

**DCP – MEWBOURN GAS PLANT SITE
FORM 27 SUPPLEMENTAL SUMMARY REPORT
March and April 2021 Investigation**

ATTACHMENTS

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Table 1
Mewbourn Gas Plant
Volatile Organic Compound Soil Sample Results
Weld County, Colorado

Sample ID	Date Sampled	Lab Report	PID Reading (PPM)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4-Trimethylbenzene (mg/kg)	1,3,5-Trimethylbenzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	Comments
COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ^(1 & 2) (mg/kg)	-	-	-	0.0026 (M)	0.69 (M)	0.78 (M)	9.9 (M)	0.0081 (R)	0.0087 (R)	0.0038 (R)	500	
MW01 @ 13'	3/9/2021	2103151	1575.0	0.22	<0.0050	0.21	0.34	0.39	0.11	0.049	635	
MW01 @ 23'	3/9/2021	2103151	2.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW02 @ 12'	3/10/2021	2103180	1446.0	0.17	<0.0050	0.045	<0.010	0.086	<0.0050	0.40	722	
MW02 @ 23'	3/10/2021	2103180	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW03 @ 17'	3/9/2021	2103151	718.6	0.02	<0.0050	0.4	2.2	0.69	0.17	0.22	<500	GRO = 68 mg/kg & DRO = 120 mg/kg
MW03 @ 23'	3/9/2021	2103151	3.9	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW04 @ 17'	3/10/2021	2103180	761.0	0.0072	<0.0050	0.027	0.13	7.0	5.5	0.022	<50	
MW04 @ 23'	3/10/2021	2103180	0.9	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW05 @ 13'	3/10/2021	2103180	1164.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	GRO = 250 mg/kg & DRO = 76 mg/kg
MW05 @ 23'	3/10/2021	2103180	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW06 @ 11'	3/11/2021	2103222	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.00500	<50	
MW06 @ 23'	3/11/2021	2103222	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.00500	<50	
MW07 @ 13'	4/7/2021	2104103	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	Background Location
MW07 @ 23'	4/7/2021	2104103	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	Background Location
MW08 @ 19'	4/7/2021	2104103	166.2	<0.0020	<0.0050	0.24	1.1	7.1	0.063	0.020	1500	GRO = 1500 ; DRO = ND; ORO = ND
MW08 @ 23'	4/7/2021	2104103	0.4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	0.57	GRO = 0.57 ; DRO = ND; ORO = ND
MW09 @ 20'	4/8/2021	2104134	2.1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	Background Location
MW09 @ 25'	4/8/2021	2104134	0.7	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	Background Location
Ditch Soil - 01	4/2/2021	2104031	0.8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.00500	<50	
Spoil Soil - 01	4/2/2021	2104031	15.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.00500	<50	

Notes:

1). The environmental cleanup standards for soil that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in soil according to Table 910-1 (Prior to January 15th, 2021) and Table 915-1 (Post January 15, 2021) of the COGCC 900 Series Rule for E&P Waste Management.

2). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021. If there is no pathway for communication with Groundwater, then residential soil screening levels apply for organic compounds and metals. If the Director determines that a pathway to Groundwater exists, then the protection of Groundwater soil screening levels will apply, secondary to actual measured concentrations of the contaminants of concern in Groundwater.

3). The letter "(R)" following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach. The letter "(M)" following a protection of Groundwater soil screening level indicates the concentration is derived from the drinking water MCL.

4). TPH - Total volatile (C₆ - C₁₀) and extractable (C₁₀ - C₃₀) petroleum hydrocarbons.

Concentrations (mg/kg) Risk Based and MCL Based.

mg/kg= Milligrams per kilogram.

ppm - Parts per million

Bold values indicate an exceedance of the Site Specific and/or the COGCC soil standards for the Site.

Table 915 note - If the method detection limit ("MDL") or practical quantitation limit ("PQL") for a pollutant is higher (less stringent) than a threshold concentration listed in Table 915-1, the Director may allow an Operator to substitute the MDL or PQL for the concentration listed in Table 915-1.

**Table 2
Mewbourn Gas Plant
Polyaromatic Hydrocarbon (PAHs) Soil Sample Results
Weld County, Colorado**

Sample ID	Date Sampled	Lab Report	PID Reading (PPM)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benz(a)anthracene (mg/kg)	Benzo(b)fluoranthene (mg/kg)	Benzo(k)fluoranthene (mg/kg)	Benzo(a)pyrene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3-cd)pyrene (mg/kg)	1-methylnaphthalene (mg/kg)	2-methylnaphthalene (mg/kg)	Pyrene (mg/kg)	Comments
COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ^(1 & 2) (mg/kg)	-	-	-	0.55 (R)	5.8 (R)	0.011 (R)	0.3 (R)	2.9 (R)	0.24 (M)	9 (R)	0.096 (R)	8.9 (R)	0.54 (R)	0.98 (R)	0.006 (R)	0.019 (R)	1.3 (R)	
MW01 @ 13'	3/9/2021	2103151	1575.0	<0.0500	0.623	<0.0500	<0.0500	<0.0500	<0.0500	0.0596	<0.0500	<0.0500	<0.0500	<0.0500	3.07	7.79	<0.0500	
MW01 @ 23'	3/9/2021	2103151	2.2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	
MW02 @ 12'	3/10/2021	2103180	1446.0	<0.00500	0.205	<0.00500	<0.00500	<0.00500	<0.00500	0.0245	<0.00500	<0.00500	<0.00500	<0.00500	0.895	1.37	0.0118	
MW02 @ 23'	3/10/2021	2103180	0.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	
MW03 @ 17'	3/9/2021	2103151	718.6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00608	<0.00500	<0.00500	0.0269	<0.00500	0.213	0.460	<0.00500	
MW03 @ 23'	3/9/2021	2103151	3.9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	
MW04 @ 17'	3/10/2021	2103180	761.0	<0.00500	0.0193	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00686	0.00853	<0.00500	0.0479	0.101	<0.00500	
MW04 @ 23'	3/10/2021	2103180	0.9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	
MW05 @ 13'	3/10/2021	2103180	1164.0	<0.00500	0.116	<0.00500	<0.00500	<0.00500	<0.00500	0.0134	<0.00500	<0.00500	<0.00500	<0.00500	0.499	0.907	0.00671	
MW05 @ 23'	3/10/2021	2103180	0.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	
MW06 @ 11'	3/11/2021	2103222	0.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	
MW06 @ 23'	3/11/2021	2103222	0.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	
MW07 @ 13'	4/7/2021	2104103	0.0	-	-	<0.00500	-	-	-	-	-	-	<0.00500	-	<0.00500	<0.00500	-	Background Location
MW07 @ 23'	4/7/2021	2104103	0.0	-	-	<0.00500	-	-	-	-	-	-	<0.00500	-	<0.00500	<0.00500	-	Background Location
MW08 @ 19'	4/7/2021	2104103	166.2	-	-	<0.00500	-	-	-	-	-	-	0.0156	-	0.0923	0.190	-	
MW08 @ 23'	4/7/2021	2104103	0.4	-	-	<0.00500	-	-	-	-	-	-	<0.00500	-	<0.00500	<0.00500	-	
MW09 @ 20'	4/8/2021	2104134	2.1	-	-	<0.00500	-	-	-	-	-	-	<0.00500	-	<0.00500	<0.00500	-	Background Location
MW09 @ 25'	4/8/2021	2104134	0.7	-	-	<0.00500	-	-	-	-	-	-	<0.00500	-	<0.00500	<0.00500	-	Background Location
Ditch Soil - 01	4/2/2021	2104031	0.8	-	-	<0.00500	-	-	-	-	-	-	<0.00500	-	<0.00500	<0.00500	-	
Spoil Soil - 01	4/2/2021	2104031	15.2	-	-	<0.00500	-	-	-	-	-	-	<0.00500	-	<0.00500	<0.00500	-	

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

2). The letter "(R)" following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach. The letter "(M)" following a protection of Groundwater soil screening level indicates the concentration is derived from the drinking water MCL.

mg/kg= Milligrams per kilogram.

PPM - Parts per million

PID - Photoionization Detector

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

Table 915 note - If the method detection limit ("MDL") or practical quantitation limit ("PQL") for a pollutant is higher (less stringent) than a threshold concentration listed in Table 915-1, the Director may allow an Operator to substitute the MDL or PQL for the concentration listed in Table 915-1.

**Table 3
Mewbourn Gas Plant
General Chemistry and Inorganic Soil Sample Results
Weld County, Colorado**

Sample ID	Date Sampled	Lab Report	PID Reading (PPM)	pH (pH units)	Specific Conductance (EC) (mmhos/cm)	Sodium Adsorption Ratio (SAR)	Boron (mg/l)	Arsenic ³ (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)	Comments
COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based^(1 & 2) (mg/kg)	-	-	-	6-8.3	<4 mmhos/cm	<6	2 (mg/L)	0.29 (M)	82 (M)	0.38 (M)	0.00067 (R)	46 (M)	14 (M)	26 (R)	0.26 (M)	0.8 (R)	370 (R)	
MW01 @ 13'	3/9/2021	2103151	1575.0	8.51	0.995	3.1	0.0136	1.63	-	-	<0.30	-	-	-	<0.306	-	-	
MW01 @ 23'	3/9/2021	2103151	2.2	8.24	0.614	0.302	<0.0100	3.28	-	-	<0.30	-	-	-	<0.321	-	-	
MW02 @ 12'	3/10/2021	2103180	1446.0	8.44	0.610	2.01	0.0199	1.90	81.4	<0.225	<0.30	6.15	5.70	6.16	0.599	<0.0225	24.3	
MW02 @ 23'	3/10/2021	2103180	0.0	8.36	0.505	1.67	0.0122	1.78	40.6	<0.237	<0.30	4.60	4.69	4.39	0.409	<0.0237	25.4	
MW03 @ 17'	3/9/2021	2103151	718.6	8.29	0.344	1.15	<0.0100	1.97	-	-	<0.30	-	-	-	<0.300	-	-	
MW03 @ 23'	3/9/2021	2103151	3.9	8.38	0.369	1.61	0.0397	4.14	-	-	<0.30	-	-	-	<0.308	-	-	
MW04 @ 17'	3/10/2021	2103180	761.0	8.40	0.300	0.667	<0.0100	1.67	82.2	<0.236	<0.30	5.76	5.58	5.29	0.582	<0.0236	24.6	
MW04 @ 23'	3/10/2021	2103180	0.9	8.10	0.460	0.813	<0.0100	5.83	67.5	<0.235	<0.30	11.3	10.1	11.2	1.00	<0.0235	54.2	
MW05 @ 13'	3/10/2021	2103180	1164.0	8.25	0.558	2.14	0.0141	1.34	60.8	<0.233	<0.30	10.6	4.70	4.66	0.540	<0.0233	27.4	
MW05 @ 23'	3/10/2021	2103180	0.0	8.23	0.904	2.56	0.0351	4.46	41.0	<0.252	<0.30	5.10	6.01	5.13	0.496	<0.0252	28.3	
MW06 @ 11'	3/11/2021	2103222	0.0	8.1	0.40	3.00	0.0884	1.01	121	<0.235	<0.30	7.08	6.73	7.96	0.887	<0.0235	39.5	
MW06 @ 23'	3/11/2021	2103222	0.0	8.0	0.51	2.55	0.147	3.1	38.5	<0.228	<0.30	5.2	5.52	4.97	0.51	<0.0228	27.1	
MW07 @ 13'	4/7/2021	2104103	0.0	8.16	0.7	1.32	0.0573	2.06	-	-	-	-	-	-	0.869	-	-	Background Location
MW07 @ 23'	4/7/2021	2104103	0.0	8.29	0.5	1.89	0.0691	7.83	-	-	-	-	-	-	1.21	-	-	Background Location
MW08 @ 19'	4/7/2021	On Hold	166.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW08 @ 23'	4/7/2021	On Hold	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW09 @ 20'	4/8/2021	2104134	2.1	8.41	0.305	0.291	0.0621	2.85	-	-	-	-	-	-	0.866	-	-	Background Location
MW09 @ 25'	4/8/2021	2104134	0.7	8.18	0.6	1.4	0.0738	1.73	-	-	-	-	-	-	0.264	-	-	Background Location
Ditch Soil - 01	4/2/2021	2104031	0.8	7.8	0.765	2.56	0.230	NS	-	-	-	-	-	-	NS	-	-	
Spoil Soil - 01	4/2/2021	2104031	15.2	7.66	1.39	2.43	0.229	NS	-	-	-	-	-	-	NS	-	-	

