

North Drieth Separator

NENE Sec. 6-T3N-R68W

Facility/Location ID: 432235

Spill/Release Point ID: 482417

Separator Spill Excavation Soil Assessment

June & August 2022

Prepared by Tasman, Inc.



On behalf of Crestone Peak Resources Operating, LLC



FIELD NOTES AND PHOTO LOG



SITE NAME: Drieth 6H-A368							DATE: 6/24/2022	REM. PROJECT #:	WEATHER: Sunny 78 degrees
SITE DIRECTIONS: CR 38 & CR 3, S. 460 ft, W. INTO							CLIENT: Crestone Peak Resources Operating, LLC		
LEGALS AND LAT/LONG: 40.260397, -105.037138							TASMAN PERSONNEL: Sierra Kirylo		
SOIL TYPES: Clayey Sand - SC							SURFACE GRADIENT: West		
SOIL SAMPLING							FACILITY INFRASTRUCTURE		
Date/Time	Soil Sample ID	PID (ppm)	Visual	Olfactory	Photo?	Grab or Lab Sample?	EQUIPMENT		Quantity
							Above Ground Storage Tank (AST)		
6/24/2022 10:45	SS01@1'	2.6	HC Staining	No Odor	Yes	Lab	Buried or Partially Buried Vessel		
6/24/2022 10:50	SS02@1'	1.5	No Staining	No Odor	Yes	Lab	Separator		1
6/24/2022 10:55	SS03@1'	0.8	HC Staining	No Odor	Yes	Lab	Emission Control Device (ECD)		
6/24/2022 11:00	SS04@2'	3.5	HC Staining	No Odor	Yes	Lab	Dump Line		
6/24/2022 11:05	SS05@1.5'	32.3	HC Staining	No Odor	Yes	Lab	Wellhead		
6/24/2022 11:10	SS06@1'	443.2	HC Staining	Slight HC Odor	Yes	Lab	Flowline		
							Other:		
							Soil Loads Removed		
							IMPACTED SOIL IDENTIFIED?		
							ESTIMATED VOLUME OF IMPACTS:		
							Date	Number	CY
							Total Removed	0	0
							Disposal Facility:		
							Groundwater Recovery		
							DATE GW ENCOUNTERED:		DEPTH:
							GROUNDWATER IN CONTACT WITH IMPACTED SOIL?		
							LNAPL OR SHEEN OBSERVED ON GW?		
GROUNDWATER SAMPLING							Date		BBLS
Date/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?			
							Total Removed		0
							Disposal Facility:		



Separator



SITE NAME: Drieth 6H-A368							DATE: 8/25/2022	REM. PROJECT #:	WEATHER: 75		
SITE DIRECTIONS: N. Bound 1-25 to left on CR 34 for 2.9 miles, right on CR 3 for 1.9 miles destination on left hand side							CLIENT: Crestone Peak Resources Operating, LLC				
LEGALS AND LAT/LONG: 40.260194, -105.037315							TASMAN PERSONNEL: Dalton Hagen				
SOIL TYPES: Clayey Sand - SC							SURFACE GRADIENT: Southwest				
SOIL SAMPLING							FACILITY INFRASTRUCTURE				
Date/Time	Soil Sample ID	PID (ppm)	Visual	Olfactory	Photo?	Grab or Lab Sample?	EQUIPMENT		Quantity		
							Above Ground Storage Tank (AST)				
8/25/2022 11:35	SS07@3'	2.3	No Staining	No Odor	Yes	Lab	Buried or Partially Buried Vessel				
8/25/2022 11:40	SS08@3'	5.5	No Staining	No Odor	Yes	Lab	Separator		1		
8/25/2022 11:45	SS09@3'	0.0	No Staining	No Odor	Yes	Lab	Emission Control Device (ECD)				
8/25/2022 11:50	SS10@3'	0.0	No Staining	No Odor	Yes	Lab	Dump Line				
8/25/2022 11:55	SS11@3'	0.0	HC Staining	No Odor	Yes	Lab	Wellhead				
8/25/2022 12:00	SS12@3'	0.0	HC Staining	No Odor	Yes	Lab	Flowline				
8/25/2022 12:05	SS13@4'	0.1	No Staining	No Odor	Yes	Lab	Other:				
8/25/2022 11:30	SP-CS01@3"	-	No Staining	No Odor	Yes	Lab	Soil Loads Removed				
8/25/2022 12:40	BG01@1'	7.2	No Staining	No Odor	Yes	Lab	IMPACTED SOIL IDENTIFIED?				
8/25/2022 12:45	BG02@2'	7.0	No Staining	No Odor	Yes	Lab	ESTIMATED VOLUME OF IMPACTS:				
8/25/2022 13:03	BG03@4'	7.3	No Staining	No Odor	Yes	Lab	Date		Number	CY	
							Total Removed		0	0	
							Disposal Facility:				
							Groundwater Recovery				
							DATE GW ENCOUNTERED:		DEPTH:		
							GROUNDWATER IN CONTACT WITH IMPACTED SOIL?				
							LNAPL OR SHEEN OBSERVED ON GW?				
GROUNDWATER SAMPLING							Date		BBLS		
Date/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?					
							Total Removed		0		
							Disposal Facility:				

Photographic Log




Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions: On the north side of separator				Notes/Conditions: On the north side of separator			


Photographic Log

									
Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:			
Material:		Volume:		Material:		Volume:		Contents:	
Notes/Conditions: Underneath separator					Notes/Conditions: On the south side of separator				


Photographic Log

									
Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:			
Material:		Volume:		Material:		Volume:		Contents:	
Notes/Conditions: On the south side of separator					Notes/Conditions: On the south side of separator				



Photographic Log

							
Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions: Site location				Notes/Conditions: Taken facing west			

Photographic Log

							
Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions: Taken facing west				Notes/Conditions: Taken facing east			

Photographic Log

											
Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:					
Material:		Volume:		Contents:		Material:		Volume:		Contents:	
Notes/Conditions: Overhead of BG01,2,3						Notes/Conditions: Taken facing north					

FIGURES

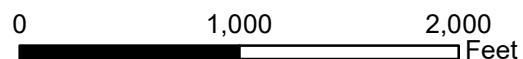
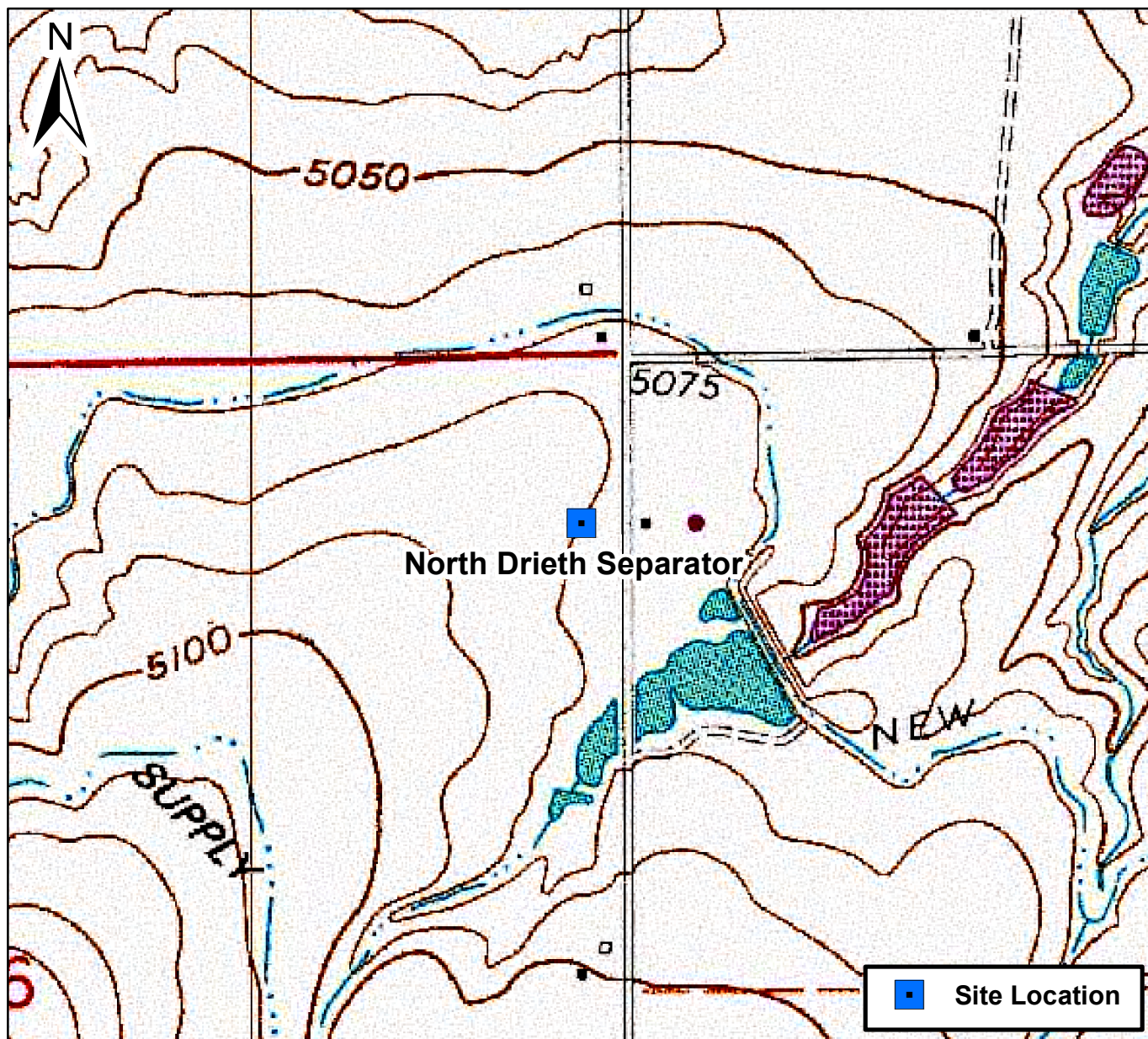


Figure 1

Site Location Map
North Drieth Separator
NENE Sec. 6-T3N-R68W
Weld County, Colorado





DATE:	October 2022
DESIGNED BY:	S. Vogt
DRAWN BY:	L. Reed



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

Crestone Peak Resources Operating, LLC
North Drieth Separator
NENE Sec. 6-T3N-R68W
Weld County, Colorado

Soil Sample Location Map

Figure
2

TABLES

TABLE 1
NORTH DRIETH SEPARATOR
SOIL SAMPLE LOCATIONS
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Date	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
SS01@1'	06/24/2022	2.6	HC Staining	No Odor	40.260204	-105.037265	1.5	Y
SS02@1'	06/24/2022	1.5	No Staining	No Odor	40.260207	-105.037304	1.6	Y
SS03@1'	06/24/2022	0.8	HC Staining	No Odor	40.260176	-105.037307	1.4	Y
SS04@2'	06/24/2022	3.5	HC Staining	No Odor	40.260172	-105.037319	1.4	Y
SS05@1.5'	06/24/2022	32.3	HC Staining	No Odor	40.260176	-105.037280	1.4	Y
SS06@1'	06/24/2022	443.2	HC Staining	Slight HC Odor	40.260171	-105.037298	1.7	Y
SS07@3'	08/25/2022	2.3	No Staining	No Odor	40.260186	-105.037350	NA	Y
SS08@3'	08/25/2022	5.5	No Staining	No Odor	40.260206	-105.037320	NA	Y
SS09@3'	08/25/2022	0.0	No Staining	No Odor	40.260202	-105.037280	NA	Y
SS10@3'	08/25/2022	0.0	No Staining	No Odor	40.260181	-105.037241	NA	Y
SS11@3'	08/25/2022	0.0	HC Staining	No Odor	40.260173	-105.037273	NA	Y
SS12@3'	08/25/2022	0.0	HC Staining	No Odor	40.260166	-105.037318	NA	Y
SS13@4'	08/25/2022	0.1	No Staining	No Odor	40.260189	-105.037293	NA	Y
SP-CS01@3"	08/25/2022	-	No Staining	No Odor	40.260266	-105.036928	NA	Y
BG01@1'	08/25/2022	7.2	No Staining	No Odor	40.259801	-105.037334	NA	Y
BG02@2'	08/25/2022	7.0	No Staining	No Odor	40.259799	-105.037330	NA	Y
BG03@4'	08/25/2022	7.3	No Staining	No Odor	40.259798	-105.037328	NA	Y

Notes:

PID = Photoionization detector

ppm = Parts per million

HC = Hydrocarbon

GPS = Global positioning system

PDOP = Position dilution of precision

NA = Not Applicable

TABLE 2
NORTH DRIETH SEPARATOR
SOIL ANALYTICAL DATA - VOCs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC standards for soil (mg/kg) ⁽²⁾		1.2	490	5.8	58	2	500			30	27
SS01@1'	06/24/2022	<0.00200	<0.00200	<0.00200	<0.00200	0.000955	<0.200	<25.0	<100	<0.00200	<0.00200
SS02@1'	06/24/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
SS03@1'	06/24/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
SS04@2'	06/24/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
SS05@1.5'	06/24/2022	<0.00200	<0.00200	<0.00200	<0.00200	0.00704	<0.200	117	<100	0.00392	<0.00200
SS06@1'	06/24/2022	<0.00200	<0.00200	<0.00200	0.0101	0.0277	1.38	1,030	512	<0.00200	0.0270
SS07@3'	08/25/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
SS08@3'	08/25/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
SS09@3'	08/25/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
SS10@3'	08/25/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
SS11@3'	08/25/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
SS12@3'	08/25/2022	<0.00200	<0.00200	<0.00200	<0.00200	0.00107	<0.200	<25.0	<100	<0.00200	<0.00200
SS13@3'	08/25/2022	<0.00200	<0.00200	<0.00200	<0.00200	0.00194	<0.200	<25.0	<100	<0.00200	<0.00200
SP-CS01@3"	08/25/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	<0.00200	<0.00200

Notes:

Per the approved COGCC Form 19-Supplemental (COGCC Document # 403093347), COGCC approved the use Table 915-1 Residential Soil Screening Level Concentrations.

