

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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- 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:

1). 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.

2). 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)	Benz(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

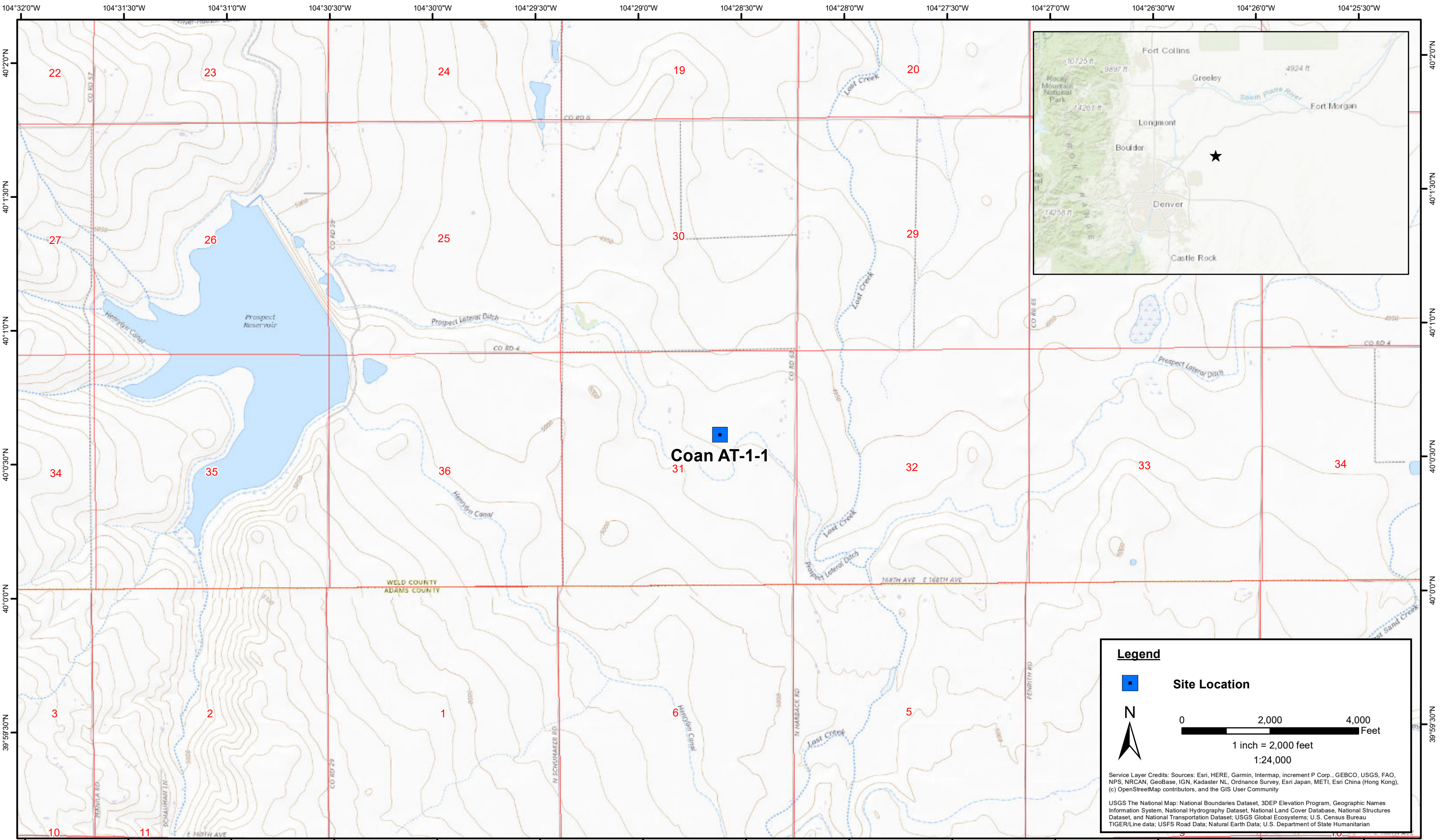
1). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021.

