled	Lab Report	PID Reading (PPM)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)anthracene (mg/kg)	Benzo(a)pyrene (mg/kg)	Benzo(b)fluoranthene (mg/kg)	Benzo(k)fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3-cd)pyrene (mg/kg)	Pyrene (mg/kg)	1-methylnaphthalene (mg/kg)	2-methylnaphthalene (mg/kg)	Comments
COGCC Residential Soil Screening Level Standards (mg/kg) ⁽¹⁾	-	-	-	360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24	
COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ⁽¹⁾ (mg/kg)	-	-	-	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019	
Source@4.5'	04/18/2023	2304355	620.7	<0.500	<0.500	<0.500	5.16	2.39	<0.500	4.73	<0.500	2.87	14.2	<0.500	2.06	54.0	85.4	Source Sample
Source@16'	04/18/2023	2304355	619.2	-	-	-	Pending	Pending	-	Pending	-	Pending	Pending	-	Pending	Pending	Pending	Base Sample
SE-15'@14'	04/18/2023	2304355	105.6	-	-	-	Pending	Pending	-	Pending	-	Pending	Pending	-	Pending	Pending	Pending	Southeast Sidewall
NE-12'@12'	04/19/2023	2304392	113.2	-	-	-	Pending	Pending	-	Pending	-	Pending	Pending	-	Pending	Pending	Pending	Northeast Sidewall
NW-10'@6'	04/19/2023	2304392	313.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Northwest Sidewall; overexcavated
SE-8'@14'	04/19/2023	2304392	161.2	-	-	-	Pending	Pending	-	Pending	-	Pending	Pending	-	Pending	Pending	Pending	Southeast Sidewall
SW-10'@6'	04/19/2023	2304392	303.6	-	-	-	Pending	Pending	-	Pending	-	Pending	Pending	-	Pending	Pending	Pending	Southwest Sidewall

1). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021.

mg/kg= Milligrams per kilogram.

PPM - Parts per million

PID - Photoionization Detector

Bold values indicate an exceedance of the COGCC soil standards for the Site.

TABLE 3
SITE SPECIFIC SOIL SAMPLING AND ANALYSIS PLAN
DCP MIDSTREAM - Coan AT-1-1

Site Specific Constituent of Concern for Soil Analysis	COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ⁽¹⁾
Benzene (mg/kg)	0.0026
Toluene (mg/kg)	0.69
Ethylbenzene (mg/kg)	0.78
Total Xylenes (mg/kg)	9.9
1,2,4-Trimethylbenzene (mg/kg)	0.0081
1,3,5-Trimethylbenzene (mg/kg)	0.0087
Naphthalene (mg/kg)	0.0038
TPH (mg/kg)	500
Benzo(b)fluoranthene (mg/kg)	0.3
Benzo(a)pyrene (mg/kg)	0.24
Chrysene (mg/kg)	9
Fluoranthene (mg/kg)	8.9
Fluorene (mg/kg)	0.54
1-methylnaphthalene (mg/kg)	0.006
2-methylnaphthalene (mg/kg)	0.019
Pyrene (mg/kg)	1.3

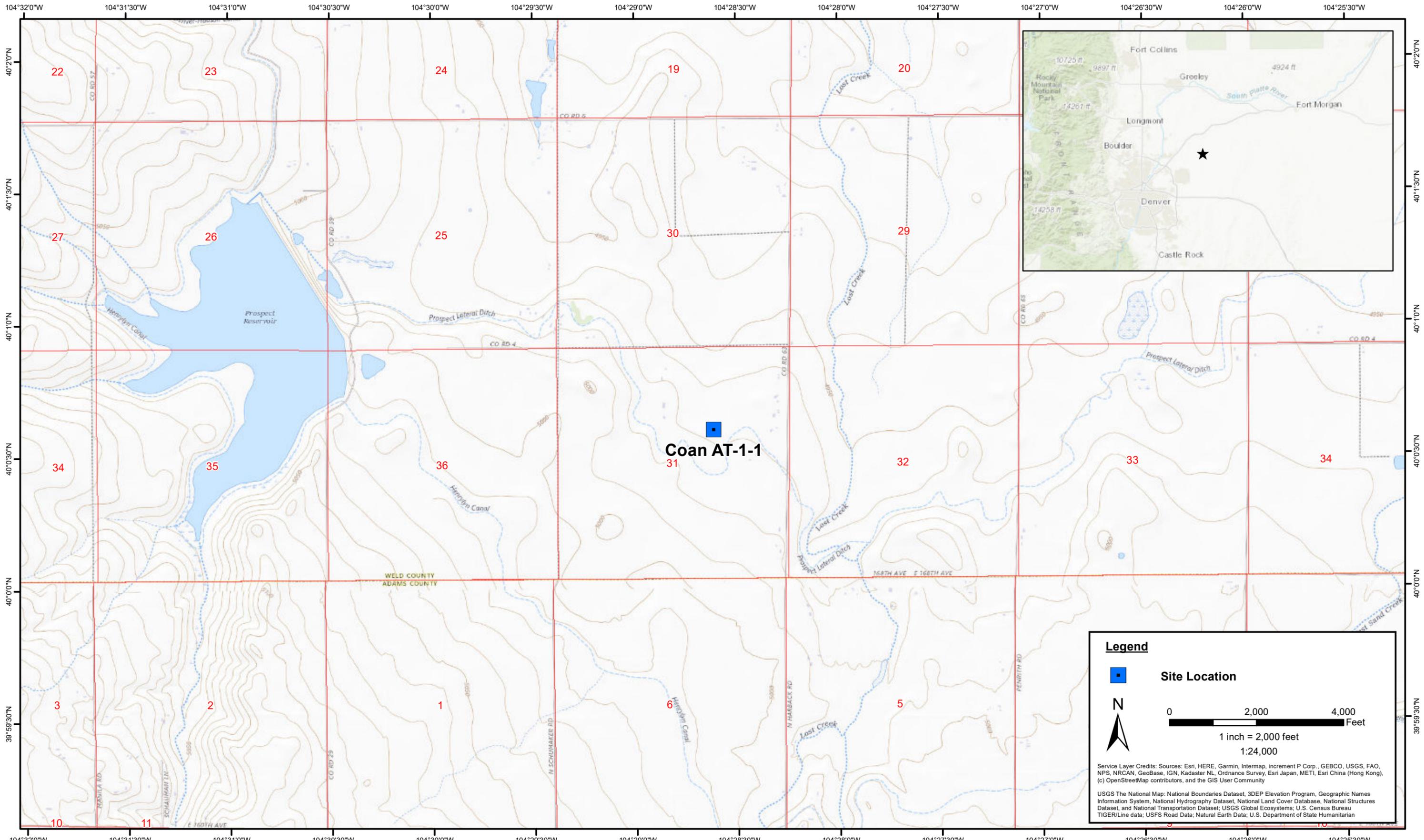
1). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021.