VOCs = Volatile Organic Compounds

(1) Standards for soil are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

(2) Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = Milligrams per kilogram

TVPH - GRO = Total volatile petroleum hydrocarbons - gasoline range organics

TEPH - DRO = Total extractable petroleum hydrocarbons - diesel range organics

TEPH - ORO = Total extractable petroleum hydrocarbons - oil range organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

TABLE 2
NORTH DRIETH SEPARATOR
SOIL ANALYTICAL DATA - VOCs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087

BOLD = Analytical result is in exceedance of COGCC Table 915-1 soil standards

TABLE 3
NORTH DRIETH SEPARATOR
SOIL ANALYTICAL DATA - PAHs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
COGCC standards for soil (mg/kg) ⁽²⁾		360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
SS01@1'	06/24/2022	0.00197	0.000543	0.000545	<0.00067	0.000664	0.000591	0.00466	<0.00067	0.00114	0.00845	<0.00067	0.0082	0.0104	0.00318
SS02@1'	06/24/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00177	<0.00067	<0.00067	0.00184	<0.00067	<0.00067	<0.00067	0.000864
SS03@1'	06/24/2022	0.00066	<0.00067	<0.00067	0.000587	0.00105	0.00109	0.00266	<0.00067	0.0012	0.0028	<0.00067	0.00275	0.00247	0.00325
SS04@2'	06/24/2022	0.00126	0.000908	<0.00067	<0.00067	0.000621	0.000533	0.00395	<0.00067	0.000673	0.00822	<0.00067	0.00787	0.00392	0.00228
SS05@1.5'	06/24/2022	0.00648	0.00154	0.00294	0.00118	0.000742	0.000942	0.0135	<0.00067	0.000998	0.034	<0.00067	0.0485	0.0707	0.00563
SS06@1'	06/24/2022	0.0617	0.0142	0.0182	<0.0134	<0.0134	<0.0134	0.0955	<0.0134	<0.0134	0.297	<0.0134	0.607	0.158	0.0486
SS07@3'	08/25/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS08@3'	08/25/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS09@3'	08/25/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS10@3'	08/25/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS11@3'	08/25/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS12@3'	08/25/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00109	0.0018	<0.00067
SS13@3'	08/25/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.002	0.00328	<0.00067

Notes:

Per the approved COGCC Form 19-Supplemental (COGCC Document # 403093347), COGCC approved the use Table 915-1 Residential Soil Screening Level Concentrations.

PAHs = Polycyclic Aromatic Hydrocarbons

(1) Standards for soil are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

(2) Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = Milligrams per kilogram

Benzo(a)A = Benzo(a)anthracene

Benzo(b)F = Benzo(b)fluoranthene

Benzo(k)F = Benzo(k)fluoranthene

Benzo(a)P = Benzo(a)pyrene

D (a,h) A = Dibenz(a,h)anthracene

1,2,3-CD = Indeno(1,2,3-cd)pyrene

1-M = 1-Methylnaphthalene

TABLE 3
NORTH DRIETH SEPARATOR
SOIL ANALYTICAL DATA - PAHs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3

2-M = 2-Methylnaphthalene

BOLD = Analytical result is in exceedance of COGCC Table 915-1 soil standards

TABLE 4
NORTH DRIETH SEPARATOR
SOIL ANALYTICAL DATA - METALS
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC standards for soil (mg/kg) ⁽²⁾		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
SS01@1'	06/24/2022	2.69*	48.8	0.0570	<0.244	5.06	4.80	5.26	0.118	0.0195	15.7
SS02@1'	06/24/2022	4.45*	71.5	0.215	<0.249	10.6	7.62	7.65	0.126	0.0142	23.3
SS03@1'	06/24/2022	4.06*	58.5	0.0556	<0.245	7.11	8.28	9.29	0.174	0.0384	26.6
SS04@2'	06/24/2022	2.710*	59.3	0.0545	<0.251	6.80	6.50	6.63	0.173	0.0237	20
SS05@1.5'	06/24/2022	2.560*	52.0	0.0565	<0.247	5.33	5.13	6.52	0.108	0.0164	19.1
SS06@1'	06/24/2022	3.510*	46.5	0.0588	<0.244	6.91	7.15	7.85	0.152	0.0311	22.1
SS07@3'	08/25/2022	6.81*	136	0.265	<5	11.6	13.4	13.9	0.339	<0.0764	<76.4
SS08@3'	08/25/2022	6.39*	154	0.274	<5	10.3	13.9	14.2	0.314	<0.0787	<78.7
SS09@3'	08/25/2022	3.66*	77.0	0.145	<0.505	<9.05	<9.05	<9.05	0.185	<0.0905	<90.5
SS10@3'	08/25/2022	2.49*	35.6	<0.0924	<2.52	<9.24	<9.24	<9.24	0.127	<0.0924	<92.4
SS11@3'	08/25/2022	2.24*	48.7	<0.0751	<0.501	<7.51	<7.51	<7.51	0.113	<0.0751	<75.1
SS12@3'	08/25/2022	2.57*	56.8	<0.0728	<0.506	<7.28	<7.28	<7.28	0.0880	<0.0728	<72.8
SS13@3'	08/25/2022	6.43*	152	0.233	<5.09	13.2	11.9	16.3	0.257	<0.0772	<77.2
BACKGROUND											
BG01@1'	08/25/2022	6.52	134	0.240	<1.01	14.7	12.5	16.5	0.300	<0.0970	<97.0
BG02@2'	08/25/2022	7.07	173	0.278	<1.03	15.0	14.4	17.7	0.347	<0.0991	<99.1
BG03@4'	08/25/2022	5.36	133	0.224	<1.04	13.2	11.4	14.8	0.282	<0.0980	<98.0

Notes:

Per the approved COGCC Form 19-Supplemental (COGCC Document # 403093347), COGCC approved the use Table 915-1 Residential Soil Screening Level Concentrations.

(1) Standards for soil are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

(2) Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory minimum detection limit

mg/kg = Milligrams per kilogram

BOLD = Analytical result is in exceedance of COGCC Table 915-1 soil standards

TABLE 4
NORTH DRIETH SEPARATOR
SOIL ANALYTICAL DATA - METALS
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370

Italics = Laboratory minimum detection limit exceeds the COGCC Table 915-1 standard

NA = Constituent not analyzed

* Result exceeded the COGCC Table 915-1 standard, but was within range of site-specific background concentrations

TABLE 5
NORTH DRIETH SEPARATOR
SOIL ANALYTICAL DATA - SOIL RECLAMATION
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
COGCC standards for soil (mg/kg) ⁽¹⁾		6 - 8.3	< 6	< 4	2
SS01@1'	06/24/2022	8.03	2.09	1.90	0.150
SS02@1'	06/24/2022	8.01	0.973	1.05	<0.100
SS03@1'	06/24/2022	7.97	1.51	2.50	0.260
SS04@2'	06/24/2022	8.27	0.782	0.474	<0.100
SS05@1.5'	06/24/2022	8.21	0.906	0.575	<0.100
SS06@1'	06/24/2022	8.03	3.10	1.73	0.184
SS07@3'	08/25/2022	8.33*	1.01	1.05	0.515
SS08@3'	08/25/2022	8.22	0.965	0.523	0.391
SS09@3'	08/25/2022	8.27	0.820	0.574	0.560
SS10@3'	08/25/2022	8.17	0.405	0.196	<0.101
SS11@3'	08/25/2022	8.29	1.76	0.412	0.107
SS12@3'	08/25/2022	8.04	2.36	1.05	<0.100
SS13@3'	08/25/2022	8.21	0.611	0.648	0.348
BACKGROUND					
BG01@1'	08/25/2022	8.21	0.808	0.687	0.544
BG02@2'	08/25/2022	8.39	0.743	0.554	0.502
BG03@4'	08/25/2022	8.32	0.616	0.461	0.457

Notes:

(1) Standards for soil are taken from COGCC Table 915-1, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mmhos/cm = Millimhos per centimeter

mg/L = Milligrams per liter

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

BOLD = Analytical result is in exceedance of COGCC Table 915-1 soil standards

* Result exceeded the COGCC Table 915-1 standard, but was within background levels

LABORATORY ANALYTICAL DATA

July 12, 2022

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - Civitas - Drieth 6H-A368

Project Number - [none]

Attached are your analytical results for Civitas - Drieth 6H-A368 received by Origins Laboratory, Inc. June 24, 2022. This project is associated with Origins project number Y206637-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@1'	Y206637-01	Soil	June 24, 2022 10:45	06/24/2022 13:55
SS02@1'	Y206637-02	Soil	June 24, 2022 10:50	06/24/2022 13:55
SS03@1'	Y206637-03	Soil	June 24, 2022 10:55	06/24/2022 13:55
SS04@2'	Y206637-04	Soil	June 24, 2022 11:00	06/24/2022 13:55
SS05@1.5'	Y206637-05	Soil	June 24, 2022 11:05	06/24/2022 13:55
SS06@1'	Y206637-06	Soil	June 24, 2022 11:10	06/24/2022 13:55

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

www.originslaboratory.com

4200037

ORIGINS LABORATORY, INC

Client: CIVITAS/Tasman
Address: 6855 W 119th St
Broomfield CO
Telephone Number: 303-607-8869
Email Address: mjahn@tasman-geo.com

Project Manager: Mike Jahn
Project Name: Drieth 6H-A368
Project Number: CC-P1206 NM:8529.302
Samples Collected By: SK + LM

page 1 of 1

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis Table		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa	Other	Full Table	
SS0101	6-24-22	1045	2	X				X					1
SS0201		1050											2
SS0301		1056											3
SS0402		1100											4
SS0501.5		1105											5
SS0601		1110											6
													7
													8
													9
													10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
[Signature]	6-24-22	1312	Mike Jahn	6-24-22	1312	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
[Signature]	6-24-22	1355	SK	6-24-22	1355	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

Date Results Needed

Temp Received: 9.8

Origins Laboratory, Inc.

J. Bynon

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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

Origins Laboratory

Sample Receipt Checklist

F-012207-01-R1
Effective Date: 01/09/12

Origins Work Order: 4200037

Client: Tasman/Civitas

Client Project ID: Drieth

Checklist Completed by: JTB

Shipped Via: HD

(WPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6-26-22

Airbill #: N/A

Matrix(s) Received: (Check all that apply) ☒ Soil/Solid

☐ Water

☐ Other:

Cooler Number/Temperature: 1 9.8 °C

1 °C

1 °C

(Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Same day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JTB

Date/Time Reviewed 6/28/22

Origins Laboratory, Inc.