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

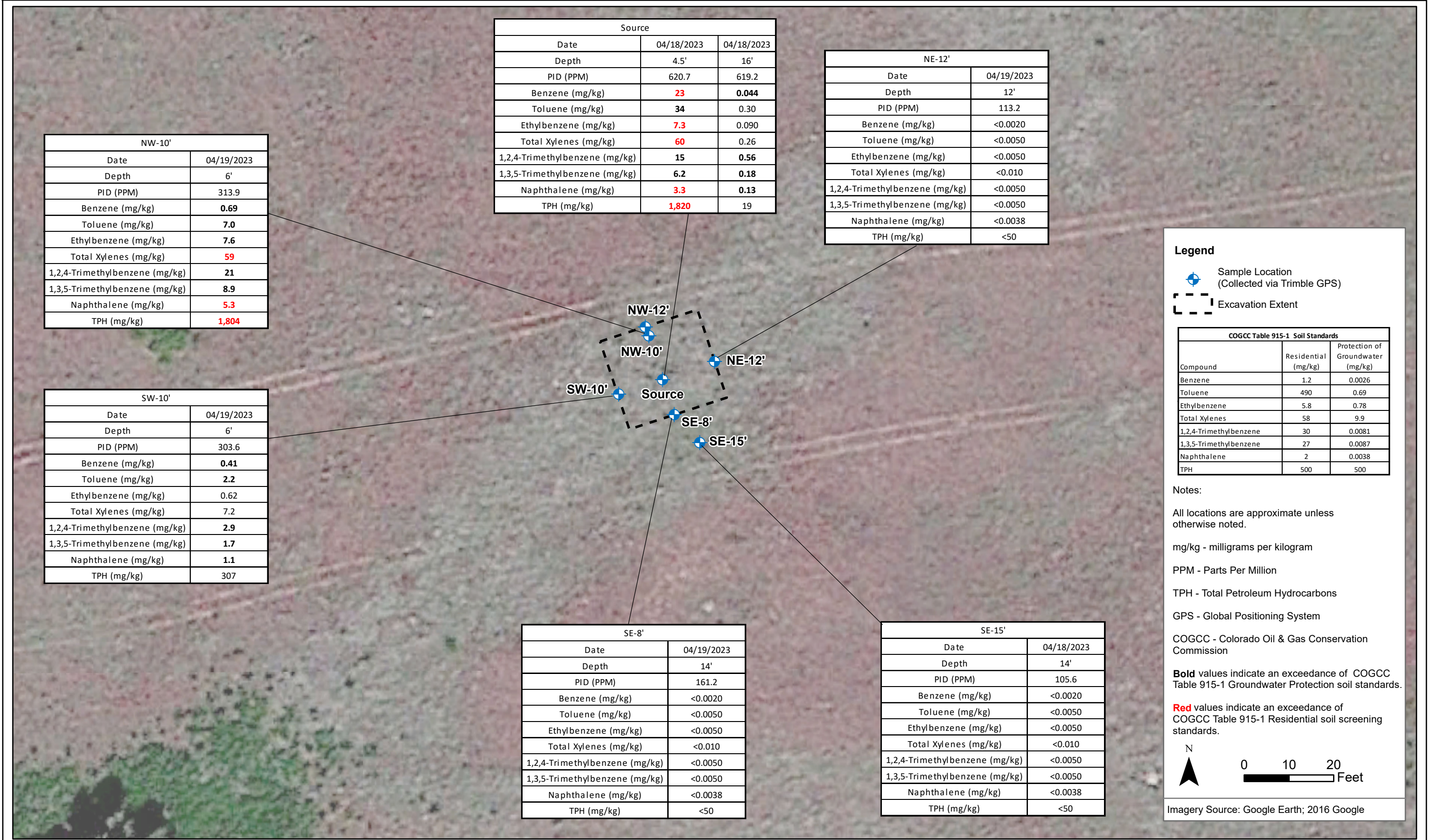


Tasman, Inc.
6855 W. 119th Ave
Broomfield, CO 80020

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

Site Location Map

Figure
1





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

**TASMAN**

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,

A handwritten signature in black ink, appearing to read "Scott Sheely".

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.