TPH - Total volatile (C₆ - C₁₀) and extractable (C₁₀ - C₃₆) hydrocarbons

mg/kg= Milligrams per kilogram.

Table 4
Coan AT-1-1 Release
Soil Sample Location Coordinates
Weld County, Colorado

Label	x	y
Source	-104.47699143300	40.01032551910
SE-8'	-104.47698230200	40.01030396820
SE-15'	-104.47696212700	40.01028679980
SW-10'	-104.47702648200	40.01031663260
NW-10'	-104.47700214700	40.01035238530
NW-12'	-104.47700493200	40.01035782610
NE-12'	-104.47694990600	40.01033638430



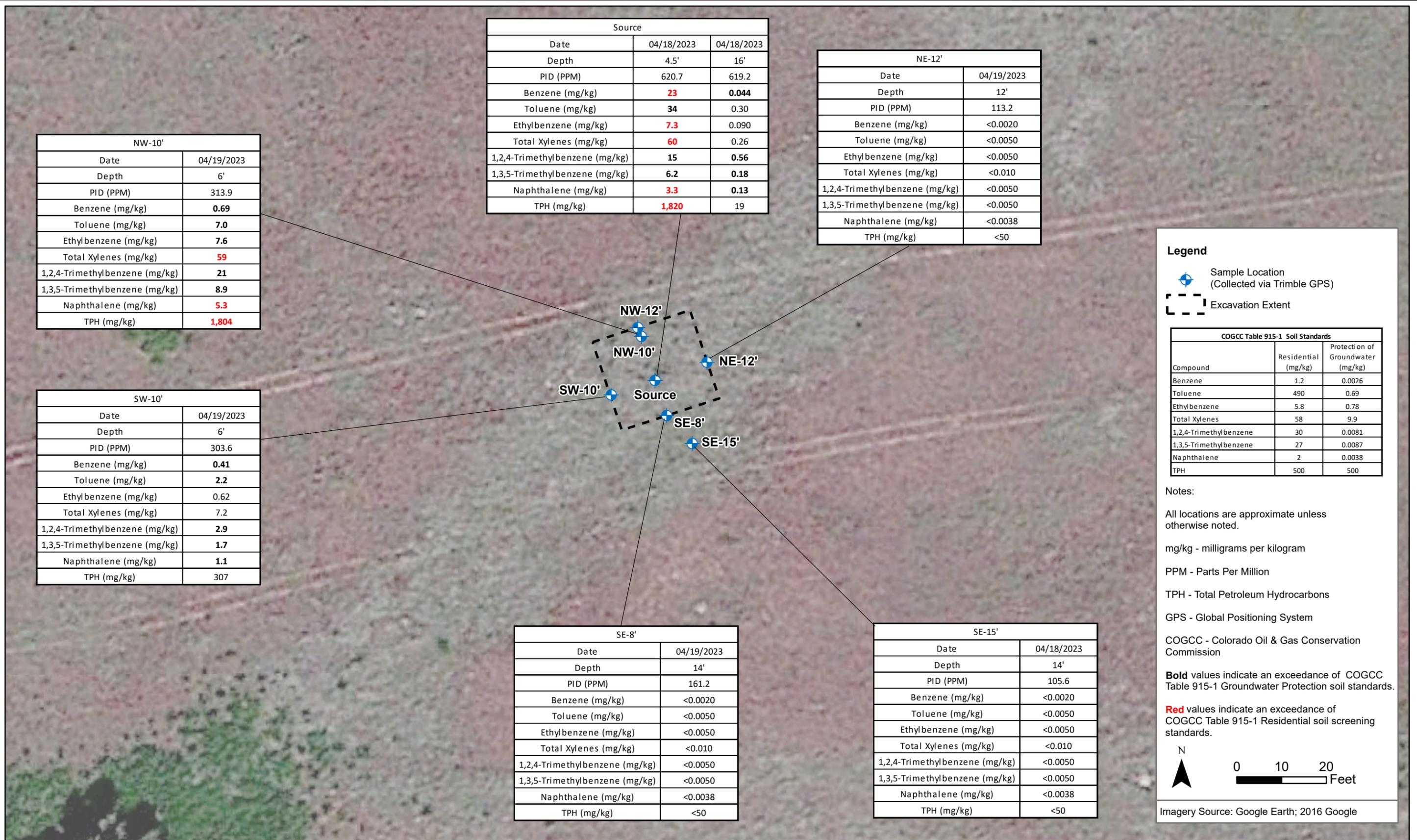
DATE:	April 2023
DESIGNED BY:	J. Watts
DRAWN BY:	J. Clonts