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

2). The letter "(R)" following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach. The letter "(M)" following a protection of Groundwater soil screening level indicates the concentration is derived from the drinking water MCL.

3). The Arsenic concentration from soil sample TP05@12' is within known background levels for soil in Weld County, Colorado

mg/kg= Milligrams per kilogram.

PPM - Parts per million

PID - Photoionization Detector

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

Table 915 note - If the method detection limit ("MDL") or practical quantitation limit ("PQL") for a pollutant is higher (less stringent) than a threshold concentration listed in Table 915-1, the Director may allow an Operator to substitute the MDL or PQL for the concentration listed in Table 915-1.

**TABLE 4
FIRST QUARTER 2021
SUMMARY OF GROUNDWATER ELEVATION DATA
DCP MEWBOURN GAS PLANT
WELD COUNTY, COLORADO**

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event (1) (feet)
MW01	3/16/2021	11.39	-	-	22.33	4820.52	4,809.13	NC
MW02	3/16/2021	11.84	-	-	23.05	4850.71	4,838.87	NC
MW03	3/16/2021	12.09	-	-	22.98	4820.59	4,808.50	NC
MW04	3/16/2021	16.81	-	-	25.87	4826.13	4,809.32	NC
MW05	3/16/2021	10.79	-	-	22.20	4818.18	4,807.39	NC
MW06	3/16/2021	9.91	-	-	21.89	4817.73	4,807.82	NC
MW07	4/12/2021	15.91	-	-	25.68	4,826.34	4,810.43	NC
MW08	4/12/2021	11.55	-	-	22.43	4,821.00	4,809.45	NC
MW09	4/12/2021	18.64	-	-	25.33	4,830.54	4,811.90	NC

Notes:

1- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring event from the measurement collected during the most recent monitoring event.

amsl = feet above mean sea level

TOC = top of casing

Groundwater elevation = (TOC Elevation - Measured Depth to Water) + (LNAPL Thickness in Well * LNAPL Relative Density)

LNAPL relative density was assumed to be approximately 0.75

NM = Not Measured

**TABLE 5
FIRST QUARTER 2021 GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
DCP MEWBOURN GAS PLANT
WELD COUNTY, COLORADO**

Location Identification	Sample Date	Lab Report	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	1,2,4-Trimethylbenzene (µg/l)	1,3,5-Trimethylbenzene (µg/l)	Naphthalene (µg/l)	Total Dissolved Solids (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Benzo(a)anthracene (µg/l)	Fluorene (µg/l)
COGCC Standards (µg/L)⁽¹⁾			5	560	700	1,400	67	67	140	(<1.25 x local background)	(250 mg/l or <1.25 x local background)	(250 mg/l or <1.25 x local background)	0.16⁽²⁾	280⁽²⁾
MW01	3/16/2021	2103245	420	<1.0	500	370	130	75	29	-	-	-	-	-
MW01	3/19/2021	2103294	-	-	-	-	-	-	-	1,050	291	1,740	<0.100	6.50
MW02	3/16/2021	2103245	1,900	3.8	510	250	320	150	25	620	68.2	4.34	-	-
MW02	3/19/2021	2103294	-	-	-	-	-	-	-	-	-	-	<0.100	2.56
MW03	3/16/2021	2103245	120	<1.0	70.0	300	79.0	29.0	3.0	-	-	-	-	-
MW03	3/19/2021	2103294	-	-	-	-	-	-	-	441	104	1,790	<0.100	<0.200
MW04	3/16/2021	2103245	45	<1.0	20	67	310	250	5.1	436	4.55	11.0	-	-
MW04	3/19/2021	2103294	-	-	-	-	-	-	-	-	-	-	<0.100	1.76
MW05	3/16/2021	2103245	9.4	<1.0	<1.0	6.7	2.8	<1.0	<1.0	-	-	-	-	-
MW05	3/19/2021	2103294	-	-	-	-	-	-	-	803	240	1,810	<0.100	1.35
MW06	3/16/2021	2103245	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	780	168	194	-	-
MW06	3/19/2021	2103294	-	-	-	-	-	-	-	-	-	-	<0.100	<0.200
MW07	4/12/2021	Y104191	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	652	<62.5	85.1	<0.02	0.0143 J
MW08	4/12/2021	Y104191	<4.0	<4.0	154	1020	463	296	<16.0	704	89.9	<62.5	<0.1	0.667
MW09	4/12/2021	Y104191	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	520	<62.5	<62.5	<0.02	0.0115 J
Surface Water-01	3/19/2021	2103294	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	783	264	2,140	<1.0	<2.0

Notes:

- 1). The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 915-1 of the COGCC 900 Series Rule for E&P Waste Management.
- 2). Standards are taken from the Colorado Department of Public Health and Environment - Water Quality Control Commission, 5 CCR 1002-41, Table A - Groundwater Organic Chemical Standards.

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

µg/L = micrograms per liter.

mg/L = milligrams per liter.

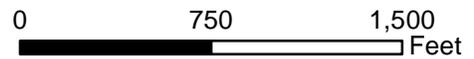
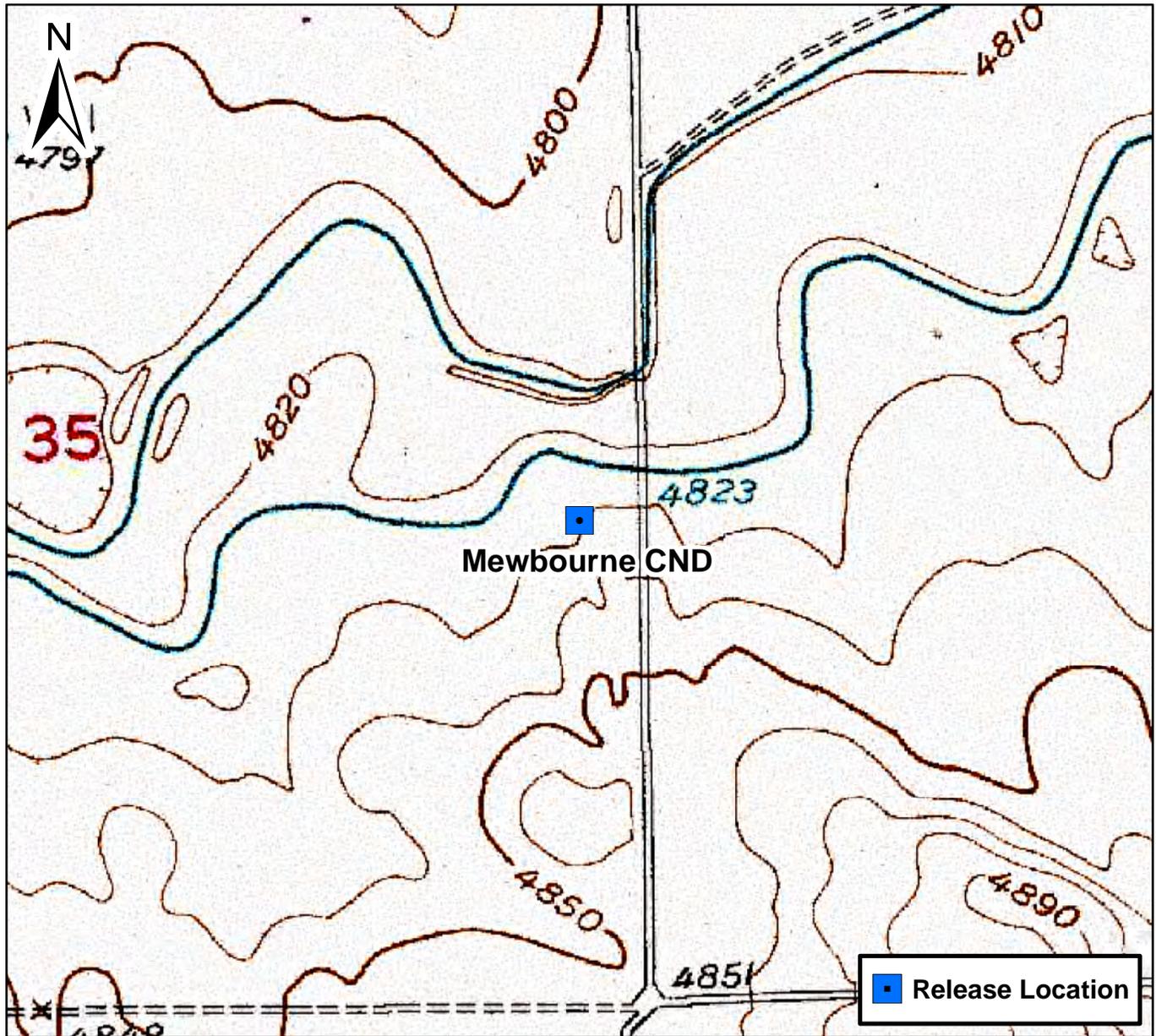