J. Bynon

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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS01@1'

6/24/2022 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.150	0.100	mg/L	1	B2F2806	06/28/2022	06/29/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2F2915	06/29/2022	07/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.4 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F2808	06/28/2022	06/28/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS01@1'

6/24/2022 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.7 %	70-130	B2F28 08	06/28/2022	06/28/2022
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	9.09	0.499	meq/L	10	[CALC]	06/28/2022	06/29/2022
Magnesium	5.20	0.823	"	"	"	"	"
Sodium	5.58	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0082	0.000364	0.00067	mg/Kg	1	L624074	06/29/2022	07/01/2022	
2-Methylnaphthalene	0.0104	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.00197	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.000543	0.000334	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	0.000545	0.000493	0.00067	"	"	"	"	"	J
Benzo(a)pyrene	0.000591	0.000468	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000664	0.000437	0.00067	"	"	"	"	"	J
Chrysene	0.00466	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00114	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00845	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS01@1'

6/24/2022 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206637-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L624074	06/29/2022	07/01/2022
Naphthalene	0.000955	0.000484	0.00067	"	"	"	"	"
Pyrene	0.00318	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.9 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	72.1 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	71.2 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.03			pH Units	1	B2F2812	06/28/2022	06/29/2022
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SAR by 20B Saturated Paste

SAR	2.09			SAR	1	B2F2807	06/28/2022	06/29/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.90		0.00500	mmhos/cm	1	B2F2812	06/28/2022	06/29/2022
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Table 915 metals by EPA 6020B

Arsenic	2.69		0.00100	mg/kg	1	B2F2724	06/27/2022	06/27/2022
Barium	48.8		0.0100	"	"	"	"	"

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS01@1'

6/24/2022 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-01 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.0570	0.00100	mg/kg	1	B2F2724	06/27/2022	06/27/2022
Copper	5.06	0.0100	"	"	"	"	"
Lead	4.80	0.00100	"	"	"	"	"
Nickel	5.26	0.00100	"	"	"	"	"
Selenium	0.118	0.00100	"	"	"	"	"
Silver	0.0195	0.00100	"	"	"	"	"
Zinc	15.7	0.0100	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L624629	06/24/2022	07/01/2022
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Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS02@1'

6/24/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2F2806	06/28/2022	06/29/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2F2915	06/29/2022	07/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.1 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F2808	06/28/2022	06/28/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS02@1'

6/24/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.6 %	70-130	B2F28 08	06/28/2022	06/28/2022
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	4.31	0.499	meq/L	10	[CALC]	06/28/2022	06/29/2022
Magnesium	2.47	0.823	"	"	"	"	"
Sodium	1.79	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L624074	06/29/2022	07/01/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00177	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS02@1'

6/24/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206637-02 (Soil)

PAH by 8270D SIM

Fluorene	0.00184	0.000286	0.00067	mg/Kg	1	L624074	06/29/2022	07/01/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	0.000864	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	59.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	72.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.01			pH Units	1	B2F2812	06/28/2022	06/29/2022	
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SAR by 20B Saturated Paste

SAR	0.973			SAR	1	B2F2807	06/28/2022	06/29/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.05		0.00500	mmhos/cm	1	B2F2812	06/28/2022	06/29/2022	
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Table 915 metals by EPA 6020B

Arsenic	4.45		0.00100	mg/kg	1	B2F2724	06/27/2022	06/27/2022	
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Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS02@1'

6/24/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-02 (Soil)

Table 915 metals by EPA 6020B

Barium	71.5	0.0100	mg/kg	1	B2F2724	06/27/2022	06/27/2022
Cadmium	0.215	0.00100	"	"	"	"	"
Copper	10.6	0.0100	"	"	"	"	"
Lead	7.62	0.00100	"	"	"	"	"
Nickel	7.65	0.00100	"	"	"	"	"
Selenium	0.126	0.00100	"	"	"	"	"
Silver	0.0142	0.00100	"	"	"	"	"
Zinc	23.3	0.0100	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L624462	06/24/2022	06/30/2022
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Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS03@1'

6/24/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.260	0.100	mg/L	1	B2F2806	06/28/2022	06/29/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2F2915	06/29/2022	07/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.6 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F2808	06/28/2022	06/28/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS03@1'

6/24/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	92.7 %	70-130	B2F28 08	06/28/2022	06/28/2022
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	16.2	0.499	meq/L	10	[CALC]	06/28/2022	06/29/2022
Magnesium	9.09	0.823	"	"	"	"	"
Sodium	5.38	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00275	0.000364	0.00067	mg/Kg	1	L624074	06/29/2022	07/01/2022
2-Methylnaphthalene	0.00247	0.000645	0.00067	"	"	"	"	"
Acenaphthene	0.00066	0.000304	0.00067	"	"	"	"	J
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00109	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.000587	0.000585	0.00067	"	"	"	"	J
Benzo(k)fluoranthene	0.00105	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00266	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.0012	0.000394	0.00067	"	"	"	"	"
Fluorene	0.0028	0.000286	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS03@1'

6/24/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206637-03 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L624074	06/29/2022	07/01/2022
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	0.00325	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	71.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	70.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.97	pH Units	1	B2F2812	06/28/2022	06/29/2022
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SAR by 20B Saturated Paste

SAR	1.51	SAR	1	B2F2807	06/28/2022	06/29/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.50	0.00500	mmhos/cm	1	B2F2812	06/28/2022	06/29/2022
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Table 915 metals by EPA 6020B

Arsenic	4.06	0.00100	mg/kg	1	B2F2724	06/27/2022	06/27/2022
Barium	58.5	0.0100	"	"	"	"	"

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS03@1'

6/24/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-03 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.0556	0.00100	mg/kg	1	B2F2724	06/27/2022	06/27/2022
Copper	7.11	0.0100	"	"	"	"	"
Lead	8.28	0.00100	"	"	"	"	"
Nickel	9.29	0.00100	"	"	"	"	"
Selenium	0.174	0.00100	"	"	"	"	"
Silver	0.0384	0.00100	"	"	"	"	"
Zinc	26.6	0.0100	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L624462	06/24/2022	06/30/2022
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Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS04@2'

6/24/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2F2806	06/28/2022	06/29/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2F2915	06/29/2022	07/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.2 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F2808	06/28/2022	06/29/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS04@2'

6/24/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206637-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	90.9 %	70-130	B2F28 08	06/28/2022	06/29/2022
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.20	0.499	meq/L	10	[CALC]	06/28/2022	06/29/2022
Magnesium	0.925	0.823	"	"	"	"	"
Sodium	0.978	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00787	0.000364	0.00067	mg/Kg	1	L624074	06/29/2022	07/01/2022
2-Methylnaphthalene	0.00392	0.000645	0.00067	"	"	"	"	"
Acenaphthene	0.00126	0.000304	0.00067	"	"	"	"	"
Anthracene	0.000908	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.000533	0.000468	0.00067	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.000621	0.000437	0.00067	"	"	"	"	J
Chrysene	0.00395	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000673	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00822	0.000286	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS04@2'

6/24/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206637-04 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L624074	06/29/2022	07/01/2022
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	0.00228	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	62.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	75.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	75.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.27	pH Units	1	B2F2812	06/28/2022	06/29/2022
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SAR by 20B Saturated Paste

SAR	0.782	SAR	1	B2F2807	06/28/2022	06/29/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.474	0.00500	mmhos/cm	1	B2F2812	06/28/2022	06/29/2022
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Table 915 metals by EPA 6020B

Arsenic	2.71	0.00100	mg/kg	1	B2F2724	06/27/2022	06/27/2022
Barium	59.3	0.0100	"	"	"	"	"

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS04@2'

6/24/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-04 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.0545	0.00100	mg/kg	1	B2F2724	06/27/2022	06/27/2022
Copper	6.80	0.0100	"	"	"	"	"
Lead	6.50	0.00100	"	"	"	"	"
Nickel	6.63	0.00100	"	"	"	"	"
Selenium	0.173	0.00100	"	"	"	"	"
Silver	0.0237	0.00100	"	"	"	"	"
Zinc	20.0	0.0100	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.251	0.515	mg/Kg	1	L624462	06/24/2022	06/30/2022
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Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS05@1.5'

6/24/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2F2806	06/28/2022	06/29/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	117	25.0	mg/kg	1	B2F2915	06/29/2022	07/07/2022	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.7 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00392	0.00200	mg/kg	1	B2F2808	06/28/2022	06/29/2022	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	92.3 %	70-130			"	"	"	

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS05@1.5'

6/24/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	104 %	70-130	B2F28 08	06/28/2022	06/29/2022
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Metals by Saturated Paste by EPA 6010

Calcium	2.26	0.499	meq/L	10	[CALC]	06/28/2022	06/29/2022
Magnesium	1.39	0.823	"	"	"	"	"
Sodium	1.22	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0485	0.000364	0.00067	mg/Kg	1	L624074	06/29/2022	07/01/2022
2-Methylnaphthalene	0.0707	0.000645	0.00067	"	"	"	"	"
Acenaphthene	0.00648	0.000304	0.00067	"	"	"	"	"
Anthracene	0.00154	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00294	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.000942	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00118	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.000742	0.000437	0.00067	"	"	"	"	"
Chrysene	0.0135	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000998	0.000394	0.00067	"	"	"	"	"
Fluorene	0.034	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS05@1.5'

6/24/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206637-05 (Soil)

PAH by 8270D SIM

Naphthalene	0.00704	0.000484	0.00067	mg/Kg	1	L624074	06/29/2022	07/01/2022	
Pyrene	0.00563	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	62.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	75.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	77.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.21			pH Units	1	B2F2812	06/28/2022	06/29/2022	
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SAR by 20B Saturated Paste

SAR	0.906			SAR	1	B2F2807	06/28/2022	06/29/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.575		0.00500	mmhos/cm	1	B2F2812	06/28/2022	06/29/2022	
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Table 915 metals by EPA 6020B

Arsenic	2.56		0.00100	mg/kg	1	B2F2724	06/27/2022	06/27/2022	
Barium	52.0		0.0100	"	"	"	"	"	
Cadmium	0.0565		0.00100	"	"	"	"	"	

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS05@1.5'

6/24/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-05 (Soil)

Table 915 metals by EPA 6020B

Copper	5.33	0.0100	mg/kg	1	B2F2724	06/27/2022	06/27/2022
Lead	5.13	0.00100	"	"	"	"	"
Nickel	6.52	0.00100	"	"	"	"	"
Selenium	0.108	0.00100	"	"	"	"	"
Silver	0.0164	0.00100	"	"	"	"	"
Zinc	19.1	0.0100	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L624462	06/24/2022	06/30/2022
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Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS06@1'

6/24/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.184	0.100	mg/L	1	B2F2806	06/28/2022	06/29/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	1030	25.0	mg/kg	1	B2F2915	06/29/2022	07/07/2022
Residual Range Organics (C28-C40)	512	100	"	"	"	"	"

Surrogate: o-Terphenyl	108 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F2808	06/28/2022	06/29/2022	U
1,3,5-Trimethylbenzene	0.0270	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.0101	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.38	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130	"	"	"
Surrogate: Toluene-d8	92.1 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS06@1'

6/24/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	106 %	70-130	B2F28 08	06/28/2022	06/29/2022
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Metals by Saturated Paste by EPA 6010

Calcium	6.11	0.499	meq/L	10	[CALC]	06/28/2022	06/29/2022
Magnesium	3.37	0.823	"	"	"	"	"
Sodium	6.76	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.607	0.00728	0.0134	mg/Kg	20	L624074	06/29/2022	07/01/2022
2-Methylnaphthalene	0.158	0.0129	0.0134	"	"	"	"	"
Acenaphthene	0.0617	0.00608	0.0134	"	"	"	"	"
Anthracene	0.0142	0.00668	0.0134	"	"	"	"	"
Benzo(a)anthracene	0.0182	0.00986	0.0134	"	"	"	"	"
Benzo(a)pyrene	ND	0.00936	0.0134	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.0117	0.0134	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00874	0.0134	"	"	"	"	"
Chrysene	0.0955	0.0125	0.0134	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0123	0.0134	"	"	"	"	"
Fluoranthene	ND	0.00788	0.0134	"	"	"	"	"
Fluorene	0.297	0.00572	0.0134	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.0125	0.0134	"	"	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS06@1'

6/24/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206637-06 (Soil)