Tasman, Inc.
 6855 W. 119th Ave
 Broomfield, CO 80020

DCP Midstream
Coan AT-1-1
 SWNE Sec. 31-T1N-R63W
 Weld County, Colorado

Site Location Map

Figure
1



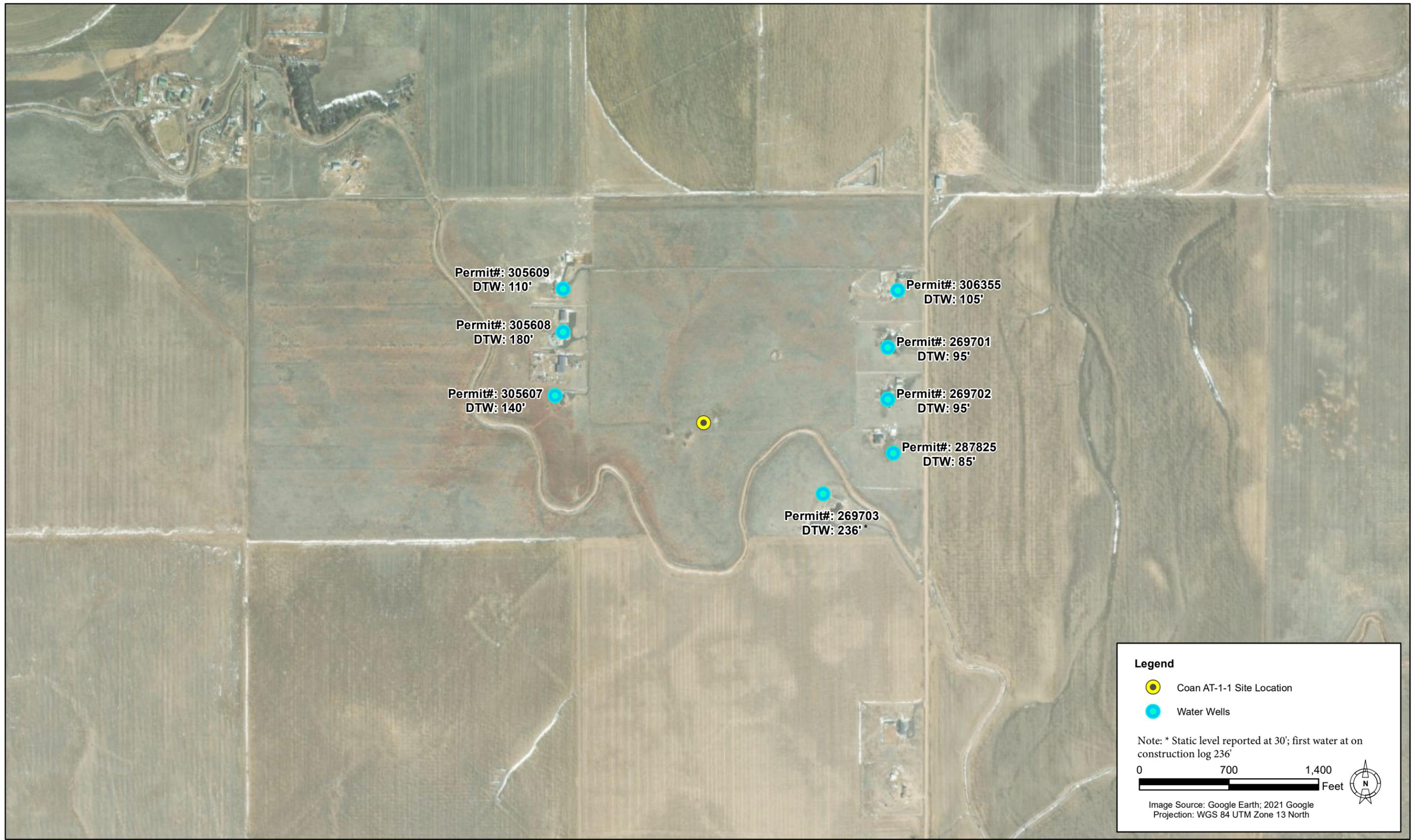
DATE: April 2023
DESIGNED BY: J. Watts
DRAWN BY: J. Clonts