Figure 1

Site Location Map
 Mewbourn CND
 NESE S35 T4N R66W
 Weld County, Colorado





DATE: April 2021

DESIGNED BY: B. Humphrey

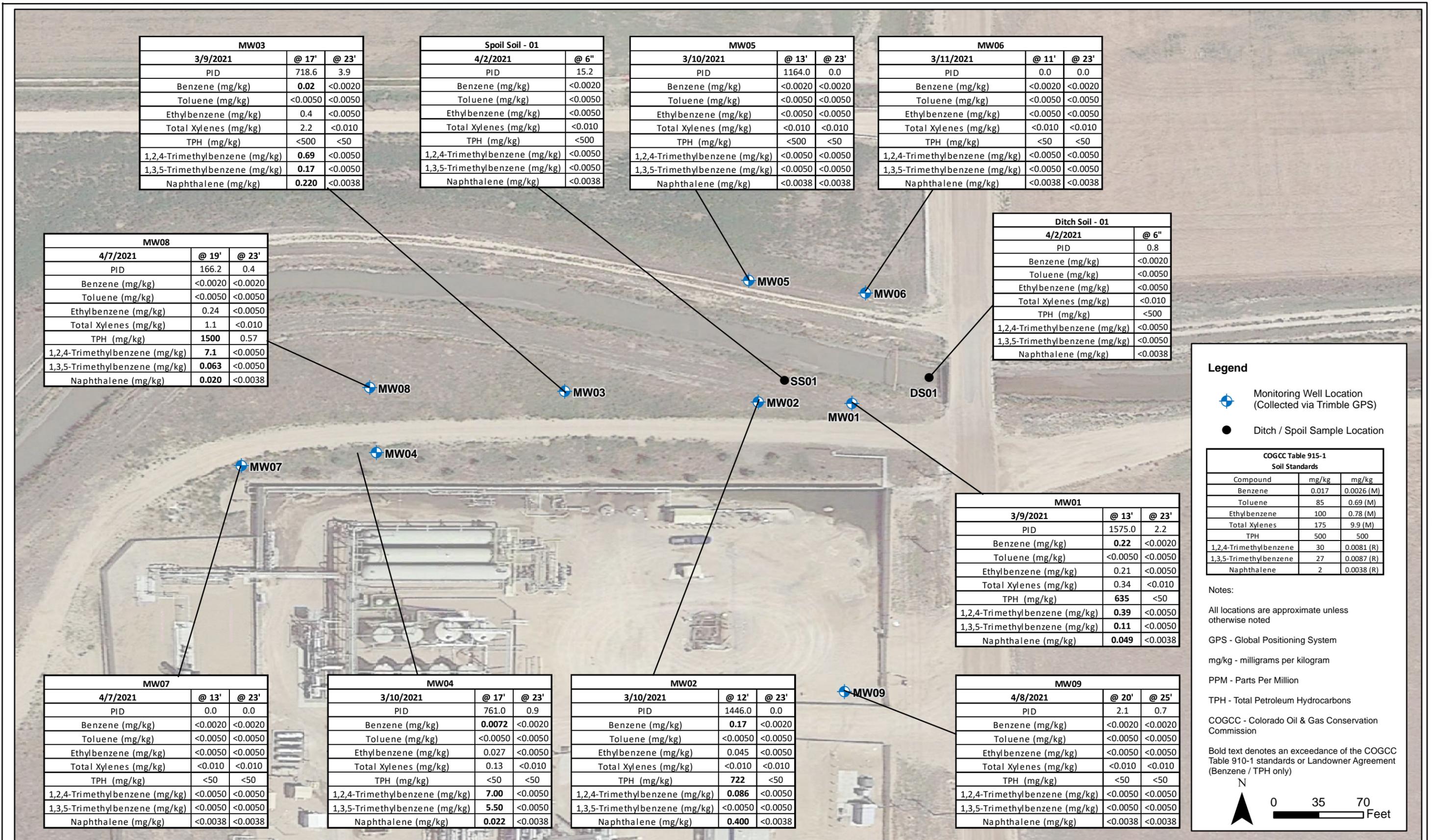
DRAWN BY: J. Clonts



**DCP Midstream – DJ Basin
 Mewbourn CND**
 NESE, Section 35, Township 4 North, Range 66 West
 Weld County, Colorado

Site Overview Map

Figure
 2



DATE: April 2021
 DESIGNED BY: B. Humphrey
 DRAWN BY: J. Clonts



DCP Midstream – DJ Basin
Mewbourn CND
 NESE, Section 35, Township 4 North, Range 66 West
 Weld County, Colorado

Soil Analytical Results Map
 (March 9 - 11, 2021)

Figure
 3



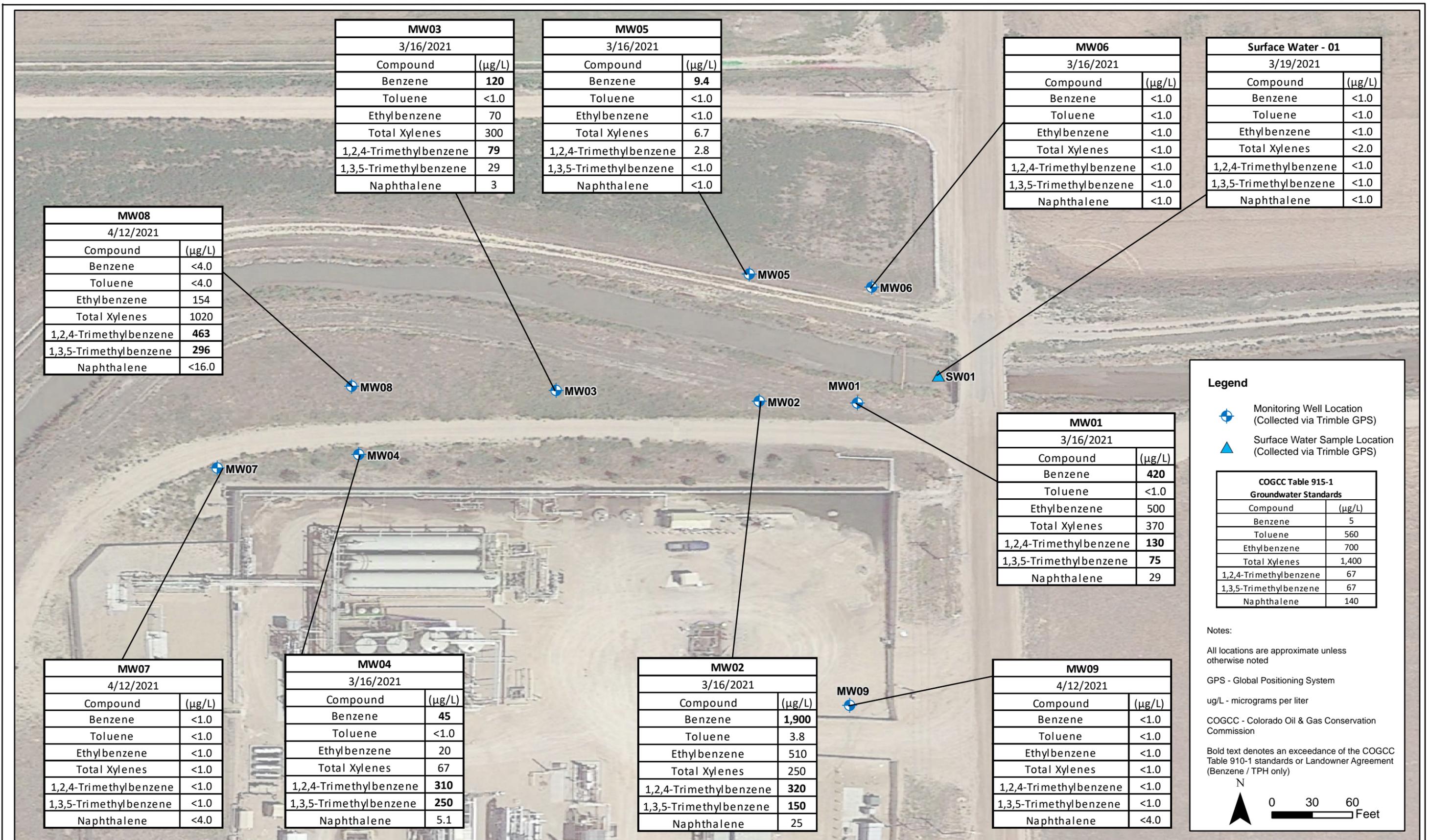
DATE: April 2021
 DESIGNED BY: B. Humphrey
 DRAWN BY: J. Clonts



**DCP Midstream – DJ Basin
 Mewbourn CND**
 NESE, Section 35, Township 4 North, Range 66 West
 Weld County, Colorado

Groundwater Elevation
 Contour Map
 (March 16, 2021)

Figure
 3



DATE: April 2021
 DESIGNED BY: B. Humphrey
 DRAWN BY: J. Clonts



DCP Midstream – DJ Basin
Mewbourn CND
 NESE, Section 35, Township 4 North, Range 66 West
 Weld County, Colorado

Groundwater Analytical
 Results Map
 (March 16 & April 12, 2021)

Figure
 3

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 19, 2021

Brian Humphrey
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: DCP - Mewbourn
Work Order #2103151

Enclosed are the results of analyses for samples received by Summit Scientific on 03/09/21 16:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury
President



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

Project: DCP - Mewbourn

Project Number: [none]

Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01@13'	2103151-01	Soil	03/09/21 10:00	03/09/21 16:40
MW01@23'	2103151-02	Soil	03/09/21 10:20	03/09/21 16:40
MW03@17'	2103151-03	Soil	03/09/21 13:45	03/09/21 16:40
MW03@23'	2103151-04	Soil	03/09/21 14:00	03/09/21 16:40

Summit Scientific

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

Summit Scientific

2103151

S₂

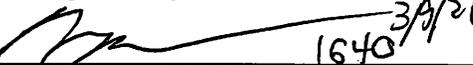
4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: DLP-TABMAN Project Manager: B. HUMPHREY / C. COLR
 Address: 6855 W. 117TH AVE E-Mail: bhumphrey@t-sma-geo.com ; swveathrs@dcpmidstream.com
 City/State/Zip: BROOMFIELD, CO 80020 cecocol@dcpmidstream.com ; jwatth@dcpmidstream.com
 Phone: 303-520-0298 Project Name: DCP MELBOURNE
 Sampler Name: GB/3W Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	TABLE 915	VOL'S I Q10	TABLE 915	PAHS	TABLE 915	METALS	TABLE 915	SAR, PH, EL, BOD		TABLE 915	Q10 + D10	
1	MWØ1Ø 13'	3-9-21	1000	3			X			X				X	X	X	X	X	X					
2	MWØ1Ø 23'	3-9-21	1020	3			X			X				X	X	X	X	X	X					
3	MWØ3Ø 17'	3-9-21	1345	3			X			X				X	X	X	X	X	X					
4	MWØ3Ø 23'	3-9-21	1400	3			X			X				X	X	X	X	X	X					
5																								
6																								
7																								
8																								
9																								
10																								