PAH by 8270D SIM

Naphthalene	0.0277	0.00968	0.0134	mg/Kg	20	L624074	06/29/2022	07/01/2022
Pyrene	0.0486	0.0129	0.0134	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	60.2 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	71.1 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	86.1 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.03			pH Units	1	B2F2812	06/28/2022	06/29/2022
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SAR by 20B Saturated Paste

SAR	3.10			SAR	1	B2F2807	06/28/2022	06/29/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.73		0.00500	mmhos/cm	1	B2F2812	06/28/2022	06/29/2022
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Table 915 metals by EPA 6020B

Arsenic	3.51		0.00100	mg/kg	1	B2F2724	06/27/2022	06/27/2022
Barium	46.5		0.0100	"	"	"	"	"
Cadmium	0.0588		0.00100	"	"	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

SS06@1'

6/24/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206637-06 (Soil)

Table 915 metals by EPA 6020B

Copper	6.91	0.0100	mg/kg	1	B2F2724	06/27/2022	06/27/2022
Lead	7.15	0.00100	"	"	"	"	"
Nickel	7.85	0.00100	"	"	"	"	"
Selenium	0.152	0.00100	"	"	"	"	"
Silver	0.0311	0.00100	"	"	"	"	"
Zinc	22.1	0.0100	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L624462	06/24/2022	06/30/2022
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F2808 - EPA 5030 (soil)										
Blank (B2F2808-BLK1)					Prepared: 06/28/2022 Analyzed: 06/28/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F2808 - EPA 5030 (soil)										
LCS (B2F2808-BS1)					Prepared: 06/28/2022 Analyzed: 06/28/2022					
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.0976	0.00200	"	0.100		97.6	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.111	0.0100	"	0.100		111	70-130			
Toluene	0.0983	0.00200	"	0.100		98.3	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.214	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F2808 - EPA 5030 (soil)										
Matrix Spike (B2F2808-MS1)		Source: Y206630-01			Prepared: 06/28/2022 Analyzed: 06/28/2022					
1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100	ND	116	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130			
Benzene	0.0961	0.00200	"	0.100	ND	96.1	70-130			
Ethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130			
Naphthalene	0.108	0.0100	"	0.100	0.00134	106	70-130			
Toluene	0.0973	0.00200	"	0.100	ND	97.3	70-130			
o-Xylene	0.113	0.00200	"	0.100	ND	113	70-130			
m,p-Xylene	0.229	0.00400	"	0.200	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F2808 - EPA 5030 (soil)										
Matrix Spike Dup (B2F2808-MSD1)		Source: Y206630-01			Prepared: 06/28/2022 Analyzed: 06/28/2022					
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130	7.13	20	
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130	7.02	20	
Benzene	0.0922	0.00200	"	0.100	ND	92.2	70-130	4.21	20	
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	6.37	20	
Naphthalene	0.106	0.0100	"	0.100	0.00134	104	70-130	1.73	20	
Toluene	0.0913	0.00200	"	0.100	ND	91.3	70-130	6.41	20	
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130	7.57	20	
m,p-Xylene	0.214	0.00400	"	0.200	ND	107	70-130	6.94	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F2915 - EPA 3580										
Blank (B2F2915-BLK1)					Prepared: 06/29/2022 Analyzed: 07/07/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		101	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2915 - EPA 3580

LCS (B2F2915-BS1)

Prepared: 06/29/2022 Analyzed: 07/07/2022

Diesel (C10-C28)	1200	50.0	mg/kg	1000		120	70-130			
Residual Range Organics (C28-C40)	1210	200	"	1000		121	70-130			
Surrogate: o-Terphenyl	59		"	49.8		118	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2915 - EPA 3580

Matrix Spike (B2F2915-MS1)		Source: Y206630-01			Prepared: 06/29/2022 Analyzed: 07/07/2022					
Diesel (C10-C28)	940	50.0	mg/kg	1000	ND	94.0	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000	ND	111	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.4	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F2915 - EPA 3580										
Matrix Spike Dup (B2F2915-MSD1)										
					Source: Y206630-01					
					Prepared: 06/29/2022 Analyzed: 07/07/2022					
Diesel (C10-C28)	887	50.0	mg/kg	1000	ND	88.7	70-130	5.85	35	
Residual Range Organics (C28-C40)	997	200	"	1000	ND	99.7	70-130	11.1	35	
Surrogate: o-Terphenyl	42		"	49.8		83.6	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by SM 3500 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2724 - Default Prep Metals

Blank (B2F2724-BLK1)

Prepared: 06/27/2022 Analyzed: 06/27/2022

Arsenic	ND	0.00100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.00100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.00100	"							U
Nickel	ND	0.00100	"							U
Selenium	ND	0.00100	"							U
Silver	ND	0.00100	"							U
Zinc	ND	0.0100	"							U

LCS (B2F2724-BS1)

Prepared: 06/27/2022 Analyzed: 06/27/2022

Arsenic	0.0472	0.00100	mg/kg	0.0500		94.3	80-120
Barium	4.92	0.0100	"	5.00		98.5	80-120
Cadmium	0.0503	0.00100	"	0.0500		101	80-120
Copper	0.472	0.0100	"	0.500		94.5	80-120
Lead	0.0493	0.00100	"	0.0500		98.6	80-120
Nickel	0.0463	0.00100	"	0.0500		92.6	80-120
Selenium	0.0490	0.00100	"	0.0500		97.9	80-120
Silver	0.0516	0.00100	"	0.0500		103	80-120
Zinc	0.475	0.0100	"	0.500		95.1	80-120

Matrix Spike (B2F2724-MS1)

Source: Y206630-10

Prepared: 06/27/2022 Analyzed: 06/27/2022

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

Metals by SM 3500 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2724 - Default Prep Metals

Matrix Spike (B2F2724-MS1)		Source: Y206630-10			Prepared: 06/27/2022 Analyzed: 06/27/2022					
Arsenic	6.44	0.00100	mg/kg	5.21	5.56	16.9	75-125			QM-07
Barium	565	0.0100	"	521	64.6	96.0	75-125			
Cadmium	5.03	0.00100	"	5.21	0.0879	95.0	75-125			
Copper	54.1	0.0100	"	52.1	5.40	93.5	75-125			
Lead	7.82	0.00100	"	5.21	3.86	76.0	75-125			
Nickel	7.79	0.00100	"	5.21	4.78	57.9	75-125			QM-07
Selenium	5.53	0.00100	"	5.21	0.166	103	75-125			
Silver	5.38	0.00100	"	5.21	0.0168	103	75-125			
Zinc	47.6	0.0100	"	52.1	13.2	66.0	75-125			QM-07
Matrix Spike Dup (B2F2724-MSD1)		Source: Y206630-10			Prepared: 06/27/2022 Analyzed: 06/27/2022					
Arsenic	6.00	0.00100	mg/kg	4.84	5.56	9.23	75-125	6.96	20	QM-07
Barium	537	0.0100	"	484	64.6	97.6	75-125	4.96	20	
Cadmium	4.77	0.00100	"	4.84	0.0879	96.6	75-125	5.44	20	
Copper	51.3	0.0100	"	48.4	5.40	94.7	75-125	5.36	20	
Lead	7.58	0.00100	"	4.84	3.86	76.8	75-125	3.10	20	
Nickel	7.86	0.00100	"	4.84	4.78	63.7	75-125	0.919	20	QM-07
Selenium	4.72	0.00100	"	4.84	0.166	94.1	75-125	15.8	20	
Silver	4.94	0.00100	"	4.84	0.0168	102	75-125	8.42	20	
Zinc	47.2	0.0100	"	48.4	13.2	70.1	75-125	0.907	20	QM-07

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F2812 - NO PREP										
Blank (B2F2812-BLK1)					Prepared: 06/28/2022 Analyzed: 06/29/2022					
pH	0.00		pH Units							
Specific Conductance (EC)	0.00200	0.00500	mmhos/cm							
Duplicate (B2F2812-DUP1)					Source: Y206630-07 Prepared: 06/28/2022 Analyzed: 06/29/2022					
Specific Conductance (EC)	0.638	0.00500	mmhos/cm		0.559			13.2	25	
pH	8.10		pH Units		8.13			0.370	25	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L624074 - 3550B

MSD (L 84025-MSD-L624074)		Source: Y206637-05			Prepared: 06/29/2022 Analyzed: 07/01/2022					
Benzo(a)anthracene	0.107	0.000493	mg/Kg	0.162	0.00294	64.2	30-130	9.7	30	
Pyrene	0.104	0.000643	"	0.162	0.00563	60.7	30-130	14.2	30	
Naphthalene	0.104	0.000484	"	0.162	0.00704	59.8	30-130	7.4	30	
Indeno(1,2,3-cd)pyrene	0.0682	0.000627	"	0.162	84025	42	30-130	3.2	30	
Fluorene	0.141	0.000286	"	0.162	0.034	66	30-130	4.8	30	
Fluoranthene	0.105	0.000394	"	0.162	0.000998	64.1	30-130	14.9	30	
Dibenz(a,h)anthracene	0.114	0.000614	"	0.162	84025	70.3	30-130	0.8	30	
Chrysene	0.109	0.000624	"	0.162	0.0135	58.9	30-130	12	30	
Benzo(k)fluoranthene	0.0859	0.000437	"	0.162	0.000742	52.5	30-130	13.2	30	
Benzo(a)pyrene	0.117	0.000468	"	0.162	0.000942	71.6	30-130	13.5	30	
Anthracene	0.0933	0.000334	"	0.162	0.00154	56.6	30-130	12.7	30	
Acenaphthene	0.113	0.000304	"	0.162	0.00648	65.7	30-130	9.2	30	
2-Methylnaphthalene	0.167	0.000645	"	0.162	0.0707	59.4	30-130	0.6	30	
1-Methylnaphthalene	0.148	0.000364	"	0.162	0.0485	61.4	30-130	2	30	
Benzo(b)fluoranthene	0.0736	0.000585	"	0.162	0.00118	44.7	30-130	1.9	30	
Surrogate: Nitrobenzene-d5	74.7		"	0.325	255	74.7	29-110			
Surrogate: 2-Fluorobiphenyl	63		"	0.325	205	63	33-115			
Surrogate: 4-Terphenyl-d14	68.9		"	0.325	247	68.9	33-122			

MS (L 84025-MS-L624074)		Source: Y206637-05			Prepared: 06/29/2022 Analyzed: 07/01/2022					
Indeno(1,2,3-cd)pyrene	0.066	0.000627	mg/Kg	0.167	84025	39.5	30-130			
Benzo(a)pyrene	0.134	0.000468	"	0.167	0.000942	79.6	30-130			
Benzo(a)anthracene	0.118	0.000493	"	0.167	0.00294	68.8	30-130			
Anthracene	0.106	0.000334	"	0.167	0.00154	62.5	30-130			
Acenaphthene	0.124	0.000304	"	0.167	0.00648	70.3	30-130			
2-Methylnaphthalene	0.166	0.000645	"	0.167	0.0707	57	30-130			
1-Methylnaphthalene	0.151	0.000364	"	0.167	0.0485	61.3	30-130			

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L624074 - 3550B

MS (L 84025-MS-L624074)		Source: Y206637-05			Prepared: 06/29/2022 Analyzed: 07/01/2022					
Dibenz(a,h)anthracene	0.115	0.000614	mg/Kg	0.167	84025	68.8	30-130			
Fluorene	0.148	0.000286	"	0.167	0.034	68.2	30-130			
Naphthalene	0.112	0.000484	"	0.167	0.00704	62.8	30-130			
Pyrene	0.12	0.000643	"	0.167	0.00563	68.4	30-130			
Benzo(k)fluoranthene	0.0981	0.000437	"	0.167	0.000742	58.2	30-130			
Chrysene	0.123	0.000624	"	0.167	0.0135	65.5	30-130			
Benzo(b)fluoranthene	0.0722	0.000585	"	0.167	0.00118	42.5	30-130			
Fluoranthene	0.122	0.000394	"	0.167	0.000998	72.4	30-130			
Surrogate: 4-Terphenyl-d14	74.1		"	0.333	247	74.1	33-122			
Surrogate: 2-Fluorobiphenyl	63.9		"	0.333	205	63.9	33-115			
Surrogate: Nitrobenzene-d5	78.3		"	0.333	255	78.3	29-110			

LCS (LCS-L624074)