DCP Midstream
Coan AT-1-1
SWNE Sec. 31-T1N-R63W
Weld County, Colorado

Site Overview

Figure
2



Permit#: 305609
DTW: 110'

Permit#: 305608
DTW: 180'

Permit#: 305607
DTW: 140'

Permit#: 306355
DTW: 105'

Permit#: 269701
DTW: 95'

Permit#: 269702
DTW: 95'

Permit#: 287825
DTW: 85'

Permit#: 269703
DTW: 236' *

DATE:	April 2023
DESIGNED BY:	JW
DRAWN BY:	JC



Tasman, Inc.
6855 W. 119th Avenue
Broomfield, Colorado 80020

DCP Midstream
Coan AT-1-1
SWNE Sec. 31-T1N-R63W
Weld County, Colorado

WATER WELL INVESTIGATION
LOCATION MAP

Figure
3

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 20, 2023

Jeb Watts

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: DCP - COAN AT-1-1

Work Order #2304355

Enclosed are the results of analyses for samples received by Summit Scientific on 04/18/23 17:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury
President



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Source@4.5'	2304355-01	Soil	04/18/23 08:23	04/18/23 17:10
Source@16'	2304355-02	Soil	04/18/23 12:23	04/18/23 17:10
SE-15'@14'	2304355-03	Soil	04/18/23 12:57	04/18/23 17:10

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SUMMIT SCIENTIFIC

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID 2304355 Page 1 of 1

Client: <u>DCP / Tasman</u>		Project Manager: <u>Chandler Cole / Job Watts</u>		Company: <u>DCP</u>	
Address: <u>6855 W. 119th Ave.</u>		E-Mail: <u>ccole@dcponline.com; jwatts@dcponline.com</u>		Project Name/Location: <u>COAN AT-1-1</u>	
City/State/Zip: <u>Broomfield CO 80020</u>		Phone: <u>303 487 1228</u>		AFE#:	
Sampler Name: <u>Vadp Scroggs</u>		Project Name: <u>COAN AT-1-1</u>		PO/Billing Codes:	
		Project Number:		Contact: <u>Chandler Cole</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915 VOCs + TPH	915 PAHs	915 Inorganics		
1	Source @ 4.5'	4/18/23	0823	2			X						X	X	H	H = HOLD	
2	Source @ 16'	4/18/23	1223	2			X						X	H	H		
3	SF-15' @ 14'	4/18/23	1257	2			X						X	H	H		
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>4/18/23 1708</u>	Received by: <u>[Signature]</u>	Date/Time: <u>17:10 4/18/23</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: _____	Corrected Temperature <u>12.1</u>	IR gun #: <u>02</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2304355

Client: DCP / Tasman Client Project ID: COAN AT-1-1

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [] Airbill #: []

Matrix (Check all that apply) Air [] Soil/Solid [x] Water [] Other []

Temp (°C) 12.1 Thermometer # 02

Table with 5 columns: Question, Yes, No, N/A, Comments (if any). Rows include: If samples require cooling, is the temperature < 6°C? (1), If custody seals are present, are they intact? (1), Are samples due within 48 hours present?, Are water samples with short hold times present?, Is a chain-of-custody (COC) form present and filled out Completely? (1), Is the COC properly relinquished by the client w/ date and time recorded? (1), Were all samples received intact? (1), Was adequate sample volume provided? (1), Does the COC agree with the number and type of sample bottles received? (1), Do the sample IDs on the bottle labels match the COC?(1), For volatiles in water - is there headspace present? If yes, contact client and note in narrative., Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column - HCl, H2SO4, NaOH, HNO3, etc., If samples are acid preserved for metals, is the pH <= 2? (1) Record the pH in Comments., If dissolved metals are requested, were samples field filtered?

Additional Comments (if any):

(1) If NO, then contact the client before proceeding with analysis and note in case narrative.

GAC Custodian Printed Name

4/18/23 17:10 Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:48

Source@4.5'
2304355-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/18/23 08:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	23	0.020		mg/kg	10	BGD0585	04/18/23	04/18/23	EPA 8260B	E
Toluene	34	0.050		"	"	"	"	"	"	E
Ethylbenzene	7.3	0.050		"	"	"	"	"	"	E
Xylenes (total)	60	0.10		"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	15	0.050		"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	6.2	0.050		"	"	"	"	"	"	E
Naphthalene	3.3	0.038		"	"	"	"	"	"	E
Gasoline Range Hydrocarbons	1700	5.0		"	"	"	"	"	"	E

Date Sampled: **04/18/23 08:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0302	75.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.110	275 %		50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.0697	174 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/18/23 08:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	120	50		mg/kg	1	BGD0586	04/18/23	04/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/18/23 08:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.4	82.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:48

Source@4.5'
2304355-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/18/23 08:23**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.500	mg/kg	100	BGD0597	04/19/23	04/19/23	EPA 8270D SIM	
Anthracene	ND	0.500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.500	"	"	"	"	"	"	
Benzo (a) pyrene	5.16	0.500	"	"	"	"	"	"	
Benzo (b) fluoranthene	2.39	0.500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.500	"	"	"	"	"	"	
Chrysene	4.73	0.500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.500	"	"	"	"	"	"	
Fluoranthene	2.87	0.500	"	"	"	"	"	"	
Fluorene	14.2	0.500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.500	"	"	"	"	"	"	
Pyrene	2.06	0.500	"	"	"	"	"	"	
1-Methylnaphthalene	54.0	0.500	"	"	"	"	"	"	E
2-Methylnaphthalene	85.4	0.500	"	"	"	"	"	"	E