Relinquished by: 	Date/Time: 3/9/21 1640	Received by: 	Date/Time: 3-9-21 16:40	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	72 hours <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 48 hours <input type="checkbox"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temperature Upon Receipt: 6.1	
				Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Sample Receipt Checklist

S2 Work Order 2103157
 Client: DCP/Tasman Client Project ID: Mewbourn

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

 Matrix (check all that apply): Air Soil/Solid Water Other: _____
 (Describe)

Temp (°C)	6.1
-----------	-----

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	✓			On Ice
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			✓	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	

Additional Comments (if any):

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

MP
 Custodian Printed Name or Initials

Muri Premer
 Signature of Custodian

3/9/21
 Date/Time



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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

MW01@13'
2103151-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/09/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.22	0.0020	mg/kg	1	BEC0225	03/11/21	03/12/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.21	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.34	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.39	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.11	0.0050	"	"	"	"	"	"	
Naphthalene	0.049	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	45	0.50	"	"	"	"	"	"	

Date Sampled: **03/09/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		425 %	21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/09/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	590	50	mg/kg	1	BEC0224	03/11/21	03/12/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/09/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		87.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

R-01

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

MW01@13'
2103151-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

R-01

Date Sampled: **03/09/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.0500	mg/kg	10	BEC0239	03/11/21	03/14/21	EPA 8270D SIM	
Anthracene	0.623	0.0500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Chrysene	0.0596	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	
Fluoranthene	ND	0.0500	"	"	"	"	"	"	
Fluorene	ND	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	
Pyrene	ND	0.0500	"	"	"	"	"	"	
1-Methylnaphthalene	3.07	0.500	"	100	"	"	"	"	
2-Methylnaphthalene	7.79	0.500	"	"	"	"	"	"	

Date Sampled: **03/09/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		85.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		93.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/09/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0136	0.0100	mg/L	1	BEC0303	03/17/21	03/19/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/09/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

MW01@13'
2103151-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.63	0.235	mg/kg dry	1	BEC0229	03/11/21	03/11/21	EPA 6020B	
Selenium	ND	0.306	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/09/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0250	03/12/21	03/12/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/09/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	63.9	0.0588	mg/L dry	1	BEC0292	03/17/21	03/19/21	EPA 6020B	
Magnesium	18.0	0.0588	"	"	"	"	"	"	
Sodium	108	0.0588	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/09/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.07	0.100	units	1	BEC0338	03/19/21	03/19/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/09/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BEC0208	03/10/21	03/11/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

MW01@13'
2103151-01 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/09/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.995	0.0100		mmhos/cm	1	BEC0324	03/18/21	03/19/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/09/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.51			pH Units	1	BEC0325	03/18/21	03/19/21	EPA 9045D	

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

MW01@23'
2103151-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/09/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0225	03/11/21	03/12/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/09/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		75.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/09/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0224	03/11/21	03/12/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/09/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

MW01@23'
2103151-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/09/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0239	03/11/21	03/13/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/09/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		50.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/09/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BEC0303	03/17/21	03/19/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/09/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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



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

Project: DCP - Mewbourn
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

MW01@23'
2103151-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.28	0.247	mg/kg dry	1	BEC0229	03/11/21	03/11/21	EPA 6020B	
Selenium	ND	0.321	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/09/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0250	03/12/21	03/12/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/09/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	67.5	0.0618	mg/L dry	1	BEC0292	03/17/21	03/19/21	EPA 6020B	
Magnesium	25.9	0.0618	"	"	"	"	"	"	
Sodium	11.5	0.0618	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/09/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.302	0.100	units	1	BEC0338	03/19/21	03/19/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/09/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.9		%	1	BEC0208	03/10/21	03/11/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Summit Scientific

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



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

Project: DCP - Mewbourn

Project Number: [none]
 Project Manager: Brian Humphrey

Reported:
 03/19/21 11:53

MW01@23'
2103151-02 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/09/21 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.614	0.0100		mmhos/cm	1	BEC0324	03/18/21	03/19/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/09/21 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.24			pH Units	1	BEC0325	03/18/21	03/19/21	EPA 9045D	

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

MW03@17'
2103151-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/09/21 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.020	0.0020	mg/kg	1	BEC0225	03/11/21	03/12/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.40	0.050	"	10	"	"	03/12/21	"	
Xylenes (total)	2.2	0.10	"	"	"	"	03/12/21	"	
1,2,4-Trimethylbenzene	0.69	0.050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.17	0.0050	"	1	"	"	"	"	
Naphthalene	0.22	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	68	5.0	"	10	"	"	"	"	

Date Sampled: **03/09/21 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		76.4 %	23-173	"	"	"	"	"	
Surrogate: Toluene-d8		78.6 %	20-170	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		329 %	21-167	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/09/21 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	120	50	mg/kg	1	BEC0224	03/11/21	03/12/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/09/21 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.7 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

MW03@17'
2103151-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/09/21 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0239	03/11/21	03/13/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	0.00608	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	0.0269	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
Pyrene	ND	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	0.213	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	0.460	0.0500	"	10	"	"	"	"	"

Date Sampled: **03/09/21 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		67.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		64.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/09/21 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BEC0303	03/17/21	03/19/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/09/21 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

MW03@17'
2103151-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.97	0.231	mg/kg dry	1	BEC0229	03/11/21	03/11/21	EPA 6020B	
Selenium	ND	0.300	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/09/21 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0250	03/12/21	03/12/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/09/21 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.3	0.0577	mg/L dry	1	BEC0292	03/17/21	03/19/21	EPA 6020B	
Magnesium	9.16	0.0577	"	"	"	"	"	"	
Sodium	26.6	0.0577	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/09/21 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.15	0.100	units	1	BEC0338	03/19/21	03/19/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/09/21 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.6		%	1	BEC0208	03/10/21	03/11/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

MW03@17'
2103151-03 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/09/21 13:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.344	0.0100		mmhos/cm	1	BEC0324	03/18/21	03/19/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/09/21 13:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.29			pH Units	1	BEC0325	03/18/21	03/19/21	EPA 9045D	

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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

MW03@23'
2103151-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/09/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0225	03/11/21	03/12/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/09/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		64.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/09/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0224	03/11/21	03/12/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/09/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		86.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Tasman Geosciences
6855 W. 119th Ave.
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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

MW03@23'
2103151-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/09/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0239	03/11/21	03/13/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/09/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		46.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/09/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0397	0.0100	mg/L	1	BEC0303	03/17/21	03/19/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/09/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - Mewbourn
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

MW03@23'
2103151-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.14	0.237	mg/kg dry	1	BEC0229	03/11/21	03/11/21	EPA 6020B	
Selenium	ND	0.308	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/09/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0250	03/12/21	03/12/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/09/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.5	0.0593	mg/L dry	1	BEC0292	03/17/21	03/19/21	EPA 6020B	
Magnesium	9.26	0.0593	"	"	"	"	"	"	
Sodium	37.7	0.0593	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/09/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.61	0.100	units	1	BEC0338	03/19/21	03/19/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/09/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.3		%	1	BEC0208	03/10/21	03/11/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

MW03@23'
2103151-04 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/09/21 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.369	0.0100		mmhos/cm	1	BEC0324	03/18/21	03/19/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/09/21 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.38			pH Units	1	BEC0325	03/18/21	03/19/21	EPA 9045D	

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Broomfield CO, 80020

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEC0225 - EPA 5030 Soil MS

Blank (BEC0225-BLK1)

Prepared & Analyzed: 03/11/21

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0311		"	0.0400		77.7	23-173				
<i>Surrogate: Toluene-d8</i>	0.0529		"	0.0400		132	20-170				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0436		"	0.0400		109	21-167				

LCS (BEC0225-BS1)

Prepared & Analyzed: 03/11/21

Benzene	0.0628	0.0020	mg/kg	0.0750		83.8	70-130				
Toluene	0.0932	0.0050	"	0.0750		124	70-130				
Ethylbenzene	0.0962	0.0050	"	0.0750		128	70-130				
m,p-Xylene	0.187	0.010	"	0.150		125	70-130				
o-Xylene	0.0919	0.0050	"	0.0750		123	70-130				
1,2,4-Trimethylbenzene	0.0957	0.0050	"	0.0750		128	70-130				
1,3,5-Trimethylbenzene	0.0796	0.0050	"	0.0750		106	70-130				
Naphthalene	0.0918	0.0038	"	0.0750		122	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0230		"	0.0400		57.4	23-173				
<i>Surrogate: Toluene-d8</i>	0.0443		"	0.0400		111	20-170				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0400		"	0.0400		100	21-167				

Matrix Spike (BEC0225-MS1)

Source: 2103112-01

Prepared & Analyzed: 03/11/21

Benzene	0.0657	0.0020	mg/kg	0.0750	ND	87.6	70-130				
Toluene	0.0932	0.0050	"	0.0750	ND	124	70-130				
Ethylbenzene	0.0940	0.0050	"	0.0750	ND	125	70-130				
m,p-Xylene	0.185	0.010	"	0.150	ND	123	70-130				
o-Xylene	0.0923	0.0050	"	0.0750	ND	123	70-130				
1,2,4-Trimethylbenzene	0.0946	0.0050	"	0.0750	ND	126	70-130				
1,3,5-Trimethylbenzene	0.0886	0.0050	"	0.0750	ND	118	70-130				
Naphthalene	0.0761	0.0038	"	0.0750	0.00588	93.6	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0268		"	0.0400		67.0	23-173				
<i>Surrogate: Toluene-d8</i>	0.0448		"	0.0400		112	20-170				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0404		"	0.0400		101	21-167				

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEC0225 - EPA 5030 Soil MS

Matrix Spike Dup (BEC0225-MSD1)	Source: 2103112-01			Prepared & Analyzed: 03/11/21							
Benzene	0.0701	0.0020	mg/kg	0.0750	ND	93.5	70-130	6.54	30		
Toluene	0.0900	0.0050	"	0.0750	ND	120	70-130	3.47	30		
Ethylbenzene	0.0968	0.0050	"	0.0750	ND	129	70-130	2.89	30		
m,p-Xylene	0.184	0.010	"	0.150	ND	123	70-130	0.504	30		
o-Xylene	0.0917	0.0050	"	0.0750	ND	122	70-130	0.652	30		
1,2,4-Trimethylbenzene	0.0942	0.0050	"	0.0750	ND	126	70-130	0.381	30		
1,3,5-Trimethylbenzene	0.0872	0.0050	"	0.0750	ND	116	70-130	1.60	30		
Naphthalene	0.0752	0.0038	"	0.0750	0.00588	92.4	70-130	1.23	30		
Surrogate: 1,2-Dichloroethane-d4	0.0273		"	0.0400		68.3	23-173				
Surrogate: Toluene-d8	0.0415		"	0.0400		104	20-170				
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.8	21-167				