Prepared: 06/29/2022 Analyzed: 07/01/2022

Benzo(a)pyrene	0.159	0.000468	mg/Kg	0.167		95.2	30-130
Benzo(a)anthracene	0.13	0.000493	"	0.167		77.8	30-130
Naphthalene	0.128	0.000484	"	0.167		76.6	30-130
Benzo(k)fluoranthene	0.146	0.000437	"	0.167		87.4	30-130
Fluorene	0.152	0.000286	"	0.167		91	30-130
Fluoranthene	0.154	0.000394	"	0.167		92.2	30-130
Dibenz(a,h)anthracene	0.191	0.000614	"	0.167		114	30-130
Pyrene	0.156	0.000643	"	0.167		93.4	30-130
Benzo(b)fluoranthene	0.125	0.000585	"	0.167		74.8	30-130
Anthracene	0.146	0.000334	"	0.167		87.4	30-130
Acenaphthene	0.142	0.000304	"	0.167		85	30-130
2-Methylnaphthalene	0.131	0.000645	"	0.167		78.4	30-130
1-Methylnaphthalene	0.131	0.000364	"	0.167		78.4	30-130
Chrysene	0.135	0.000624	"	0.167		80.8	30-130

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L624074 - 3550B										
LCS (LCS-L624074)					Prepared: 06/29/2022 Analyzed: 07/01/2022					
Indeno(1,2,3-cd)pyrene	0.138	0.000627	mg/Kg	0.167		82.6	30-130			
Surrogate: Nitrobenzene-d5	72.3		"	0.333		72.3	29-110			
Surrogate: 4-Terphenyl-d14	74.1		"	0.333		74.1	33-122			
Surrogate: 2-Fluorobiphenyl	60.6		"	0.333		60.6	33-115			
LRB (LRB-L624074)					Prepared: 06/29/2022 Analyzed: 07/01/2022					
Chrysene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	82.5		"	0.333		82.5	29-110			
Surrogate: 2-Fluorobiphenyl	73.5		"	0.333		73.5	33-115			
Surrogate: 4-Terphenyl-d14	85.8		"	0.333		85.8	33-122			

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

Total Metals by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L624629 -										
DUP (L 83987-DUP)	Source: 83987				Prepared: Analyzed: 07/01/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		83987	-		0	20	
MS (L 83987-MS)	Source: 83987				Prepared: Analyzed: 07/01/2022					
Chromium, Hexavalent	3.06	0.244	mg/Kg	7.81	83987	39	75-125			*
MSD (L 83987-MSD)	Source: 83987				Prepared: Analyzed: 07/01/2022					
Chromium, Hexavalent	519	25.4	mg/Kg	677	83987	77	75-125			
LCS (LCS)					Prepared: Analyzed: 07/01/2022					
Chromium, Hexavalent	5.98	0.244	mg/Kg	8		75	75-125			
LRB (LRB)					Prepared: Analyzed: 07/01/2022					
Chromium, Hexavalent	0.291	0.5	mg/Kg				-			J

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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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

Total Metals by 7196A - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L624462 -										
DUP (L 83989-DUP)	Source: 83989				Prepared: Analyzed: 06/30/2022					
Chromium, Hexavalent	ND	2.51	mg/Kg		83989	-		0	20	
MS (L 83989-MS)	Source: 83989				Prepared: Analyzed: 06/30/2022					
Chromium, Hexavalent	ND	2.51	mg/Kg	8.25	83989	0	75-125			*
MSD (L 83989-MSD)	Source: 83989				Prepared: Analyzed: 06/30/2022					
Chromium, Hexavalent	473	24.6	mg/Kg	675	83989	70	75-125			*

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: Civitas - Drieth 6H-A368

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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.

September 21, 2022

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - Civitas - Drieth 6H-A368**Project Number - C/C: P1206 M/M: 8520.3**

Attached are your analytical results for Civitas - Drieth 6H-A368 received by Origins Laboratory, Inc. August 25, 2022. This project is associated with Origins project number Y208638-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS07@3'	Y208638-01	Soil	August 25, 2022 11:35	08/25/2022 16:07
SS08@3'	Y208638-02	Soil	August 25, 2022 11:40	08/25/2022 16:07
SS09@3'	Y208638-03	Soil	August 25, 2022 11:45	08/25/2022 16:07
SS10@3'	Y208638-04	Soil	August 25, 2022 11:50	08/25/2022 16:07
SS11@3'	Y208638-05	Soil	August 25, 2022 11:55	08/25/2022 16:07
SS12@3'	Y208638-06	Soil	August 25, 2022 12:00	08/25/2022 16:07
SS13@3'	Y208638-07	Soil	August 25, 2022 12:05	08/25/2022 16:07
SP-CS01@3"	Y208638-08	Soil	August 25, 2022 11:30	08/25/2022 16:07
BG01@1'	Y208638-09	Soil	August 25, 2022 12:40	08/25/2022 16:07
BG02@2'	Y208638-10	Soil	August 25, 2022 12:45	08/25/2022 16:07
BG03@4'	Y208638-11	Soil	August 25, 2022 13:03	08/25/2022 16:07

Origins Laboratory, Inc.



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.

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Chain of Custody Modification Request

On 8/26/2022, Sam Vogt from Eagle Environmental contacted Jordan Bynon via email regarding Y208638 requesting that TPH be added to SP-CS01@3''.

Requested modifications to the chain of custody were made by Jordan Bynon on 8/26/2022.

Chain of Custody Modification Request

On 9/14/2022, Sam Vogt from Tasman contacted Jordan Bynon via email regarding Y208638 requesting that the Table 915 Metals be added to BG01@1', BG02@2', and BG03@4.

Requested modifications to the chain of custody were made by Jordan Bynon on 9/14/2022.

Origins Laboratory, Inc.



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.

Jen Pellegrini, Project Manager

Jen Pellegrini, Project Manager

Origins Laboratory, Inc.

Jeff Pelligrini

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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y206638 Client: Tasman
Client Project ID: Drieth 6H-A368

Checklist Completed by: MS Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 8/26/22 Airbill #: NA

Matrix(s) Received: (Check all that apply): a Soil/Solid Water Other: _____
(Describe)

Cooler Number/Temperature: 1 / 4.1 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<u>X</u>			
Is there ice present (document if blue ice is used)	<u>X</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>X</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>X</u>		
Were all samples received intact ⁽¹⁾ ?	<u>X</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>X</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<u>X</u>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>X</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>X</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>X</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>X</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>X</u>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<u>X</u>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JP Date/Time Reviewed 8/29/22

Origins Laboratory, Inc.

Jen Pellegrini

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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS07@3'

8/25/2022 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-01 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.515	0.101	mg/L	1	B2H2615	CJM	08/26/2022	08/30/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2H3012	ADM	08/30/2022	09/13/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	85.7 %	50-150			"	"	"		
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2637	JSM	08/26/2022	09/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130			"	"	"		
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	93.7 %	70-130			"	"	"		

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS07@3'

8/25/2022 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-01 (Soil)
Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	7.06	0.499	meq/L	10	[CALC]	KAP	08/26/2022	08/31/2022
Magnesium	2.29	0.823	"	"	"	KAP	"	"
Sodium	2.18	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.33		pH Units	1	B2H2618	AJB	08/26/2022	08/30/2022
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SAR by 20B Saturated Paste

SAR	1.01		SAR	1	B2H2617	KAP	08/26/2022	08/31/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.05	0.00500	mmhos/cm	1	B2H2618	AJB	08/26/2022	08/30/2022
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Table 915 metals by EPA 6020B

Arsenic	6.81	0.0764	mg/kg	5	B2H2620	CNG	08/26/2022	09/02/2022
Barium	136	7.64	"	"	"	CNG	"	"
Cadmium	0.265	0.0764	"	"	"	CNG	"	"
Copper	11.6	7.64	"	"	"	CNG	"	"
Lead	13.4	7.64	"	"	"	CNG	"	"
Nickel	13.9	7.64	"	"	"	CNG	"	"
Selenium	0.339	0.0764	"	"	"	CNG	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS07@3'

8/25/2022 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-01 (Soil)
Origins Laboratory, Inc.

Table 915 metals by EPA 6020B

Silver	ND	0.0764	mg/kg	5	B2H2620	CNG	08/26/2022	09/02/2022	U
Zinc	ND	76.4	"	"	"	CNG	"	"	U

Waypoint Analytical, LLC.

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L634779		08/30/2022	08/30/2022	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS07@3'

8/25/2022 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-01 (Soil)
Waypoint Analytical, LLC.

PAH by 8270D SIM

Naphthalene	ND	0.00067	mg/Kg	1	L634779		08/30/2022	08/30/2022	
Pyrene	ND	0.00067	"	"	"		"	"	
Surrogate: 2-Fluorobiphenyl	60.9 %	33-115			"		"	"	
Surrogate: 4-Terphenyl-d14	75.1 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	63.4 %	29-110			"		"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	5	mg/Kg	10	L635104		08/25/2022	08/31/2022	
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Origins Laboratory, Inc.



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.

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS08@3'

8/25/2022 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-02 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.391	0.100	mg/L	1	B2H2615	CJM	08/26/2022	08/30/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2H3012	ADM	08/30/2022	09/13/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	84.3 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2637	JSM	08/26/2022	09/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.5 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS08@3'

8/25/2022 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-02 (Soil)
Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	2.91	0.499	meq/L	10	[CALC]	KAP	08/26/2022	08/31/2022
Magnesium	0.869	0.823	"	"	"	KAP	"	"
Sodium	1.33	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.22		pH Units	1	B2H2618	AJB	08/26/2022	08/30/2022
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SAR by 20B Saturated Paste

SAR	0.965		SAR	1	B2H2617	KAP	08/26/2022	08/31/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.523	0.00500	mmhos/cm	1	B2H2618	AJB	08/26/2022	08/30/2022
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Table 915 metals by EPA 6020B

Arsenic	6.39	0.0787	mg/kg	5	B2H2620	CNG	08/26/2022	09/02/2022
Barium	154	7.87	"	"	"	CNG	"	"
Cadmium	0.274	0.0787	"	"	"	CNG	"	"
Copper	10.3	7.87	"	"	"	CNG	"	"
Lead	13.9	7.87	"	"	"	CNG	"	"
Nickel	14.2	7.87	"	"	"	CNG	"	"
Selenium	0.314	0.0787	"	"	"	CNG	"	"

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS08@3'

8/25/2022 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-02 (Soil)
Origins Laboratory, Inc.

Table 915 metals by EPA 6020B

Silver	ND	0.0787	mg/kg	5	B2H2620	CNG	08/26/2022	09/02/2022	U
Zinc	ND	78.7	"	"	"	CNG	"	"	U

Waypoint Analytical, LLC.

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L634779		08/30/2022	08/30/2022
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	ND	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS08@3'

8/25/2022 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-02 (Soil)
Waypoint Analytical, LLC.

PAH by 8270D SIM

Naphthalene	ND	0.00067	mg/Kg	1	L634779		08/30/2022	08/30/2022	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	65.8 %	33-115			"	"		"	
Surrogate: 4-Terphenyl-d14	78.5 %	33-122			"	"		"	
Surrogate: Nitrobenzene-d5	67.4 %	29-110			"	"		"	

Total Metals by 7196A

Chromium, Hexavalent	ND	5	mg/Kg	10	L635104		08/25/2022	08/31/2022	
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Origins Laboratory, Inc.



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.

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS09@3'

8/25/2022 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-03 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.560	0.101	mg/L	1	B2H2615	CJM	08/26/2022	08/30/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2H3012	ADM	08/30/2022	09/13/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	82.7 %	50-150			"	"	"		
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2637	JSM	08/26/2022	09/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130			"	"	"		
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	90.9 %	70-130			"	"	"		

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS09@3'

8/25/2022 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-03 (Soil)
Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	3.20	0.499	meq/L	10	[CALC]	KAP	08/26/2022	08/31/2022
Magnesium	1.16	0.823	"	"	"	KAP	"	"
Sodium	1.21	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.27		pH Units	1	B2H2618	AJB	08/26/2022	08/30/2022
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SAR by 20B Saturated Paste

SAR	0.820		SAR	1	B2H2617	KAP	08/26/2022	08/31/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.574	0.00500	mmhos/cm	1	B2H2618	AJB	08/26/2022	08/30/2022
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Table 915 metals by EPA 6020B

Arsenic	3.66	0.0905	mg/kg	5	B2H2620	CNG	08/26/2022	09/02/2022
Barium	77.0	9.05	"	"	"	CNG	"	"
Cadmium	0.145	0.0905	"	"	"	CNG	"	"
Copper	ND	9.05	"	"	"	CNG	"	" U
Lead	ND	9.05	"	"	"	CNG	"	" U
Nickel	ND	9.05	"	"	"	CNG	"	" U
Selenium	0.185	0.0905	"	"	"	CNG	"	"

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS09@3'

8/25/2022 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-03 (Soil)
Origins Laboratory, Inc.