Date Sampled: **04/18/23 08:23**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.00	%		40-150	"	"	"	"	S-01
Surrogate: Fluoranthene-d10	0.00	%		40-150	"	"	"	"	S-01

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:48

Source@16'
2304355-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/18/23 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.044	0.0020	mg/kg	1	BGD0585	04/18/23	04/18/23	EPA 8260B	
Toluene	0.30	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.090	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.26	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.56	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.18	0.0050	"	"	"	"	"	"	
Naphthalene	0.13	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	19	0.50	"	"	"	"	"	"	

Date Sampled: **04/18/23 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0374	93.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0468	117 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0440	110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/18/23 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0586	04/18/23	04/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/18/23 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.4	83.1 %	30-150		"	"	"	"	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:48

SE-15'@14'
2304355-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/18/23 12:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGD0585	04/18/23	04/18/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/18/23 12:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0390	97.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/18/23 12:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0586	04/18/23	04/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/18/23 12:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.3	90.7 %	30-150		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BGD0585 - EPA 5030 Soil MS

Blank (BGD0585-BLK1)

Prepared: 04/18/23 Analyzed: 04/19/23

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	0.0425		"	0.0400		106	50-150				
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150				
Surrogate: 4-Bromofluorobenzene	0.0413		"	0.0400		103	50-150				

LCS (BGD0585-BS1)

Prepared: 04/18/23 Analyzed: 04/19/23

Benzene	0.0871	0.0020	mg/kg	0.100		87.1	70-130				
Toluene	0.0963	0.0050	"	0.100		96.3	70-130				
Ethylbenzene	0.110	0.0050	"	0.100		110	70-130				
m,p-Xylene	0.218	0.010	"	0.200		109	70-130				
o-Xylene	0.103	0.0050	"	0.100		103	70-130				
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100		109	70-130				
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.100		111	70-130				
Naphthalene	0.0818	0.0038	"	0.100		81.8	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0337		"	0.0400		84.2	50-150				
Surrogate: Toluene-d8	0.0396		"	0.0400		98.9	50-150				
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.2	50-150				

Matrix Spike (BGD0585-MS1)

Source: 2304355-02

Prepared: 04/18/23 Analyzed: 04/19/23

QM-07

Benzene	0.139	0.0020	mg/kg	0.100	0.0444	95.1	70-130				
Toluene	0.794	0.0050	"	0.100	0.296	498	70-130				
Ethylbenzene	0.394	0.0050	"	0.100	0.0897	304	70-130				
m,p-Xylene	2.14	0.010	"	0.200	0.627	757	70-130				
o-Xylene	0.908	0.0050	"	0.100	0.264	644	70-130				
1,2,4-Trimethylbenzene	1.39	0.0050	"	0.100	0.560	829	70-130				
1,3,5-Trimethylbenzene	0.490	0.0050	"	0.100	0.177	313	70-130				
Naphthalene	0.386	0.0038	"	0.100	0.133	253	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0367		"	0.0400		91.7	50-150				
Surrogate: Toluene-d8	0.0473		"	0.0400		118	50-150				
Surrogate: 4-Bromofluorobenzene	0.0315		"	0.0400		78.8	50-150				

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BGD0585 - EPA 5030 Soil MS

Matrix Spike Dup (BGD0585-MSD1)	Source: 2304355-02			Prepared: 04/18/23 Analyzed: 04/19/23		QM-07			
Benzene	0.118	0.0020	mg/kg	0.100	0.0444	73.9	70-130	16.5	30
Toluene	0.532	0.0050	"	0.100	0.296	236	70-130	39.5	30
Ethylbenzene	0.307	0.0050	"	0.100	0.0897	218	70-130	24.7	30
m,p-Xylene	1.62	0.010	"	0.200	0.627	496	70-130	27.7	30
o-Xylene	0.697	0.0050	"	0.100	0.264	433	70-130	26.3	30
1,2,4-Trimethylbenzene	1.22	0.0050	"	0.100	0.560	660	70-130	12.9	30
1,3,5-Trimethylbenzene	0.411	0.0050	"	0.100	0.177	234	70-130	17.5	30
Naphthalene	0.392	0.0038	"	0.100	0.133	259	70-130	1.68	30
Surrogate: 1,2-Dichloroethane-d4	0.0371		"	0.0400		92.7	50-150		
Surrogate: Toluene-d8	0.0432		"	0.0400		108	50-150		
Surrogate: 4-Bromofluorobenzene	0.0485		"	0.0400		121	50-150		

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:48

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BGD0586 - EPA 3550A

Blank (BGD0586-BLK1)

Prepared: 04/18/23 Analyzed: 04/19/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	10.0		"	12.5		80.2	30-150				

LCS (BGD0586-BS1)