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEC0224 - EPA 3550A

Blank (BEC0224-BLK1)

Prepared: 03/11/21 Analyzed: 03/12/21

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BEC0224-BS1)

Prepared: 03/11/21 Analyzed: 03/12/21

C10-C28 (DRO)	467	50	mg/kg	500	93.4	70-130				
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Matrix Spike (BEC0224-MS1)

Source: 2103123-01

Prepared: 03/11/21 Analyzed: 03/12/21

C10-C28 (DRO)	445	50	mg/kg	500	15.4	86.0	70-130			
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Matrix Spike Dup (BEC0224-MSD1)

Source: 2103123-01

Prepared: 03/11/21 Analyzed: 03/12/21

C10-C28 (DRO)	398	50	mg/kg	500	15.4	76.5	70-130	11.3	20	
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Summit Scientific

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



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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEC0239 - EPA 5030 Soil MS

Blank (BEC0239-BLK1)

Prepared: 03/11/21 Analyzed: 03/13/21

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0264		"	0.0333		79.1	40-150			
Surrogate: Fluoranthene-d10	0.0216		"	0.0333		64.7	40-150			

LCS (BEC0239-BS1)

Prepared: 03/11/21 Analyzed: 03/13/21

Acenaphthene	0.0374	0.00500	mg/kg	0.0333	112	31-137	
Anthracene	0.0369	0.00500	"	0.0333	111	30-120	
Benzo (a) anthracene	0.0336	0.00500	"	0.0333	101	30-120	
Benzo (a) pyrene	0.0290	0.00500	"	0.0333	86.9	30-120	
Benzo (b) fluoranthene	0.0260	0.00500	"	0.0333	78.1	30-120	
Benzo (k) fluoranthene	0.0292	0.00500	"	0.0333	87.6	30-120	
Chrysene	0.0361	0.00500	"	0.0333	108	30-120	
Dibenz (a,h) anthracene	0.0353	0.00500	"	0.0333	106	30-120	
Fluoranthene	0.0338	0.00500	"	0.0333	101	30-120	
Fluorene	0.0343	0.00500	"	0.0333	103	30-120	
Indeno (1,2,3-cd) pyrene	0.0363	0.00500	"	0.0333	109	30-120	
Pyrene	0.0321	0.00500	"	0.0333	96.3	35-142	
1-Methylnaphthalene	0.0340	0.00500	"	0.0333	102	35-142	
2-Methylnaphthalene	0.0331	0.00500	"	0.0333	99.3	35-142	
Surrogate: 2-Methylnaphthalene-d10	0.0218		"	0.0333	65.3	40-150	
Surrogate: Fluoranthene-d10	0.0216		"	0.0333	64.9	40-150	

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEC0239 - EPA 5030 Soil MS

Matrix Spike (BEC0239-MS1)	Source: 2103166-01			Prepared: 03/11/21 Analyzed: 03/13/21						
Acenaphthene	0.0342	0.00500	mg/kg	0.0333	ND	102	31-137			
Anthracene	0.0355	0.00500	"	0.0333	ND	107	30-120			
Benzo (a) anthracene	0.0313	0.00500	"	0.0333	ND	94.0	30-120			
Benzo (a) pyrene	0.0318	0.00500	"	0.0333	ND	95.5	30-120			
Benzo (b) fluoranthene	0.0278	0.00500	"	0.0333	ND	83.5	30-120			
Benzo (k) fluoranthene	0.0252	0.00500	"	0.0333	ND	75.6	30-120			
Chrysene	0.0333	0.00500	"	0.0333	ND	99.9	30-120			
Dibenz (a,h) anthracene	0.0319	0.00500	"	0.0333	ND	95.6	30-120			
Fluoranthene	0.0316	0.00500	"	0.0333	ND	94.8	30-120			
Fluorene	0.0323	0.00500	"	0.0333	ND	97.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0330	0.00500	"	0.0333	ND	98.9	30-120			
Pyrene	0.0285	0.00500	"	0.0333	ND	85.6	35-142			
1-Methylnaphthalene	0.0329	0.00500	"	0.0333	ND	98.8	15-130			
2-Methylnaphthalene	0.0315	0.00500	"	0.0333	ND	94.6	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0204</i>		<i>"</i>	<i>0.0333</i>		<i>61.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0194</i>		<i>"</i>	<i>0.0333</i>		<i>58.2</i>	<i>40-150</i>			

Matrix Spike Dup (BEC0239-MSD1)	Source: 2103166-01			Prepared: 03/11/21 Analyzed: 03/13/21						
Acenaphthene	0.0393	0.00500	mg/kg	0.0333	ND	118	31-137	14.0	30	
Anthracene	0.0398	0.00500	"	0.0333	ND	120	30-120	11.5	30	
Benzo (a) anthracene	0.0357	0.00500	"	0.0333	ND	107	30-120	13.0	30	
Benzo (a) pyrene	0.0271	0.00500	"	0.0333	ND	81.2	30-120	16.2	30	
Benzo (b) fluoranthene	0.0263	0.00500	"	0.0333	ND	79.0	30-120	5.55	30	
Benzo (k) fluoranthene	0.0267	0.00500	"	0.0333	ND	80.2	30-120	5.93	30	
Chrysene	0.0374	0.00500	"	0.0333	ND	112	30-120	11.6	30	
Dibenz (a,h) anthracene	0.0365	0.00500	"	0.0333	ND	110	30-120	13.7	30	
Fluoranthene	0.0368	0.00500	"	0.0333	ND	111	30-120	15.3	30	
Fluorene	0.0357	0.00500	"	0.0333	ND	107	30-120	9.94	30	
Indeno (1,2,3-cd) pyrene	0.0381	0.00500	"	0.0333	ND	114	30-120	14.5	30	
Pyrene	0.0331	0.00500	"	0.0333	ND	99.4	35-142	15.0	30	
1-Methylnaphthalene	0.0341	0.00500	"	0.0333	ND	102	15-130	3.40	50	
2-Methylnaphthalene	0.0335	0.00500	"	0.0333	ND	100	15-130	6.06	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0220</i>		<i>"</i>	<i>0.0333</i>		<i>65.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0232</i>		<i>"</i>	<i>0.0333</i>		<i>69.5</i>	<i>40-150</i>			

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BEC0303 - EPA 3050B

Blank (BEC0303-BLK1)

Prepared: 03/17/21 Analyzed: 03/19/21

Boron ND 0.0100 mg/L

LCS (BEC0303-BS1)

Prepared: 03/17/21 Analyzed: 03/19/21

Boron 4.49 0.0100 mg/L 5.00 89.8 80-120

Duplicate (BEC0303-DUP1)

Source: 2103125-01

Prepared: 03/17/21 Analyzed: 03/19/21

Boron 0.156 0.0100 mg/L 0.158 0.967 20

Matrix Spike (BEC0303-MS1)

Source: 2103125-01

Prepared: 03/17/21 Analyzed: 03/19/21

Boron 4.07 0.0100 mg/L 5.00 0.158 78.3 75-125

Matrix Spike Dup (BEC0303-MSD1)

Source: 2103125-01

Prepared: 03/17/21 Analyzed: 03/19/21

Boron 3.75 0.0100 mg/L 5.00 0.158 71.9 75-125 8.09 25

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEC0229 - EPA 3050B

Blank (BEC0229-BLK1)

Prepared & Analyzed: 03/11/21

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Selenium	ND	0.260	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							

LCS (BEC0229-BS1)

Prepared & Analyzed: 03/11/21

Arsenic	37.2	0.200	mg/kg wet	40.0	93.0	80-120
Barium	34.8	0.400	"	40.0	87.0	80-120
Cadmium	1.78	0.200	"	2.00	89.2	80-120
Copper	36.2	0.400	"	40.0	90.6	80-120
Lead	17.6	0.200	"	20.0	87.8	80-120
Nickel	36.0	0.400	"	40.0	90.1	80-120
Selenium	3.98	0.260	"	4.00	99.5	80-120
Silver	2.14	0.0200	"	2.00	107	80-120
Zinc	37.4	0.400	"	40.0	93.4	80-120

Duplicate (BEC0229-DUP1)

Source: 2102366-03

Prepared & Analyzed: 03/11/21

Arsenic	4.09	0.220	mg/kg dry	3.87	5.37	30
Barium	1810	0.439	"	1810	0.0306	30
Cadmium	0.168	0.220	"	0.154	8.55	30
Copper	15.6	0.439	"	12.9	19.2	30
Lead	8.33	0.220	"	7.52	10.3	30
Nickel	14.8	0.439	"	13.0	12.6	30
Selenium	ND	0.286	"	ND		30
Silver	0.0498	0.0220	"	0.0420	17.0	30
Zinc	40.2	0.439	"	36.3	10.1	30

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEC0229 - EPA 3050B

Matrix Spike (BEC0229-MS1)

Source: 2102366-03

Prepared & Analyzed: 03/11/21

Arsenic	44.6	0.220	mg/kg dry	43.9	3.87	92.7	75-125			
Barium	1860	0.439	"	43.9	1810	111	75-125			
Cadmium	2.22	0.220	"	2.20	0.154	93.9	75-125			
Copper	53.4	0.439	"	43.9	12.9	92.1	75-125			
Lead	27.7	0.220	"	22.0	7.52	92.0	75-125			
Nickel	54.0	0.439	"	43.9	13.0	93.3	75-125			
Selenium	4.02	0.286	"	4.39	ND	91.5	75-125			
Silver	1.96	0.0220	"	2.20	0.0420	87.5	75-125			
Zinc	82.8	0.439	"	43.9	36.3	106	75-125			

Matrix Spike Dup (BEC0229-MSD1)

Source: 2102366-03

Prepared & Analyzed: 03/11/21

Arsenic	48.3	0.220	mg/kg dry	43.9	3.87	101	75-125	7.83	25
Barium	1860	0.439	"	43.9	1810	113	75-125	0.0462	25
Cadmium	2.38	0.220	"	2.20	0.154	101	75-125	7.05	25
Copper	56.5	0.439	"	43.9	12.9	99.2	75-125	5.71	25
Lead	28.3	0.220	"	22.0	7.52	94.4	75-125	1.87	25
Nickel	58.1	0.439	"	43.9	13.0	103	75-125	7.29	25
Selenium	4.31	0.286	"	4.39	ND	98.0	75-125	6.87	25
Silver	2.17	0.0220	"	2.20	0.0420	96.7	75-125	9.77	25
Zinc	90.4	0.439	"	43.9	36.3	123	75-125	8.80	25

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BEC0250 - 3060A Mod

Blank (BEC0250-BLK1)

Prepared & Analyzed: 03/12/21

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BEC0250-BS1)

Prepared & Analyzed: 03/12/21

Chromium, Hexavalent 22.2 0.30 mg/kg wet 25.0 89.0 80-120

Duplicate (BEC0250-DUP1)