Table 915 metals by EPA 6020B

Silver	ND	0.0905	mg/kg	5	B2H2620	CNG	08/26/2022	09/02/2022	U
Zinc	ND	90.5	"	"	"	CNG	"	"	U

Waypoint Analytical, LLC.

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L634779		08/30/2022	08/30/2022
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	ND	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS09@3'

8/25/2022 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-03 (Soil)
Waypoint Analytical, LLC.

PAH by 8270D SIM

Naphthalene	ND	0.00067	mg/Kg	1	L634779		08/30/2022	08/30/2022	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	52.7 %	33-115			"	"		"	
Surrogate: 4-Terphenyl-d14	66.9 %	33-122			"	"		"	
Surrogate: Nitrobenzene-d5	55.1 %	29-110			"	"		"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.505	mg/Kg	1	L635104		08/25/2022	08/31/2022	
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Origins Laboratory, Inc.



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.

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS10@3'

8/25/2022 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-04 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B2H2615	CJM	08/26/2022	08/30/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2H3012	ADM	08/30/2022	09/13/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	83.5 %	50-150			"	"	"		
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2637	JSM	08/26/2022	09/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130			"	"	"		
Surrogate: Toluene-d8	101 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	89.4 %	70-130			"	"	"		

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS10@3'

8/25/2022 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-04 (Soil)
Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	0.790	0.499	meq/L	10	[CALC]	KAP	08/26/2022	08/31/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.17		pH Units	1	B2H2618	AJB	08/26/2022	08/30/2022
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SAR by 20B Saturated Paste

SAR	0.405		SAR	1	B2H2617	KAP	08/26/2022	08/31/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.196	0.00500	mmhos/cm	1	B2H2618	AJB	08/26/2022	08/30/2022
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Table 915 metals by EPA 6020B

Arsenic	2.49	0.0924	mg/kg	5	B2H2620	CNG	08/26/2022	09/02/2022
Barium	35.6	9.24	"	"	"	CNG	"	"
Cadmium	ND	0.0924	"	"	"	CNG	"	" U
Copper	ND	9.24	"	"	"	CNG	"	" U
Lead	ND	9.24	"	"	"	CNG	"	" U
Nickel	ND	9.24	"	"	"	CNG	"	" U

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS10@3'

8/25/2022 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-04 (Soil)
Origins Laboratory, Inc.

Table 915 metals by EPA 6020B

Selenium	0.127	0.0924	mg/kg	5	B2H2620	CNG	08/26/2022	09/02/2022	
Silver	ND	0.0924	"	"	"	CNG	"	"	U
Zinc	ND	92.4	"	"	"	CNG	"	"	U

Waypoint Analytical, LLC.

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L634779		08/30/2022	08/30/2022	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS10@3'

8/25/2022 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-04 (Soil)
Waypoint Analytical, LLC.

PAH by 8270D SIM

Naphthalene	ND	0.00067	mg/Kg	1	L634779		08/30/2022	08/30/2022	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	60.4 %	33-115			"	"	"	"	
Surrogate: 4-Terphenyl-d14	71.9 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	61.3 %	29-110			"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	2.52	mg/Kg	5	L635104		08/25/2022	08/31/2022	
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Origins Laboratory, Inc.



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.

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS11@3'

8/25/2022 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-05 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.107	0.0999	mg/L	1	B2H2615	CJM	08/26/2022	08/30/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2H3012	TMC	08/30/2022	09/14/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TMC	"	"	U

Surrogate: o-Terphenyl	83.0 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2637	JSM	08/26/2022	09/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	86.2 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS11@3'

8/25/2022 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-05 (Soil)
Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	1.27	0.499	meq/L	10	[CALC]	KAP	08/26/2022	08/31/2022
Magnesium	0.825	0.823	"	"	"	KAP	"	"
Sodium	1.80	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.29		pH Units	1	B2H2618	AJB	08/26/2022	08/30/2022
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SAR by 20B Saturated Paste

SAR	1.76		SAR	1	B2H2617	KAP	08/26/2022	08/31/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.412	0.00500	mmhos/cm	1	B2H2618	AJB	08/26/2022	08/30/2022
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Table 915 metals by EPA 6020B

Arsenic	2.24	0.0751	mg/kg	5	B2H2620	CNG	08/26/2022	09/02/2022
Barium	48.7	7.51	"	"	"	CNG	"	"
Cadmium	ND	0.0751	"	"	"	CNG	"	" U
Copper	ND	7.51	"	"	"	CNG	"	" U
Lead	ND	7.51	"	"	"	CNG	"	" U
Nickel	ND	7.51	"	"	"	CNG	"	" U
Selenium	0.113	0.0751	"	"	"	CNG	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS11@3'

8/25/2022 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-05 (Soil)
Origins Laboratory, Inc.

Table 915 metals by EPA 6020B

Silver	ND	0.0751	mg/kg	5	B2H2620	CNG	08/26/2022	09/02/2022	U
Zinc	ND	75.1	"	"	"	CNG	"	"	U

Waypoint Analytical, LLC.

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L634779		08/30/2022	08/30/2022
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	ND	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS11@3'

8/25/2022 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-05 (Soil)
Waypoint Analytical, LLC.

PAH by 8270D SIM

Naphthalene	ND	0.00067	mg/Kg	1	L634779		08/30/2022	08/30/2022	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	59.8 %	33-115			"	"	"	"	
Surrogate: 4-Terphenyl-d14	73.6 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	62.2 %	29-110			"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.501	mg/Kg	1	L635104		08/25/2022	08/31/2022	
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Origins Laboratory, Inc.



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.

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS12@3'

8/25/2022 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-06 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2H2615	CJM	08/26/2022	08/30/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2H3012	TMC	08/30/2022	09/14/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TMC	"	"	U

Surrogate: o-Terphenyl	83.8 %	50-150			"	"	"		
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2637	JSM	08/26/2022	09/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130			"	"	"		
Surrogate: Toluene-d8	99.4 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	87.0 %	70-130			"	"	"		

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS12@3'

8/25/2022 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-06 (Soil)
Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	4.20	0.499	meq/L	10	[CALC]	KAP	08/26/2022	08/31/2022
Magnesium	2.60	0.823	"	"	"	KAP	"	"
Sodium	4.35	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.04		pH Units	1	B2H2618	AJB	08/26/2022	08/30/2022
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SAR by 20B Saturated Paste

SAR	2.36		SAR	1	B2H2617	KAP	08/26/2022	08/31/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.05	0.00500	mmhos/cm	1	B2H2618	AJB	08/26/2022	08/30/2022
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Table 915 metals by EPA 6020B

Arsenic	2.57	0.0728	mg/kg	5	B2H2620	CNG	08/26/2022	09/02/2022
Barium	56.8	7.28	"	"	"	CNG	"	"
Cadmium	ND	0.0728	"	"	"	CNG	"	" U
Copper	ND	7.28	"	"	"	CNG	"	" U
Lead	ND	7.28	"	"	"	CNG	"	" U
Nickel	ND	7.28	"	"	"	CNG	"	" U
Selenium	0.0880	0.0728	"	"	"	CNG	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS12@3'

8/25/2022 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-06 (Soil)
Origins Laboratory, Inc.

Table 915 metals by EPA 6020B

Silver	ND	0.0728	mg/kg	5	B2H2620	CNG	08/26/2022	09/02/2022	U
Zinc	ND	72.8	"	"	"	CNG	"	"	U

Waypoint Analytical, LLC.

PAH by 8270D SIM

1-Methylnaphthalene	0.00109	0.00067	mg/Kg	1	L634779		08/30/2022	08/30/2022
2-Methylnaphthalene	0.0018	0.00067	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	ND	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"
Naphthalene	0.00107	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS12@3'

8/25/2022 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-06 (Soil)
Waypoint Analytical, LLC.

PAH by 8270D SIM

Pyrene	ND	0.00067	mg/Kg	1	L634779	08/30/2022	08/30/2022
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Surrogate: 2-Fluorobiphenyl	52.9 %	33-115			"	"	"
Surrogate: 4-Terphenyl-d14	73.7 %	33-122			"	"	"
Surrogate: Nitrobenzene-d5	55 %	29-110			"	"	"

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.506	mg/Kg	1	L635106	08/25/2022	08/31/2022
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS13@3'

8/25/2022 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-07 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.348	0.0983	mg/L	1	B2H2615	CJM	08/26/2022	08/30/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2H3012	TMC	08/30/2022	09/14/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TMC	"	"	U

Surrogate: o-Terphenyl	82.8 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2637	JSM	08/26/2022	09/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	89.7 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS13@3'

8/25/2022 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-07 (Soil)
Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	4.07	0.499	meq/L	10	[CALC]	KAP	08/26/2022	08/31/2022
Magnesium	1.33	0.823	"	"	"	KAP	"	"
Sodium	1.00	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.21		pH Units	1	B2H2618	AJB	08/26/2022	08/30/2022
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SAR by 20B Saturated Paste

SAR	0.611		SAR	1	B2H2617	KAP	08/26/2022	08/31/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.648	0.00500	mmhos/cm	1	B2H2618	AJB	08/26/2022	08/30/2022
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Table 915 metals by EPA 6020B

Arsenic	6.43	0.0772	mg/kg	5	B2H2620	CNG	08/26/2022	09/06/2022
Barium	152	7.72	"	"	"	CNG	"	"
Cadmium	0.233	0.0772	"	"	"	CNG	"	"
Copper	13.2	7.72	"	"	"	CNG	"	"
Lead	11.9	7.72	"	"	"	CNG	"	"
Nickel	16.3	7.72	"	"	"	CNG	"	"
Selenium	0.257	0.0772	"	"	"	CNG	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS13@3'

8/25/2022 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-07 (Soil)
Origins Laboratory, Inc.

Table 915 metals by EPA 6020B

Silver	ND	0.0772	mg/kg	5	B2H2620	CNG	08/26/2022	09/06/2022	U
Zinc	ND	77.2	"	"	"	CNG	"	"	U

Waypoint Analytical, LLC.

PAH by 8270D SIM

1-Methylnaphthalene	0.002	0.00067	mg/Kg	1	L634779		08/30/2022	08/30/2022
2-Methylnaphthalene	0.00328	0.00067	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	ND	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"
Naphthalene	0.00194	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SS13@3'

8/25/2022 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-07 (Soil)
Waypoint Analytical, LLC.

PAH by 8270D SIM

Pyrene	ND	0.00067	mg/Kg	1	L634779	08/30/2022	08/30/2022
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Surrogate: 2-Fluorobiphenyl	61.7 %	33-115			"	"	"
Surrogate: 4-Terphenyl-d14	69.6 %	33-122			"	"	"
Surrogate: Nitrobenzene-d5	62.6 %	29-110			"	"	"

Total Metals by 7196 A

Chromium, Hexavalent	ND	5.09	mg/Kg	1	L635106	08/25/2022	08/31/2022
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Origins Laboratory, Inc.



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.

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

SP-CS01@3"

8/25/2022 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-08 (Soil) Origins Laboratory, Inc.

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2H3012	TMC	08/30/2022	09/14/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TMC	"	"	U

Surrogate: o-Terphenyl 80.6 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H2637	JSM	08/26/2022	09/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.2 % 70-130 " " "
Surrogate: Toluene-d8 98.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 89.6 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

BG01@1'

8/25/2022 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-09 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.544	0.0991	mg/L	1	B2H2615	CJM	08/26/2022	08/30/2022
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Metals by Saturated Paste by EPA 6010

Calcium	4.31	0.499	meq/L	10	[CALC]	KAP	08/26/2022	08/31/2022
Magnesium	1.37	0.823	"	"	"	KAP	"	"
Sodium	1.36	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.21		pH Units	1	B2H2618	AJB	08/26/2022	08/30/2022
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SAR by 20B Saturated Paste

SAR	0.808		SAR	1	B2H2617	KAP	08/26/2022	08/31/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.687	0.00500	mmhos/cm	1	B2H2618	AJB	08/26/2022	08/30/2022
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Table 915 metals by EPA 6020B

Arsenic	6.52	0.0970	mg/kg	10	B2I1426	CIH	09/14/2022	09/15/2022
Barium	134	9.70	"	"	"	CIH	"	"
Cadmium	0.240	0.0970	"	"	"	CIH	"	"
Copper	14.7	9.70	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

BG01@1'

8/25/2022 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-09 (Soil)
Origins Laboratory, Inc.