Prepared: 04/18/23 Analyzed: 04/19/23

C10-C28 (DRO)	395	50	mg/kg	500		79.0	70-130				
Surrogate: <i>o</i> -Terphenyl	8.89		"	12.5		71.1	30-150				

Matrix Spike (BGD0586-MS1)

Source: 2304355-02

Prepared: 04/18/23 Analyzed: 04/19/23

C10-C28 (DRO)	392	50	mg/kg	500	32.9	71.9	70-130				
Surrogate: <i>o</i> -Terphenyl	6.49		"	12.5		51.9	30-150				

Matrix Spike Dup (BGD0586-MSD1)

Source: 2304355-02

Prepared: 04/18/23 Analyzed: 04/19/23

C10-C28 (DRO)	399	50	mg/kg	500	32.9	73.2	70-130	1.64	20		
Surrogate: <i>o</i> -Terphenyl	7.43		"	12.5		59.4	30-150				

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:48

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BGD0597 - EPA 5030 Soil MS

Blank (BGD0597-BLK1)

Prepared & Analyzed: 04/19/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0385</i>		"	<i>0.0333</i>		<i>115</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0390</i>		"	<i>0.0333</i>		<i>117</i>	<i>40-150</i>			

LCS (BGD0597-BS1)

Prepared & Analyzed: 04/19/23

Acenaphthene	0.0384	0.00500	mg/kg	0.0333		115	31-137			
Anthracene	0.0368	0.00500	"	0.0333		110	30-120			
Benzo (a) anthracene	0.0300	0.00500	"	0.0333		90.0	30-120			
Benzo (a) pyrene	0.0303	0.00500	"	0.0333		90.8	30-120			
Benzo (b) fluoranthene	0.0384	0.00500	"	0.0333		115	30-120			
Benzo (k) fluoranthene	0.0328	0.00500	"	0.0333		98.4	30-120			
Chrysene	0.0300	0.00500	"	0.0333		89.9	30-120			
Dibenz (a,h) anthracene	0.0343	0.00500	"	0.0333		103	30-120			
Fluoranthene	0.0378	0.00500	"	0.0333		114	30-120			
Fluorene	0.0399	0.00500	"	0.0333		120	30-120			
Indeno (1,2,3-cd) pyrene	0.0315	0.00500	"	0.0333		94.6	30-120			
Pyrene	0.0364	0.00500	"	0.0333		109	35-142			
1-Methylnaphthalene	0.0382	0.00500	"	0.0333		115	35-142			
2-Methylnaphthalene	0.0365	0.00500	"	0.0333		110	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0350</i>		"	<i>0.0333</i>		<i>105</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0362</i>		"	<i>0.0333</i>		<i>109</i>	<i>40-150</i>			

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:48

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BGD0597 - EPA 5030 Soil MS

Matrix Spike (BGD0597-MS1)	Source: 2304373-01			Prepared & Analyzed: 04/19/23						
Acenaphthene	0.0249	0.00500	mg/kg	0.0333	ND	74.8	31-137			
Anthracene	0.0264	0.00500	"	0.0333	ND	79.2	30-120			
Benzo (a) anthracene	0.0208	0.00500	"	0.0333	ND	62.5	30-120			
Benzo (a) pyrene	0.0226	0.00500	"	0.0333	ND	67.8	30-120			
Benzo (b) fluoranthene	0.0245	0.00500	"	0.0333	ND	73.4	30-120			
Benzo (k) fluoranthene	0.0220	0.00500	"	0.0333	ND	66.1	30-120			
Chrysene	0.0212	0.00500	"	0.0333	ND	63.5	30-120			
Dibenz (a,h) anthracene	0.0248	0.00500	"	0.0333	ND	74.3	30-120			
Fluoranthene	0.0245	0.00500	"	0.0333	ND	73.5	30-120			
Fluorene	0.0270	0.00500	"	0.0333	ND	81.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0259	0.00500	"	0.0333	ND	77.6	30-120			
Pyrene	0.0342	0.00500	"	0.0333	ND	103	35-142			
1-Methylnaphthalene	0.0269	0.00500	"	0.0333	ND	80.8	15-130			
2-Methylnaphthalene	0.0280	0.00500	"	0.0333	ND	84.0	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0287</i>		<i>"</i>	<i>0.0333</i>		<i>86.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0260</i>		<i>"</i>	<i>0.0333</i>		<i>78.0</i>	<i>40-150</i>			

Matrix Spike Dup (BGD0597-MSD1)	Source: 2304373-01			Prepared & Analyzed: 04/19/23						
Acenaphthene	0.0257	0.00500	mg/kg	0.0333	ND	77.2	31-137	3.11	30	
Anthracene	0.0214	0.00500	"	0.0333	ND	64.1	30-120	21.1	30	
Benzo (a) anthracene	0.0175	0.00500	"	0.0333	ND	52.5	30-120	17.4	30	
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.8	30-120	4.50	30	
Benzo (b) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.9	30-120	21.9	30	
Benzo (k) fluoranthene	0.0200	0.00500	"	0.0333	ND	60.0	30-120	9.67	30	
Chrysene	0.0199	0.00500	"	0.0333	ND	59.8	30-120	5.95	30	
Dibenz (a,h) anthracene	0.0216	0.00500	"	0.0333	ND	64.9	30-120	13.5	30	
Fluoranthene	0.0221	0.00500	"	0.0333	ND	66.3	30-120	10.2	30	
Fluorene	0.0218	0.00500	"	0.0333	ND	65.5	30-120	21.1	30	
Indeno (1,2,3-cd) pyrene	0.0207	0.00500	"	0.0333	ND	62.0	30-120	22.2	30	
Pyrene	0.0275	0.00500	"	0.0333	ND	82.6	35-142	21.7	30	
1-Methylnaphthalene	0.0229	0.00500	"	0.0333	ND	68.6	15-130	16.3	50	
2-Methylnaphthalene	0.0230	0.00500	"	0.0333	ND	69.0	15-130	19.6	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0248</i>		<i>"</i>	<i>0.0333</i>		<i>74.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0225</i>		<i>"</i>	<i>0.0333</i>		<i>67.6</i>	<i>40-150</i>			