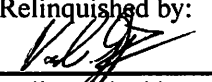
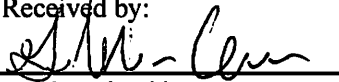
SUMMIT SCIENTIFIC

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

Lab ID	Page / of /
2304.355	

Client: DCP / Tasman		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave.		Project Manager: Chandler Cole / Jeb Watts		Company: DCP	
City/State/Zip: Broomfield CO 80070		E-Mail: ccrolp@dcpsystems.com; jwatts@dcpsystems.com		Project Name/Location: COAN AT-1-1	
Phone: 303 487 1228		Project Name: COAN AT-1-1		AFE#:	
Sampler Name: Vdp Scroggs		Project Number:		PO/Billing Codes:	
				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 VOC + TPH	915 PAHs	915 Inorganics						
1	Source @ 4.5'	4/18/23	0823	2			X			X			X	X	H						
2	Source @ 16'	4/18/23	1223	2			X			X			X	H	H						
3	SF-15' @ 14'	4/18/23	1257	2			X			X			X	H	H						
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: 	Date/Time: 4/18/23 1708	Received by: 	Date/Time: 17:10 4/18/23	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt:	Corrected Temperature: 12.1	IR gun #: 02	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2304355Client: DGP / Tasman Client Project ID: COAN AT-1-1Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 12.1 Thermometer # 02

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same Day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>	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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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

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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

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

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: o-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: o-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: o-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: o-Terphenyl	7.43		"	12.5		59.4	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 12:48

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0385		"	0.0333		115	40-150			
Surrogate: Fluoranthene-d10	0.0390		"	0.0333		117	40-150			

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			
Surrogate: 2-Methylnaphthalene-d10	0.0350		"	0.0333		105	40-150			
Surrogate: Fluoranthene-d10	0.0362		"	0.0333		109	40-150			

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

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

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		
Surrogate: 2-Methylnaphthalene-d10	0.0287		"	0.0333		86.1	40-150		
Surrogate: Fluoranthene-d10	0.0260		"	0.0333		78.0	40-150		

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
Surrogate: 2-Methylnaphthalene-d10	0.0248		"	0.0333		74.2	40-150		
Surrogate: Fluoranthene-d10	0.0225		"	0.0333		67.6	40-150		

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

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,

A handwritten signature in black ink, appearing to read "Scott Sheely".

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	

Client: DCP/Tasman		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave		Project Manager: Chandler Cole; Jeb Watts		Company: DCP	
City/State/Zip: Broomfield, CO, 80020		E-Mail: ccole@dcplab.com; jwatts@dcplab.com		Project Name/Location: COAN AT-1-1	
Phone: (303) 487-1228		just@dcplab.com; jwatts@dcplab.com		AFE#:	
Sampler Name: Wade Scruggs		Project Name: COAN AT-1-1		PO/Billing Codes:	
		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# 2364/392Client: DCP Tasman Client Project ID: COAN AT-1-1Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 13.3Thermometer # 02

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

Levin Joubert
Custodian Printed Name

24-11-23 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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0398	99.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0651	163 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.0692	173 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

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

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

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

Summit Scientific

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Broomfield CO, 80020

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							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0360	90.1 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0422	105 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	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							
<i>Surrogate: o-Terphenyl</i>	13.3	106 %	30-150		"	"	"	"	

Summit Scientific

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Broomfield CO, 80020

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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0418		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0380		"	0.0400		95.0	50-150			
Surrogate: 4-Bromofluorobenzene	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			
Surrogate: 1,2-Dichloroethane-d4	0.0328		"	0.0400		81.9	50-150			
Surrogate: Toluene-d8	0.0304		"	0.0400		76.1	50-150			
Surrogate: 4-Bromofluorobenzene	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			
Surrogate: 1,2-Dichloroethane-d4	0.0357		"	0.0400		89.3	50-150			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	50-150			

Summit Scientific

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Broomfield CO, 80020

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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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	
Surrogate: 1,2-Dichloroethane-d4	0.0349		"	0.0400		87.2	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.1	50-150			

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

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: o-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: o-Terphenyl	12.0		"	12.5		96.4	30-150			

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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.			