Table 915 metals by EPA 6020B

Lead	12.5	9.70	mg/kg	10	B2I1426	CIH	09/14/2022	09/15/2022	
Nickel	16.5	9.70	"	"	"	CIH	"	"	
Selenium	0.300	0.0970	"	"	"	CIH	"	"	
Silver	ND	0.0970	"	"	"	CIH	"	"	U
Zinc	ND	97.0	"	"	"	CIH	"	"	U

Waypoint Analytical, LLC.

Total Metals by 7196A

Chromium, Hexavalent	ND	1.01	mg/Kg	2	L638537		08/25/2022	09/20/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

BG02@2'

8/25/2022 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-10 (Soil) Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.502	0.0982	mg/L	1	B2H2615	CJM	08/26/2022	08/30/2022
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Metals by Saturated Paste by EPA 6010

Calcium	3.14	0.499	meq/L	10	[CALC]	KAP	08/26/2022	08/31/2022
Magnesium	0.996	0.823	"	"	"	KAP	"	"
Sodium	1.07	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.39		pH Units	1	B2H2618	AJB	08/26/2022	08/30/2022
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SAR by 20B Saturated Paste

SAR	0.743		SAR	1	B2H2617	KAP	08/26/2022	08/31/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.554	0.00500	mmhos/cm	1	B2H2618	AJB	08/26/2022	08/30/2022
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Table 915 metals by EPA 6020B

Arsenic	7.07	0.0991	mg/kg	10	B2I1426	CIH	09/14/2022	09/15/2022
Barium	173	9.91	"	"	"	CIH	"	"
Cadmium	0.278	0.0991	"	"	"	CIH	"	"
Copper	15.0	9.91	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

BG02@2'

8/25/2022 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-10 (Soil)
Origins Laboratory, Inc.

Table 915 metals by EPA 6020B

Lead	14.4	9.91	mg/kg	10	B2I1426	CIH	09/14/2022	09/15/2022	
Nickel	17.7	9.91	"	"	"	CIH	"	"	
Selenium	0.347	0.0991	"	"	"	CIH	"	"	
Silver	ND	0.0991	"	"	"	CIH	"	"	U
Zinc	ND	99.1	"	"	"	CIH	"	"	U

Waypoint Analytical, LLC.

Total Metals by 7196A

Chromium, Hexavalent	ND	1.03	mg/Kg	2	L638537		08/25/2022	09/20/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

BG03@4'

8/25/2022 1:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-11 (Soil) Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.457	0.100	mg/L	1	B2H2615	CJM	08/26/2022	08/30/2022
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Metals by Saturated Paste by EPA 6010

Calcium	2.68	0.499	meq/L	10	[CALC]	KAP	08/26/2022	08/31/2022
Magnesium	0.861	0.823	"	"	"	KAP	"	"
Sodium	0.820	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.32		pH Units	1	B2H2618	AJB	08/26/2022	08/30/2022
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SAR by 20B Saturated Paste

SAR	0.616		SAR	1	B2H2617	KAP	08/26/2022	08/31/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.461	0.00500	mmhos/cm	1	B2H2618	AJB	08/26/2022	08/30/2022
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Table 915 metals by EPA 6020B

Arsenic	5.36	0.0980	mg/kg	10	B2I1426	CIH	09/14/2022	09/15/2022
Barium	133	9.80	"	"	"	CIH	"	"
Cadmium	0.224	0.0980	"	"	"	CIH	"	"
Copper	13.2	9.80	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

BG03@4'

8/25/2022 1:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y208638-11 (Soil)
Origins Laboratory, Inc.

Table 915 metals by EPA 6020B

Lead	11.4	9.80	mg/kg	10	B2I1426	CIH	09/14/2022	09/15/2022	
Nickel	14.8	9.80	"	"	"	CIH	"	"	
Selenium	0.282	0.0980	"	"	"	CIH	"	"	
Silver	ND	0.0980	"	"	"	CIH	"	"	U
Zinc	ND	98.0	"	"	"	CIH	"	"	U

Waypoint Analytical, LLC.

Total Metals by 7196A

Chromium, Hexavalent	ND	1.04	mg/Kg	2	L638537		08/25/2022	09/20/2022	
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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2H2637 - EPA 5030 (soil)										
Blank (B2H2637-BLK1)					Prepared: 08/26/2022 Analyzed: 09/02/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.8	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2H2637 - EPA 5030 (soil)										
LCS (B2H2637-BS1)					Prepared: 08/26/2022 Analyzed: 09/02/2022					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.0961	0.00200	"	0.100		96.1	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.0928	0.00380	"	0.100		92.8	70-130			
Toluene	0.0926	0.00200	"	0.100		92.6	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.204	0.00400	"	0.200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H2637 - EPA 5030 (soil)

Matrix Spike (B2H2637-MS1)		Source: Y208638-01			Prepared: 08/26/2022 Analyzed: 09/02/2022					
1,2,4-Trimethylbenzene	0.0912	0.00200	mg/kg	0.100	ND	91.2	70-130			
1,3,5-Trimethylbenzene	0.0904	0.00200	"	0.100	ND	90.4	70-130			
Benzene	0.0969	0.00200	"	0.100	ND	96.9	70-130			
Ethylbenzene	0.0935	0.00200	"	0.100	ND	93.5	70-130			
Naphthalene	0.0811	0.00380	"	0.100	ND	81.1	70-130			
Toluene	0.0929	0.00200	"	0.100	ND	92.9	70-130			
o-Xylene	0.0924	0.00200	"	0.100	ND	92.4	70-130			
m,p-Xylene	0.187	0.00400	"	0.200	ND	93.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2H2637 - EPA 5030 (soil)										
Matrix Spike Dup (B2H2637-MSD1)		Source: Y208638-01			Prepared: 08/26/2022 Analyzed: 09/02/2022					
1,2,4-Trimethylbenzene	0.0976	0.00200	mg/kg	0.100	ND	97.6	70-130	6.72	20	
1,3,5-Trimethylbenzene	0.0975	0.00200	"	0.100	ND	97.5	70-130	7.49	20	
Benzene	0.0965	0.00200	"	0.100	ND	96.5	70-130	0.372	20	
Ethylbenzene	0.0985	0.00200	"	0.100	ND	98.5	70-130	5.25	20	
Naphthalene	0.0915	0.00380	"	0.100	ND	91.5	70-130	12.1	20	
Toluene	0.0913	0.00200	"	0.100	ND	91.3	70-130	1.71	20	
o-Xylene	0.0990	0.00200	"	0.100	ND	99.0	70-130	6.81	20	
m,p-Xylene	0.199	0.00400	"	0.200	ND	99.5	70-130	6.00	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2H3012 - EPA 3550B										
Blank (B2H3012-BLK1)					Prepared: 08/30/2022 Analyzed: 09/02/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		113	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H3012 - EPA 3550B

LCS (B2H3012-BS1)

Prepared: 08/30/2022 Analyzed: 09/02/2022

Diesel (C10-C28)	494	25.0	mg/kg	500		98.9	70-130			
Residual Range Organics (C28-C40)	518	100	"	500		104	70-130			
Surrogate: o-Terphenyl	26		"	24.9		106	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H3012 - EPA 3550B

Matrix Spike (B2H3012-MS1)		Source: Y208638-01			Prepared: 08/30/2022 Analyzed: 09/02/2022					
Diesel (C10-C28)	531	25.0	mg/kg	500	ND	106	70-130			
Residual Range Organics (C28-C40)	550	100	"	500	ND	110	70-130			
Surrogate: o-Terphenyl	30		"	24.9		122	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H3012 - EPA 3550B

Matrix Spike Dup (B2H3012-MSD1)		Source: Y208638-01			Prepared: 08/30/2022 Analyzed: 09/02/2022					
Diesel (C10-C28)	506	25.0	mg/kg	500	ND	101	70-130	4.93	35	
Residual Range Organics (C28-C40)	534	100	"	500	ND	107	70-130	3.06	35	
Surrogate: o-Terphenyl	26		"	24.9		106	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by SM 3500 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H2620 - Default Prep Metals

Blank (B2H2620-BLK1)

Prepared: 08/26/2022 Analyzed: 09/02/2022

Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.0100	"							U
Nickel	ND	0.0100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.000100	"							U
Zinc	ND	0.100	"							U

LCS (B2H2620-BS1)

Prepared: 08/26/2022 Analyzed: 09/02/2022

Arsenic	0.0444	0.000100	mg/kg	0.0500		88.9	80-120
Barium	4.59	0.0100	"	5.00		91.7	80-120
Cadmium	0.0493	0.000100	"	0.0500		98.7	80-120
Copper	0.453	0.0100	"	0.500		90.5	80-120
Lead	0.0478	0.0100	"	0.0500		95.6	80-120
Nickel	0.0449	0.0100	"	0.0500		89.9	80-120
Selenium	0.0488	0.000100	"	0.0500		97.6	80-120
Silver	0.0485	0.000100	"	0.0500		97.0	80-120
Zinc	0.434	0.100	"	0.500		86.8	80-120

Matrix Spike (B2H2620-MS1)

Source: Y208618-01

Prepared: 08/26/2022 Analyzed: 09/02/2022

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Metals by SM 3500 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H2620 - Default Prep Metals

Matrix Spike (B2H2620-MS1)		Source: Y208618-01			Prepared: 08/26/2022 Analyzed: 09/02/2022					
Arsenic	12.1	0.0950	mg/kg	9.50	2.12	105	75-125			
Barium	1210	9.50	"	950	156	111	75-125			
Cadmium	10.2	0.0950	"	9.50	0.226	105	75-125			
Copper	101	9.50	"	95.0	6.92	98.6	75-125			
Lead	42.8	9.50	"	9.50	21.9	220	75-125			QM-07
Nickel	18.0	9.50	"	9.50	9.27	91.9	75-125			
Selenium	8.98	0.0950	"	9.50	0.105	93.4	75-125			
Silver	9.82	0.0950	"	9.50	0.123	102	75-125			
Zinc	141	95.0	"	95.0	39.6	106	75-125			

Matrix Spike Dup (B2H2620-MSD1)		Source: Y208618-01			Prepared: 08/26/2022 Analyzed: 09/02/2022					
Arsenic	10.6	0.0847	mg/kg	8.47	2.12	100	75-125	13.1	20	
Barium	1040	8.47	"	847	156	105	75-125	14.7	20	
Cadmium	8.66	0.0847	"	8.47	0.226	99.7	75-125	16.6	20	
Copper	85.9	8.47	"	84.7	6.92	93.3	75-125	15.7	20	
Lead	44.6	8.47	"	8.47	21.9	268	75-125	4.00	20	QM-07
Nickel	15.9	8.47	"	8.47	9.27	77.9	75-125	12.6	20	
Selenium	8.03	0.0847	"	8.47	0.105	93.6	75-125	11.2	20	
Silver	8.31	0.0847	"	8.47	0.123	96.7	75-125	16.6	20	
Zinc	118	84.7	"	84.7	39.6	92.5	75-125	17.7	20	

Batch B2I1426 - Default Prep Metals

Blank (B2I1426-BLK1)		Prepared: 09/14/2022 Analyzed: 09/15/2022								
Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Metals by SM 3500 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I1426 - Default Prep Metals

Blank (B2I1426-BLK1)

Prepared: 09/14/2022 Analyzed: 09/15/2022

Lead	ND	0.0100	mg/kg							U
Nickel	ND	0.0100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.000100	"							U
Zinc	ND	0.100	"							U

LCS (B2I1426-BS1)

Prepared: 09/14/2022 Analyzed: 09/15/2022

Arsenic	0.0499	0.000100	mg/kg	0.0500		99.9	80-120			
Barium	4.93	0.0100	"	5.00		98.7	80-120			
Cadmium	0.0511	0.000100	"	0.0500		102	80-120			
Copper	0.506	0.0100	"	0.500		101	80-120			
Lead	0.0512	0.0100	"	0.0500		102	80-120			
Nickel	0.0548	0.0100	"	0.0500		110	80-120			
Selenium	0.0483	0.000100	"	0.0500		96.5	80-120			
Silver	0.0529	0.000100	"	0.0500		106	80-120			
Zinc	0.512	0.100	"	0.500		102	80-120			