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:48

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 20, 2023

Jeb Watts

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: DCP - COAN AT-1-1

Work Order #2304392

Enclosed are the results of analyses for samples received by Summit Scientific on 04/19/23 14:36. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury

President



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NW-10'@6'	2304392-01	Soil	04/19/23 11:32	04/19/23 14:36
NE-12'@12'	2304392-02	Soil	04/19/23 11:49	04/19/23 14:36
SE-8'@14'	2304392-03	Soil	04/19/23 12:12	04/19/23 14:36
SW-10'@6'	2304392-04	Soil	04/19/23 12:59	04/19/23 14:36

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SUMMIT SCIENTIFIC

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page / of /
2304392	

Send Data To:		Send Invoice To:	
Client: DCP/Tasman	Project Manager: Chandler Cole; Jeb Watts	Company: DCP	
Address: 6855 W. 119th Ave	E-Mail: ccole@depudst.com; jwatts@depudst.com	Project Name/Location: COAN AT-1-1	
City/State/Zip: Broomfield, CO, 80020	jwatts@tasman-pro.com; vscrygg@tasman-pro.com	AFE#:	
Phone: (303) 487-1228	Project Name: COAN AT-1-1	PO/Billing Codes:	
Sampler Name: Wade Scrygggs	Project Number:	Contact: Chandler Cole	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested			Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915 Vols + TPH	915 PAHs		915 Inorganics
1	NW-10' @ 6'	4/19/23	1132	2			X			X			X	H	H	H=Hold
2	NE-12' @ 12'	4/19/23	1149	2			X			X			X	H	H	
3	SE-8' @ 14'	4/19/23	1212	2			X			X			X	H	H	
4	SW-10' @ 6'	4/19/23	1259	2			X			X			X	H	H	
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 13.3	Corrected Temperature	IR gun #: 02	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 23641392

Client: DCP Tasman Client Project ID: COAN AT-1-1

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [] Airbill #: []

Matrix (Check all that apply) Air [] Soil/Solid [X] Water [] Other []

Temp (°C) 13.3 Thermometer # 02

Table with 5 columns: Question, Yes, No, N/A, Comments (if any). Rows include: If samples require cooling, is the temperature < 6°C? (1), If custody seals are present, are they intact? (1), Are samples due within 48 hours present?, Are water samples with short hold times present?, Is a chain-of-custody (COC) form present and filled out Completely? (1), Is the COC properly relinquished by the client w/ date and time recorded? (1), Were all samples received intact? (1), Was adequate sample volume provided? (1), Does the COC agree with the number and type of sample bottles received? (1), Do the sample IDs on the bottle labels match the COC?(1), For volatiles in water - is there headspace present? If yes, contact client and note in narrative., Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column - HCl, H2SO4, NaOH, HNO3, etc., If samples are acid preserved for metals, is the pH <= 2? (1) Record the pH in Comments., If dissolved metals are requested, were samples field filtered?

Additional Comments (if any):

(1) If NO, then contact the client before proceeding with analysis and note in case narrative.

Cecilia Youhane Custodian Printed Name

04-10-23 14 Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:51

NW-10'@6'
2304392-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/23 11:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	0.69	0.020		mg/kg	10	BGD0625	04/19/23	04/19/23	EPA 8260B	
Toluene	7.0	0.050		"	"	"	"	"	"	E
Ethylbenzene	7.6	0.050		"	"	"	"	"	"	E
Xylenes (total)	59	0.10		"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	21	0.050		"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	8.9	0.050		"	"	"	"	"	"	E
Naphthalene	5.3	0.038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1000	5.0		"	"	"	"	"	"	

Date Sampled: **04/19/23 11:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0398	99.4 %		50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0651	163 %		50-150		"	"	"	"	S-02
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0692	173 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/23 11:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	750	50		mg/kg	1	BGD0626	04/19/23	04/19/23	EPA 8015M	
C28-C36 (ORO)	54	50		"	"	"	"	"	"	

Date Sampled: **04/19/23 11:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: o-Terphenyl</i>	11.9	94.8 %		30-150		"	"	"	"	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:51

NE-12'@12'
2304392-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/23 11:49**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BGD0625	04/19/23	04/19/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/23 11:49**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0387	96.8 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.0 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/23 11:49**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0626	04/19/23	04/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/19/23 11:49**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	12.5	100 %	30-150	"	"	"	"	"	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:51