Source: 2103121-01

Prepared & Analyzed: 03/12/21

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BEC0250-MS1)

Source: 2103121-01

Prepared & Analyzed: 03/12/21

Chromium, Hexavalent 24.5 0.30 mg/kg dry 28.1 ND 87.0 75-125

Matrix Spike Dup (BEC0250-MSD1)

Source: 2103121-01

Prepared & Analyzed: 03/12/21

Chromium, Hexavalent 24.5 0.30 mg/kg dry 28.1 ND 87.0 75-125 0.00 20

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BEC0292 - General Preparation

Blank (BEC0292-BLK1)

Prepared: 03/17/21 Analyzed: 03/19/21

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BEC0292-BS1)

Prepared: 03/17/21 Analyzed: 03/19/21

Calcium	4.34	0.0500	mg/L wet	5.00		86.8	70-130			
Magnesium	4.43	0.0500	"	5.00		88.7	70-130			
Sodium	4.31	0.0500	"	5.00		86.2	70-130			

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
 Project Manager: Brian Humphrey

Reported:
 03/19/21 11:53

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BEC0208 - General Preparation

Duplicate (BEC0208-DUP1)	Source: 2103151-04		Prepared: 03/10/21 Analyzed: 03/11/21	
% Solids	84.5	%	84.3	0.241 20

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BEC0324 - General Preparation

Blank (BEC0324-BLK1)

Prepared: 03/18/21 Analyzed: 03/19/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEC0324-BS1)

Prepared: 03/18/21 Analyzed: 03/19/21

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 90-110

Duplicate (BEC0324-DUP1)

Source: 2102356-03

Prepared: 03/18/21 Analyzed: 03/19/21

Specific Conductance (EC) 0.697 0.0100 mmhos/cm 0.697 0.0431 20

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BEC0325 - General Preparation

LCS (BEC0325-BS1)

Prepared: 03/18/21 Analyzed: 03/19/21

pH	9.18	pH Units	9.21	99.7	95-105
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Duplicate (BEC0325-DUP1)

Source: 2102356-03

Prepared: 03/18/21 Analyzed: 03/19/21

pH	8.05	pH Units	8.06	0.124	20
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Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/19/21 11:53

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 23, 2021

Brian Humphrey
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: DCP - Mewbourn
Work Order #2103180

Enclosed are the results of analyses for samples received by Summit Scientific on 03/10/21 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury
President



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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW02@12'	2103180-01	Soil	03/10/21 09:40	03/10/21 15:30
MW02@23'	2103180-02	Soil	03/10/21 10:00	03/10/21 15:30
MW04@17'	2103180-03	Soil	03/10/21 12:50	03/10/21 15:30
MW04@23'	2103180-04	Soil	03/10/21 13:00	03/10/21 15:30
MW05@13'	2103180-05	Soil	03/10/21 14:54	03/10/21 15:30
MW05@23'	2103180-06	Soil	03/10/21 15:05	03/10/21 15:30

Summit Scientific

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

2103180

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: DCP / Tasman

Project Manager: BHumphrey & S. Weathers / C. Cole

Address: -

E-Mail: BHumphrey@tasman-geo.com, CCole@dcpmidstream.com, SWeathers@dcpmidstream.com

City/State/Zip: -

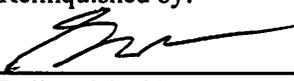
Phone: 303-487-1228

Project Name: Newbourn

Sampler Name: GB

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Table 915 VOCs & GAO	Table 915 PAHs	Table 915 Metals	Table 915 SAR, pH, EC, Boron	Table 915 ORO & ARO		
1	MW02 @ 12'	3/10/21	0940	3			X			X			X	X	X	X	X		
2	MW02 @ 23'	3/10/21	1000	3			X			X			X	X	X	X	X		
3	MW04 @ 17'	3/10/21	1250	3			X			X			X	X	X	X	X		
4	MW04 @ 23'	3/10/21	1300	3			X			X			X	X	X	X	X		
5	MW05 @ 13'	3/10/21	1454	3			X			X			X	X	X	X	X		
6	MW05 @ 23'	3/10/21	1505	3			X			X			X	X	X	X	X		
7																			
8																			
9																			
10																			

Relinquished by: 	Date/Time: 3/10/21 15:30	Received by: 	Date/Time: 3-10-21 15:30	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input checked="" type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: 4.1 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2103180

Client: DCP/TASMAN Client Project ID: MEWBURN

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C)	<u>4.1</u>
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Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>			
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form 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 w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	

Additional Comments (if any):

72 TAT

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

Custodian Printed Name or Initials

Signature of Custodian

Date/Time



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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW02@12'
2103180-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/10/21 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.17	0.0020	mg/kg	1	BEC0243	03/11/21	03/13/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	03/13/21	"	
Ethylbenzene	0.045	0.0050	"	"	"	"	03/13/21	"	
Xylenes (total)	ND	0.010	"	"	"	"	03/13/21	"	
1,2,4-Trimethylbenzene	0.086	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.40	0.0038	"	"	"	"	03/13/21	"	
Gasoline Range Hydrocarbons	60	5.0	"	10	"	"	03/13/21	"	

Date Sampled: **03/10/21 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	147 %	23-173	"	"	"	"	03/13/21	"	
Surrogate: Toluene-d8	110 %	20-170	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	974 %	21-167	"	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/10/21 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	590	50	mg/kg	1	BEC0258	03/12/21	03/13/21	EPA 8015M	
C28-C36 (ORO)	72	50	"	"	"	"	"	"	

Date Sampled: **03/10/21 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	105 %	30-150	"	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW02@12'
2103180-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/10/21 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0269	03/13/21	03/14/21	EPA 8270D SIM	
Anthracene	0.205	0.00500	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	0.0245	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
Pyrene	0.0118	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	0.895	0.0500	"	10	"	"	"	"	"
2-Methylnaphthalene	1.37	0.00500	"	1	"	"	"	"	"

Date Sampled: **03/10/21 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		70.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/10/21 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0199	0.0100	mg/L	1	BEC0278	03/16/21	03/18/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/10/21 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW02@12'
2103180-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.90	0.225	mg/kg dry	1	BEC0322	03/18/21	03/20/21	EPA 6020B	
Barium	81.4	0.450	"	"	"	"	"	"	
Cadmium	ND	0.225	"	"	"	"	"	"	
Copper	6.15	0.450	"	"	"	"	"	"	
Lead	5.70	0.225	"	"	"	"	"	"	
Nickel	6.16	0.450	"	"	"	"	"	"	
Selenium	0.599	0.292	"	"	"	"	"	"	
Silver	ND	0.0225	"	"	"	"	"	"	
Zinc	24.3	0.450	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/10/21 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0340	03/19/21	03/22/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/10/21 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.7	0.0562	mg/L dry	1	BEC0294	03/17/21	03/20/21	EPA 6020B	
Magnesium	22.1	0.0562	"	"	"	"	"	"	
Sodium	69.8	0.0562	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/10/21 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.01	0.100	units	1	BEC0358	03/22/21	03/22/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW02@12'
2103180-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/21 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	88.9			%	1	BEC0221	03/11/21	03/11/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/10/21 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.610	0.0100		mmhos/cm	1	BEC0352	03/19/21	03/19/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/10/21 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.44			pH Units	1	BEC0353	03/19/21	03/19/21	EPA 9045D	

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW02@23'
2103180-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/10/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0243	03/11/21	03/13/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/10/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		86.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/10/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0258	03/12/21	03/13/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW02@23'
2103180-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/10/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0269	03/13/21	03/14/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/10/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		51.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		47.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/10/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0122	0.0100	mg/L	1	BEC0278	03/16/21	03/18/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/10/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW02@23'
2103180-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.78	0.237	mg/kg dry	1	BEC0322	03/18/21	03/20/21	EPA 6020B
Barium	40.6	0.473	"	"	"	"	"	"
Cadmium	ND	0.237	"	"	"	"	"	"
Copper	4.60	0.473	"	"	"	"	"	"
Lead	4.69	0.237	"	"	"	"	"	"
Nickel	4.39	0.473	"	"	"	"	"	"
Selenium	0.409	0.308	"	"	"	"	"	"
Silver	ND	0.0237	"	"	"	"	"	"
Zinc	25.4	0.473	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/10/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0340	03/19/21	03/22/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/10/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.3	0.0591	mg/L dry	1	BEC0294	03/17/21	03/20/21	EPA 6020B	
Magnesium	12.9	0.0591	"	"	"	"	"	"	
Sodium	53.4	0.0591	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/10/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.67	0.100	units	1	BEC0358	03/22/21	03/22/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW02@23'
2103180-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.5		%	1	BEC0221	03/11/21	03/11/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/10/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.505	0.0100	mmhos/cm	1	BEC0352	03/19/21	03/19/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/10/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.36		pH Units	1	BEC0353	03/19/21	03/19/21	EPA 9045D	

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW04@17'
2103180-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/10/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0072	0.0020	mg/kg	1	BEC0243	03/11/21	03/13/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.027	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.13	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	7.0	0.50	"	100	"	"	"	"	
1,3,5-Trimethylbenzene	5.5	0.50	"	"	"	"	"	"	
Naphthalene	0.022	0.0038	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	9.5	0.50	"	"	"	"	"	"	

Date Sampled: **03/10/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		152 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		111 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		228 %	21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/10/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0258	03/12/21	03/13/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW04@17'
2103180-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/10/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0269	03/13/21	03/14/21	EPA 8270D SIM	
Anthracene	0.0193	0.00500	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00686	0.00500	"	"	"	"	"	"	
Fluorene	0.00853	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0479	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.101	0.00500	"	"	"	"	"	"	

Date Sampled: **03/10/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		51.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/10/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BEC0278	03/16/21	03/18/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/10/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW04@17'
2103180-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.67	0.236	mg/kg dry	1	BEC0322	03/18/21	03/20/21	EPA 6020B
Barium	82.2	0.473	"	"	"	"	"	"
Cadmium	ND	0.236	"	"	"	"	"	"
Copper	5.76	0.473	"	"	"	"	"	"
Lead	5.58	0.236	"	"	"	"	"	"
Nickel	5.29	0.473	"	"	"	"	"	"
Selenium	0.582	0.307	"	"	"	"	"	"
Silver	ND	0.0236	"	"	"	"	"	"
Zinc	24.6	0.473	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/10/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0340	03/19/21	03/22/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/10/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.5	0.0591	mg/L dry	1	BEC0294	03/17/21	03/20/21	EPA 6020B	
Magnesium	11.2	0.0591	"	"	"	"	"	"	
Sodium	18.6	0.0591	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/10/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.667	0.100	units	1	BEC0358	03/22/21	03/22/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW04@17'
2103180-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.6		%	1	BEC0221	03/11/21	03/11/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/10/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.300	0.0100	mmhos/cm	1	BEC0352	03/19/21	03/19/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/10/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.40		pH Units	1	BEC0353	03/19/21	03/19/21	EPA 9045D	