Matrix Spike (B2I1426-MS1)

Source: Y209253-03

Prepared: 09/14/2022 Analyzed: 09/15/2022

Arsenic	7.46	0.0974	mg/kg	4.87	2.59	100	75-125			
Barium	630	9.74	"	487	61.5	117	75-125			
Cadmium	6.99	0.0974	"	4.87	1.14	120	75-125			
Copper	76.9	9.74	"	48.7	24.2	108	75-125			
Lead	31.2	9.74	"	4.87	24.3	143	75-125			QM-07
Nickel	65.8	9.74	"	4.87	74.7	NR	75-125			QM-07
Selenium	4.65	0.0974	"	4.87	0.208	91.2	75-125			
Silver	6.04	0.0974	"	4.87	0.0672	123	75-125			
Zinc	192	97.4	"	48.7	125	139	75-125			QM-07

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Metals by SM 3500 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2I1426 - Default Prep Metals										
Matrix Spike Dup (B2I1426-MSD1)		Source: Y209253-03			Prepared: 09/14/2022 Analyzed: 09/15/2022					
Arsenic	6.95	0.0968	mg/kg	4.84	2.59	90.0	75-125	7.10	20	
Barium	560	9.68	"	484	61.5	103	75-125	11.7	20	
Cadmium	7.25	0.0968	"	4.84	1.14	126	75-125	3.75	20	QM-07
Copper	68.2	9.68	"	48.4	24.2	90.9	75-125	12.0	20	
Lead	32.2	9.68	"	4.84	24.3	163	75-125	2.97	20	QM-07
Nickel	109	9.68	"	4.84	74.7	705	75-125	49.2	20	QM-07, QR-DUP
Selenium	4.70	0.0968	"	4.84	0.208	92.7	75-125	0.998	20	
Silver	5.26	0.0968	"	4.84	0.0672	107	75-125	14.0	20	
Zinc	196	96.8	"	48.4	125	148	75-125	2.14	20	QM-07

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2H2615 - Default Prep Metals										
Blank (B2H2615-BLK1)					Prepared: 08/26/2022 Analyzed: 08/30/2022					
Boron	ND	0.100	mg/L							U
Duplicate (B2H2615-DUP1)					Source: Y208621-02 Prepared: 08/26/2022 Analyzed: 08/30/2022					
Boron	0.580	0.0983	mg/L		0.864			39.3	50	
Batch B2H2617 - Default Prep Metals										
Blank (B2H2617-BLK1)					Prepared: 08/26/2022 Analyzed: 08/31/2022					
Calcium PPM	ND	10.0	mg/L							U
SAR	0.00		SAR							U
Magnesium PPM	ND	10.0	mg/L							U
Sodium PPM	ND	10.0	"							U
Duplicate (B2H2617-DUP1)					Source: Y208631-03 Prepared: 08/26/2022 Analyzed: 08/31/2022					
Calcium PPM	54.9	10.0	mg/L		56.7			3.11	50	
SAR	0.00		SAR		1.25			200	200	U
Magnesium PPM	26.3	10.0	mg/L		26.9			2.18	50	
Sodium PPM	43.6	10.0	"		45.6			4.36	50	

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2H2618 - NO PREP										
Blank (B2H2618-BLK1)					Prepared: 08/26/2022 Analyzed: 08/30/2022					
pH	0.00		pH Units							U
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B2H2618-DUP1)					Source: Y208631-03 Prepared: 08/26/2022 Analyzed: 08/30/2022					
pH	8.24		pH Units		8.22			0.243	25	
Specific Conductance (EC)	0.704	0.00500	mmhos/cm		0.738			4.77	25	

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Total Metals by 7196A - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L635104 -										
DUP (L 82286-DUP)		Source: 82286			Prepared: Analyzed: 08/31/2022					
Chromium, Hexavalent	ND	5	mg/Kg		<5.00		-	0	20	
MS (L 82286-MS)		Source: 82286			Prepared: Analyzed: 08/31/2022					
Chromium, Hexavalent	40.9	5	mg/Kg	39	<2.44	105	75-125			
MSD (L 82286-MSD)		Source: 82286			Prepared: Analyzed: 08/31/2022					
Chromium, Hexavalent	610	50	mg/Kg	606	<24.4	101	75-125			
Batch L638537 -										
DUP (L 84276-DUP)		Source: 84276			Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 84276-MS)		Source: 84276			Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	31.1	2.5	mg/Kg	38.7	< 0.253	80	75-125			
MSD (L 84276-MSD)		Source: 84276			Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	516	51.9	mg/Kg	676	<25.3	76	75-125			
LCS (LCS)					Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	7.61	0.5	mg/Kg	8		95	75-125			
LRB (LRB)					Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	0.339	0.5	mg/Kg				-			J

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L634779 - 3550B

MSD (L 82306-MSD-L634779)		Source: 82306			Prepared: 08/30/2022 Analyzed: 08/30/2022					
Anthracene	0.0978	0.00067	mg/Kg	0.164	<0.000334	59.6	30-130	1.9	30	
2-Methylnaphthalene	0.0806	0.00067	"	0.164	<0.000645	49.1	30-130	0.6	30	
1-Methylnaphthalene	0.0813	0.00067	"	0.164	<0.000364	49.5	30-130	1.4	30	
Acenaphthene	0.0848	0.00067	"	0.164	<0.000304	51.7	30-130	1.4	30	
Benzo(b)fluoranthene	0.0654	0.00067	"	0.164	<0.000585	39.8	30-130	10.2	30	
Benzo(a)anthracene	0.102	0.00067	"	0.164	<0.000493	62.1	30-130	4.7	30	
Benzo(a)pyrene	0.107	0.00067	"	0.164	<0.000468	65.2	30-130	4.5	30	
Pyrene	0.0978	0.00067	"	0.164	<0.000643	59.6	30-130	5.1	30	
Naphthalene	0.0824	0.00067	"	0.164	<0.000484	50.2	30-130	0.8	30	
Indeno(1,2,3-cd)pyrene	0.0705	0.00067	"	0.164	<0.000627	42.9	30-130	0.7	30	
Fluorene	0.0888	0.00067	"	0.164	<0.000286	54.1	30-130	1.6	30	
Fluoranthene	0.0968	0.00067	"	0.164	<0.000394	59	30-130	3.2	30	
Dibenz(a,h)anthracene	0.104	0.00067	"	0.164	<0.000614	63.4	30-130	6.5	30	
Chrysene	0.103	0.00067	"	0.164	<0.000624	62.8	30-130	4.7	30	
Benzo(k)fluoranthene	0.089	0.00067	"	0.164	<0.000437	54.2	30-130	6.8	30	
Surrogate: 2-Fluorobiphenyl	50.4		"	0.329	166	50.4	33-115			
Surrogate: Nitrobenzene-d5	52.8		"	0.329	176	52.8	29-110			
Surrogate: 4-Terphenyl-d14	65		"	0.329	206	65	33-122			

MS (L 82306-MS-L634779)		Source: 82306			Prepared: 08/30/2022 Analyzed: 08/30/2022					
Pyrene	0.103	0.00067	mg/Kg	0.162	<0.000643	63.5	30-130			
Benzo(b)fluoranthene	0.0725	0.00067	"	0.162	<0.000585	44.7	30-130			
Benzo(a)pyrene	0.112	0.00067	"	0.162	<0.000468	69.1	30-130			
1-Methylnaphthalene	0.0825	0.00067	"	0.162	<0.000364	50.9	30-130			
Chrysene	0.108	0.00067	"	0.162	<0.000624	66.6	30-130			
Indeno(1,2,3-cd)pyrene	0.071	0.00067	"	0.162	<0.000627	43.8	30-130			
Fluorene	0.0903	0.00067	"	0.162	<0.000286	55.7	30-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L634779 - 3550B

MS (L 82306-MS-L634779)		Source: 82306			Prepared: 08/30/2022 Analyzed: 08/30/2022					
Fluoranthene	0.1	0.00067	mg/Kg	0.162	<0.000394	61.7	30-130			
Benzo(k)fluoranthene	0.0953	0.00067	"	0.162	<0.000437	58.8	30-130			
Benzo(a)anthracene	0.107	0.00067	"	0.162	<0.000493	66	30-130			
Anthracene	0.0959	0.00067	"	0.162	<0.000334	59.1	30-130			
Acenaphthene	0.086	0.00067	"	0.162	<0.000304	53	30-130			
2-Methylnaphthalene	0.0811	0.00067	"	0.162	<0.000645	50	30-130			
Naphthalene	0.0831	0.00067	"	0.162	<0.000484	51.2	30-130			
Dibenz(a,h)anthracene	0.111	0.00067	"	0.162	<0.000614	68.5	30-130			
Surrogate: Nitrobenzene-d5	54.7		"	0.325	176	54.7	29-110			
Surrogate: 4-Terphenyl-d14	71		"	0.325	206	71	33-122			
Surrogate: 2-Fluorobiphenyl	53.2		"	0.325	166	53.2	33-115			

LCS (LCS-L634779)		Prepared: 08/30/2022 Analyzed: 08/30/2022								
Naphthalene	0.0945	0.00067	mg/Kg	0.167		56.5	30-130			
Indeno(1,2,3-cd)pyrene	0.0914	0.00067	"	0.167		54.7	30-130			
Benzo(a)pyrene	0.136	0.00067	"	0.167		81.4	30-130			
1-Methylnaphthalene	0.0951	0.00067	"	0.167		56.9	30-130			
2-Methylnaphthalene	0.0945	0.00067	"	0.167		56.5	30-130			
Acenaphthene	0.0996	0.00067	"	0.167		59.6	30-130			
Anthracene	0.119	0.00067	"	0.167		71.2	30-130			
Pyrene	0.123	0.00067	"	0.167		73.6	30-130			
Benzo(a)anthracene	0.127	0.00067	"	0.167		76	30-130			
Fluorene	0.105	0.00067	"	0.167		62.8	30-130			
Chrysene	0.132	0.00067	"	0.167		79	30-130			
Fluoranthene	0.121	0.00067	"	0.167		72.4	30-130			
Dibenz(a,h)anthracene	0.136	0.00067	"	0.167		81.4	30-130			
Benzo(b)fluoranthene	0.0826	0.00067	"	0.167		49.4	30-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L634779 - 3550B										
LCS (LCS-L634779)					Prepared: 08/30/2022 Analyzed: 08/30/2022					
Benzo(k)fluoranthene	0.117	0.00067	mg/Kg	0.167		70	30-130			
Surrogate: Nitrobenzene-d5	67.8		"	0.333		67.8	29-110			
Surrogate: 2-Fluorobiphenyl	68.4		"	0.333		68.4	33-115			
Surrogate: 4-Terphenyl-d14	91.8		"	0.333		91.8	33-122			
LRB (LRB-L634779)					Prepared: 08/30/2022 Analyzed: 08/30/2022					
Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	61.5		"	0.333		61.5	29-110			
Surrogate: 4-Terphenyl-d14	77.4		"	0.333		77.4	33-122			
Surrogate: 2-Fluorobiphenyl	61.5		"	0.333		61.5	33-115			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Total Metals by 7196 A - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L635106 -										
DUP (L 82323-DUP)		Source: Y208638-06			Prepared: Analyzed: 08/31/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 82323-MS)		Source: Y208638-06			Prepared: Analyzed: 08/31/2022					
Chromium, Hexavalent	31.1	2.5	mg/Kg	39.5	<1.22	79	75-125			
MSD (L 82323-MSD)		Source: Y208638-06			Prepared: Analyzed: 08/31/2022					
Chromium, Hexavalent	633	50	mg/Kg	631	<24.4	100	75-125			
LCS (LCS)					Prepared: Analyzed: 08/31/2022					
Chromium, Hexavalent	7.1	0.5	mg/Kg	8		89	75-125			
LRB (LRB)					Prepared: Analyzed: 08/31/2022					
Chromium, Hexavalent	0.293	0.5	mg/Kg				-			J

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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.

Jen Pellegrini, Project Manager

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6855 West 119th Avenue
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Mike Jahn
Project Number: C/C: P1206 M/M: 8520.302
Project: Civitas - Drieth 6H-A368

Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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