SE-8'@14'
2304392-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGD0625	04/19/23	04/19/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0381	95.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0626	04/19/23	04/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/19/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.1	113 %	30-150		"	"	"	"	

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6855 W. 119th Ave.
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Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:51

SW-10'@6'
2304392-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/23 12:59**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	0.41	0.0020		mg/kg	1	BGD0625	04/19/23	04/19/23	EPA 8260B	
Toluene	2.2	0.050		"	10	"	"	"	"	
Ethylbenzene	0.62	0.050		"	"	"	"	"	"	
Xylenes (total)	7.2	0.10		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	2.9	0.050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	1.7	0.050		"	"	"	"	"	"	
Naphthalene	1.1	0.038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	230	5.0		"	"	"	"	"	"	

Date Sampled: **04/19/23 12:59**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0360	90.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0422	105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0328	81.9 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/23 12:59**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	77	50		mg/kg	1	BGD0626	04/19/23	04/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/19/23 12:59**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.3	106 %		30-150		"	"	"	"	

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Tasman Geosciences
6855 W. 119th Ave.
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Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BGD0625 - EPA 5030 Soil MS

Blank (BGD0625-BLK1)

Prepared: 04/19/23 Analyzed: 04/20/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0418		"	0.0400		104	50-150			
<i>Surrogate: Toluene-d8</i>	0.0380		"	0.0400		95.0	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0402		"	0.0400		101	50-150			

LCS (BGD0625-BS1)

Prepared: 04/19/23 Analyzed: 04/20/23

Benzene	0.0775	0.0020	mg/kg	0.100		77.5	70-130			
Toluene	0.0718	0.0050	"	0.100		71.8	70-130			
Ethylbenzene	0.105	0.0050	"	0.100		105	70-130			
m,p-Xylene	0.211	0.010	"	0.200		105	70-130			
o-Xylene	0.0842	0.0050	"	0.100		84.2	70-130			
1,2,4-Trimethylbenzene	0.113	0.0050	"	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100		104	70-130			
Naphthalene	0.0733	0.0038	"	0.100		73.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0328		"	0.0400		81.9	50-150			
<i>Surrogate: Toluene-d8</i>	0.0304		"	0.0400		76.1	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0316		"	0.0400		79.0	50-150			

Matrix Spike (BGD0625-MS1)

Source: 2304392-03

Prepared: 04/19/23 Analyzed: 04/20/23

Benzene	0.0858	0.0020	mg/kg	0.100	ND	85.8	70-130			
Toluene	0.0997	0.0050	"	0.100	ND	99.7	70-130			
Ethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130			
m,p-Xylene	0.243	0.010	"	0.200	ND	122	70-130			
o-Xylene	0.114	0.0050	"	0.100	ND	114	70-130			
1,2,4-Trimethylbenzene	0.121	0.0050	"	0.100	ND	121	70-130			
1,3,5-Trimethylbenzene	0.122	0.0050	"	0.100	ND	122	70-130			
Naphthalene	0.114	0.0038	"	0.100	ND	114	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0357		"	0.0400		89.3	50-150			
<i>Surrogate: Toluene-d8</i>	0.0391		"	0.0400		97.6	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0398		"	0.0400		99.4	50-150			

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6855 W. 119th Ave.
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Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BGD0625 - EPA 5030 Soil MS

Matrix Spike Dup (BGD0625-MSD1)	Source: 2304392-03			Prepared: 04/19/23 Analyzed: 04/20/23						
Benzene	0.0850	0.0020	mg/kg	0.100	ND	85.0	70-130	0.914	30	
Toluene	0.100	0.0050	"	0.100	ND	100	70-130	0.630	30	
Ethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	4.68	30	
m,p-Xylene	0.227	0.010	"	0.200	ND	114	70-130	6.89	30	
o-Xylene	0.109	0.0050	"	0.100	ND	109	70-130	4.77	30	
1,2,4-Trimethylbenzene	0.125	0.0050	"	0.100	ND	125	70-130	3.15	30	
1,3,5-Trimethylbenzene	0.116	0.0050	"	0.100	ND	116	70-130	5.87	30	
Naphthalene	0.110	0.0038	"	0.100	ND	110	70-130	4.26	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0349</i>		<i>"</i>	<i>0.0400</i>		<i>87.2</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.1</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0384</i>		<i>"</i>	<i>0.0400</i>		<i>96.1</i>	<i>50-150</i>			

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:51

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BGD0626 - EPA 3550A

Blank (BGD0626-BLK1)

Prepared: 04/19/23 Analyzed: 04/20/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	15.4		"	12.5		123	30-150			

LCS (BGD0626-BS1)

Prepared: 04/19/23 Analyzed: 04/20/23

C10-C28 (DRO)	450	50	mg/kg	500		89.9	70-130			
Surrogate: <i>o</i> -Terphenyl	12.0		"	12.5		96.4	30-150			

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/20/23 12:51

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Project Name:

Coan AT-1-1

Site Location:

40.010331, -104.477020

Date: 4/15 – 4/19/2023

Photographed By:

DCP/Tasman

Photo No.

1

Direction Photo Taken:

West

Description:

Surface staining at release location.



Photo No.

2

Direction Photo Taken:

East-Northeast

Description:

Exposed pipeline during excavation.