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Broomfield CO, 80020

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW04@23'
2103180-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/10/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0243	03/11/21	03/13/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/10/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		110 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/10/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0258	03/12/21	03/13/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW04@23'
2103180-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/10/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0269	03/13/21	03/14/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/10/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		63.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		60.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/10/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BEC0278	03/16/21	03/18/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/10/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW04@23'
2103180-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.83	0.235	mg/kg dry	1	BEC0322	03/18/21	03/20/21	EPA 6020B	
Barium	67.5	0.469	"	"	"	"	"	"	
Cadmium	ND	0.235	"	"	"	"	"	"	
Copper	11.3	0.469	"	"	"	"	"	"	
Lead	10.1	0.235	"	"	"	"	"	"	
Nickel	11.2	0.469	"	"	"	"	"	"	
Selenium	1.00	0.305	"	"	"	"	"	"	
Silver	ND	0.0235	"	"	"	"	"	"	
Zinc	54.2	0.469	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/10/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0340	03/19/21	03/22/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/10/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.3	0.0586	mg/L dry	1	BEC0344	03/19/21	03/22/21	EPA 6020B	
Magnesium	5.86	0.0586	"	"	"	"	"	"	
Sodium	16.7	0.0586	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/10/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.813	0.100	units	1	BEC0358	03/22/21	03/22/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW04@23'
2103180-04 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/21 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	85.3			%	1	BEC0221	03/11/21	03/11/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/10/21 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.460	0.0100		mmhos/cm	1	BEC0374	03/22/21	03/22/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/10/21 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.10			pH Units	1	BEC0375	03/22/21	03/22/21	EPA 9045D	

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW05@13'
2103180-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/10/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0243	03/11/21	03/13/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	76	5.0	"	10	"	"	"	"	

Date Sampled: **03/10/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		113 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		577 %	21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/10/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	250	50	mg/kg	1	BEC0258	03/12/21	03/13/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW05@13'
2103180-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/10/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0269	03/13/21	03/14/21	EPA 8270D SIM	
Anthracene	0.116	0.00500	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	0.0134	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
Pyrene	0.00671	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	0.499	0.0500	"	10	"	"	"	"	"
2-Methylnaphthalene	0.907	0.0500	"	"	"	"	"	"	"

Date Sampled: **03/10/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		52.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/10/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0141	0.0100	mg/L	1	BEC0278	03/16/21	03/18/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/10/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW05@13'
2103180-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.34	0.233	mg/kg dry	1	BEC0322	03/18/21	03/20/21	EPA 6020B	
Barium	60.8	0.466	"	"	"	"	"	"	
Cadmium	ND	0.233	"	"	"	"	"	"	
Copper	10.6	0.466	"	"	"	"	"	"	
Lead	4.70	0.233	"	"	"	"	"	"	
Nickel	4.66	0.466	"	"	"	"	"	"	
Selenium	0.540	0.303	"	"	"	"	"	"	
Silver	ND	0.0233	"	"	"	"	"	"	
Zinc	27.4	0.466	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/10/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0340	03/19/21	03/22/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/10/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.2	0.0582	mg/L dry	1	BEC0294	03/17/21	03/20/21	EPA 6020B	
Magnesium	8.70	0.0582	"	"	"	"	"	"	
Sodium	63.4	0.0582	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/10/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.14	0.100	units	1	BEC0358	03/22/21	03/22/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW05@13'
2103180-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.9		%	1	BEC0221	03/11/21	03/11/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/10/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.558	0.0100	mmhos/cm	1	BEC0352	03/19/21	03/19/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/10/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BEC0353	03/19/21	03/19/21	EPA 9045D	

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6855 W. 119th Ave.
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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW05@23'
2103180-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/10/21 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0243	03/11/21	03/13/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/10/21 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		126 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/10/21 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0258	03/12/21	03/13/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/21 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW05@23'
2103180-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/10/21 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0269	03/13/21	03/14/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/10/21 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		51.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		48.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/10/21 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0351	0.0100	mg/L	1	BEC0278	03/16/21	03/18/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/10/21 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW05@23'
2103180-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.46	0.252	mg/kg dry	1	BEC0322	03/18/21	03/20/21	EPA 6020B	
Barium	41.0	0.504	"	"	"	"	"	"	
Cadmium	ND	0.252	"	"	"	"	"	"	
Copper	5.10	0.504	"	"	"	"	"	"	
Lead	6.01	0.252	"	"	"	"	"	"	
Nickel	5.13	0.504	"	"	"	"	"	"	
Selenium	0.496	0.327	"	"	"	"	"	"	
Silver	ND	0.0252	"	"	"	"	"	"	
Zinc	28.3	0.504	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/10/21 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0340	03/19/21	03/22/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **03/10/21 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	81.4	0.0630	mg/L dry	1	BEC0294	03/17/21	03/20/21	EPA 6020B	
Magnesium	22.1	0.0630	"	"	"	"	"	"	
Sodium	101	0.0630	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/10/21 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.56	0.100	units	1	BEC0358	03/22/21	03/22/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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6855 W. 119th Ave.
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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

MW05@23'
2103180-06 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/21 15:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	79.4			%	1	BEC0221	03/11/21	03/11/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/10/21 15:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.904	0.0100		mmhos/cm	1	BEC0352	03/19/21	03/19/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **03/10/21 15:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.23			pH Units	1	BEC0353	03/19/21	03/19/21	EPA 9045D	

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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEC0243 - EPA 5030 Soil MS

Blank (BEC0243-BLK1)

Prepared: 03/11/21 Analyzed: 03/13/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0384		"	0.0400		96.0	23-173			
<i>Surrogate: Toluene-d8</i>	0.0432		"	0.0400		108	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0419		"	0.0400		105	21-167			

LCS (BEC0243-BS1)

Prepared: 03/11/21 Analyzed: 03/13/21

Benzene	0.0766	0.0020	mg/kg	0.100		76.6	70-130			
Toluene	0.116	0.0050	"	0.100		116	70-130			
Ethylbenzene	0.0965	0.0050	"	0.100		96.5	70-130			
m,p-Xylene	0.191	0.010	"	0.200		95.4	70-130			
o-Xylene	0.104	0.0050	"	0.100		104	70-130			
1,2,4-Trimethylbenzene	0.116	0.0050	"	0.100		116	70-130			
1,3,5-Trimethylbenzene	0.115	0.0050	"	0.100		115	70-130			
Naphthalene	0.0978	0.0038	"	0.100		97.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0376		"	0.0400		94.0	23-173			
<i>Surrogate: Toluene-d8</i>	0.0436		"	0.0400		109	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0459		"	0.0400		115	21-167			

Matrix Spike (BEC0243-MS1)

Source: 2103189-01

Prepared: 03/11/21 Analyzed: 03/13/21

Benzene	0.0804	0.0020	mg/kg	0.100	ND	80.4	70-130			
Toluene	0.114	0.0050	"	0.100	ND	114	70-130			
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130			
m,p-Xylene	0.206	0.010	"	0.200	ND	103	70-130			
o-Xylene	0.104	0.0050	"	0.100	ND	104	70-130			
1,2,4-Trimethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130			
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130			
Naphthalene	0.109	0.0038	"	0.100	ND	109	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0400		"	0.0400		100	23-173			
<i>Surrogate: Toluene-d8</i>	0.0434		"	0.0400		109	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0427		"	0.0400		107	21-167			

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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEC0243 - EPA 5030 Soil MS

Matrix Spike Dup (BEC0243-MSD1)	Source: 2103189-01			Prepared: 03/11/21 Analyzed: 03/13/21					
Benzene	0.0802	0.0020	mg/kg	0.100	ND	80.2	70-130	0.262	30
Toluene	0.114	0.0050	"	0.100	ND	114	70-130	0.0792	30
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	0.948	30
m,p-Xylene	0.204	0.010	"	0.200	ND	102	70-130	1.11	30
o-Xylene	0.101	0.0050	"	0.100	ND	101	70-130	3.07	30
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130	1.29	30
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130	0.166	30
Naphthalene	0.106	0.0038	"	0.100	ND	106	70-130	2.62	30
Surrogate: 1,2-Dichloroethane-d4	0.0382		"	0.0400		95.6	23-173		
Surrogate: Toluene-d8	0.0435		"	0.0400		109	20-170		
Surrogate: 4-Bromofluorobenzene	0.0419		"	0.0400		105	21-167		

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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEC0258 - EPA 3550A

Blank (BEC0258-BLK1)

Prepared: 03/12/21 Analyzed: 03/13/21

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								

LCS (BEC0258-BS1)

Prepared: 03/12/21 Analyzed: 03/13/21

C10-C28 (DRO)	478	50	mg/kg	500	595	95.7	70-130				
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Matrix Spike (BEC0258-MS1)

Source: 2103180-01

Prepared: 03/12/21 Analyzed: 03/13/21

C10-C28 (DRO)	880	50	mg/kg	500	595	57.1	70-130				QM-07
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Matrix Spike Dup (BEC0258-MSD1)

Source: 2103180-01

Prepared: 03/12/21 Analyzed: 03/13/21

C10-C28 (DRO)	892	50	mg/kg	500	595	59.5	70-130	1.36	20		QM-07
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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEC0269 - EPA 5030 Soil MS

Blank (BEC0269-BLK1)

Prepared: 03/13/21 Analyzed: 03/14/21

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0215</i>		<i>"</i>	<i>0.0333</i>		<i>64.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0215</i>		<i>"</i>	<i>0.0333</i>		<i>64.4</i>	<i>40-150</i>			

LCS (BEC0269-BS1)

Prepared: 03/13/21 Analyzed: 03/14/21

Acenaphthene	0.0356	0.00500	mg/kg	0.0333	107	31-137
Anthracene	0.0381	0.00500	"	0.0333	114	30-120
Benzo (a) anthracene	0.0358	0.00500	"	0.0333	107	30-120
Benzo (a) pyrene	0.0269	0.00500	"	0.0333	80.6	30-120
Benzo (b) fluoranthene	0.0314	0.00500	"	0.0333	94.1	30-120
Benzo (k) fluoranthene	0.0380	0.00500	"	0.0333	114	30-120
Chrysene	0.0348	0.00500	"	0.0333	104	30-120
Dibenz (a,h) anthracene	0.0398	0.00500	"	0.0333	119	30-120
Fluoranthene	0.0348	0.00500	"	0.0333	104	30-120
Fluorene	0.0347	0.00500	"	0.0333	104	30-120
Indeno (1,2,3-cd) pyrene	0.0396	0.00500	"	0.0333	119	30-120
Pyrene	0.0308	0.00500	"	0.0333	92.5	35-142
1-Methylnaphthalene	0.0348	0.00500	"	0.0333	104	35-142
2-Methylnaphthalene	0.0369	0.00500	"	0.0333	111	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0220</i>		<i>"</i>	<i>0.0333</i>	<i>65.9</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0226</i>		<i>"</i>	<i>0.0333</i>	<i>67.8</i>	<i>40-150</i>

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEC0269 - EPA 5030 Soil MS

Matrix Spike (BEC0269-MS1)	Source: 2103126-04			Prepared: 03/13/21 Analyzed: 03/14/21						
Acenaphthene	0.0334	0.00500	mg/kg	0.0333	ND	100	31-137			
Anthracene	0.0354	0.00500	"	0.0333	ND	106	30-120			
Benzo (a) anthracene	0.0317	0.00500	"	0.0333	ND	95.2	30-120			
Benzo (a) pyrene	0.0366	0.00500	"	0.0333	ND	110	30-120			
Benzo (b) fluoranthene	0.0378	0.00500	"	0.0333	ND	113	30-120			
Benzo (k) fluoranthene	0.0350	0.00500	"	0.0333	ND	105	30-120			
Chrysene	0.0319	0.00500	"	0.0333	ND	95.8	30-120			
Dibenz (a,h) anthracene	0.0364	0.00500	"	0.0333	ND	109	30-120			
Fluoranthene	0.0335	0.00500	"	0.0333	ND	101	30-120			
Fluorene	0.0315	0.00500	"	0.0333	ND	94.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0357	0.00500	"	0.0333	ND	107	30-120			
Pyrene	0.0280	0.00500	"	0.0333	ND	84.1	35-142			
1-Methylnaphthalene	0.0351	0.00500	"	0.0333	ND	105	15-130			
2-Methylnaphthalene	0.0345	0.00500	"	0.0333	ND	103	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0203</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>61.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0205</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>61.5</i>	<i>40-150</i>			

Matrix Spike Dup (BEC0269-MSD1)	Source: 2103126-04			Prepared: 03/13/21 Analyzed: 03/14/21						
Acenaphthene	0.0330	0.00500	mg/kg	0.0333	ND	99.0	31-137	1.13	30	
Anthracene	0.0355	0.00500	"	0.0333	ND	106	30-120	0.138	30	
Benzo (a) anthracene	0.0323	0.00500	"	0.0333	ND	96.9	30-120	1.75	30	
Benzo (a) pyrene	0.0365	0.00500	"	0.0333	ND	109	30-120	0.374	30	
Benzo (b) fluoranthene	0.0380	0.00500	"	0.0333	ND	114	30-120	0.543	30	
Benzo (k) fluoranthene	0.0354	0.00500	"	0.0333	ND	106	30-120	1.23	30	
Chrysene	0.0319	0.00500	"	0.0333	ND	95.8	30-120	0.0553	30	
Dibenz (a,h) anthracene	0.0354	0.00500	"	0.0333	ND	106	30-120	3.00	30	
Fluoranthene	0.0334	0.00500	"	0.0333	ND	100	30-120	0.424	30	
Fluorene	0.0316	0.00500	"	0.0333	ND	94.7	30-120	0.235	30	
Indeno (1,2,3-cd) pyrene	0.0354	0.00500	"	0.0333	ND	106	30-120	0.763	30	
Pyrene	0.0278	0.00500	"	0.0333	ND	83.5	35-142	0.771	30	
1-Methylnaphthalene	0.0335	0.00500	"	0.0333	ND	101	15-130	4.67	50	
2-Methylnaphthalene	0.0355	0.00500	"	0.0333	ND	106	15-130	2.94	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0204</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>61.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0207</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>62.0</i>	<i>40-150</i>			

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BEC0278 - EPA 3050B

Blank (BEC0278-BLK1)

Prepared: 03/16/21 Analyzed: 03/18/21

Boron ND 0.0100 mg/L

LCS (BEC0278-BS1)

Prepared: 03/16/21 Analyzed: 03/18/21

Boron 4.96 0.0100 mg/L 5.00 99.3 80-120

Duplicate (BEC0278-DUP1)

Source: 2103136-01

Prepared: 03/16/21 Analyzed: 03/18/21

Boron 0.102 0.0100 mg/L 0.0972 5.03 20

Matrix Spike (BEC0278-MS1)

Source: 2103136-01

Prepared: 03/16/21 Analyzed: 03/18/21

Boron 4.99 0.0100 mg/L 5.00 0.0972 97.8 75-125

Matrix Spike Dup (BEC0278-MSD1)

Source: 2103136-01

Prepared: 03/16/21 Analyzed: 03/18/21

Boron 5.02 0.0100 mg/L 5.00 0.0972 98.4 75-125 0.662 25

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Broomfield CO, 80020

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEC0322 - EPA 3050B

Blank (BEC0322-BLK1)

Prepared: 03/18/21 Analyzed: 03/20/21

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Selenium	ND	0.260	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							

LCS (BEC0322-BS1)

Prepared: 03/18/21 Analyzed: 03/20/21

Arsenic	45.9	0.200	mg/kg wet	40.0		115	80-120
Barium	36.7	0.400	"	40.0		91.8	80-120
Cadmium	2.04	0.200	"	2.00		102	80-120
Copper	36.7	0.400	"	40.0		91.7	80-120
Lead	18.4	0.200	"	20.0		92.0	80-120
Nickel	35.5	0.400	"	40.0		88.7	80-120
Selenium	4.03	0.260	"	4.00		101	80-120
Silver	1.79	0.0200	"	2.00		89.4	80-120
Zinc	47.2	0.400	"	40.0		118	80-120

Duplicate (BEC0322-DUP1)

Source: 2103180-01

Prepared: 03/18/21 Analyzed: 03/20/21

Arsenic	1.78	0.225	mg/kg dry		1.90		6.37	30
Barium	78.1	0.450	"		81.4		4.22	30
Cadmium	0.100	0.225	"		0.106		5.66	30
Copper	5.96	0.450	"		6.15		3.00	30
Lead	4.69	0.225	"		5.70		19.5	30
Nickel	6.02	0.450	"		6.16		2.31	30
Selenium	0.646	0.292	"		0.599		7.61	30
Silver	0.0124	0.0225	"		0.0159		24.3	30
Zinc	24.0	0.450	"		24.3		1.07	30

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEC0322 - EPA 3050B

Matrix Spike (BEC0322-MS1)

Source: 2103180-01

Prepared: 03/18/21 Analyzed: 03/20/21

Arsenic	54.0	0.225	mg/kg dry	45.0	1.90	116	75-125			
Barium	119	0.450	"	45.0	81.4	83.6	75-125			
Cadmium	2.42	0.225	"	2.25	0.106	103	75-125			
Copper	47.3	0.450	"	45.0	6.15	91.6	75-125			
Lead	24.5	0.225	"	22.5	5.70	83.8	75-125			
Nickel	47.2	0.450	"	45.0	6.16	91.2	75-125			
Selenium	5.08	0.292	"	4.50	0.599	99.6	75-125			
Silver	2.01	0.0225	"	2.25	0.0159	88.9	75-125			
Zinc	74.8	0.450	"	45.0	24.3	112	75-125			

Matrix Spike Dup (BEC0322-MSD1)

Source: 2103180-01

Prepared: 03/18/21 Analyzed: 03/20/21

Arsenic	53.0	0.225	mg/kg dry	45.0	1.90	114	75-125	1.71	25
Barium	124	0.450	"	45.0	81.4	94.8	75-125	4.13	25
Cadmium	2.31	0.225	"	2.25	0.106	98.0	75-125	4.68	25
Copper	46.7	0.450	"	45.0	6.15	90.2	75-125	1.29	25
Lead	24.0	0.225	"	22.5	5.70	81.3	75-125	2.27	25
Nickel	46.7	0.450	"	45.0	6.16	90.2	75-125	0.918	25
Selenium	4.89	0.292	"	4.50	0.599	95.5	75-125	3.71	25
Silver	1.95	0.0225	"	2.25	0.0159	86.0	75-125	3.24	25
Zinc	74.5	0.450	"	45.0	24.3	112	75-125	0.387	25

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BEC0340 - 3060A Mod

Blank (BEC0340-BLK1)

Prepared: 03/19/21 Analyzed: 03/22/21

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BEC0340-BS1)

Prepared: 03/19/21 Analyzed: 03/22/21

Chromium, Hexavalent 23.2 0.30 mg/kg wet 25.0 93.0 80-120

Duplicate (BEC0340-DUP1)

Source: 2103180-01

Prepared: 03/19/21 Analyzed: 03/22/21

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BEC0340-MS1)

Source: 2103180-01

Prepared: 03/19/21 Analyzed: 03/22/21

Chromium, Hexavalent 25.6 0.30 mg/kg dry 28.1 ND 91.0 75-125

Matrix Spike Dup (BEC0340-MSD1)

Source: 2103180-01

Prepared: 03/19/21 Analyzed: 03/22/21

Chromium, Hexavalent 25.4 0.30 mg/kg dry 28.1 ND 90.4 75-125 0.662 20

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BEC0294 - General Preparation

Blank (BEC0294-BLK1)

Prepared: 03/17/21 Analyzed: 03/19/21

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BEC0294-BS1)

Prepared: 03/17/21 Analyzed: 03/19/21

Calcium	5.21	0.0500	mg/L wet	5.00		104	70-130			
Magnesium	5.22	0.0500	"	5.00		104	70-130			
Sodium	5.26	0.0500	"	5.00		105	70-130			

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

Project: DCP - Mewbourn

Project Number: [none]
 Project Manager: Brian Humphrey

Reported:
 03/23/21 10:42

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BEC0221 - General Preparation

Duplicate (BEC0221-DUP1)		Source: 2103161-01			Prepared & Analyzed: 03/11/21					
% Solids	84.8		%		84.7			0.112	20	

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BEC0352 - General Preparation

Blank (BEC0352-BLK1)

Prepared & Analyzed: 03/19/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEC0352-BS1)

Prepared & Analyzed: 03/19/21

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 90-110

Duplicate (BEC0352-DUP1)

Source: 2103161-01

Prepared & Analyzed: 03/19/21

Specific Conductance (EC) 0.922 0.0100 mmhos/cm 0.908 1.53 20

Batch BEC0374 - General Preparation

Blank (BEC0374-BLK1)

Prepared & Analyzed: 03/22/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEC0374-BS1)

Prepared & Analyzed: 03/22/21

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 90-110

Duplicate (BEC0374-DUP1)

Source: 2103180-04

Prepared & Analyzed: 03/22/21

Specific Conductance (EC) 0.466 0.0100 mmhos/cm 0.460 1.34 20

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BEC0353 - General Preparation

LCS (BEC0353-BS1)		Prepared & Analyzed: 03/19/21								
pH	9.25		pH Units	9.21		100		95-105		
Duplicate (BEC0353-DUP1)		Source: 2103161-01		Prepared & Analyzed: 03/19/21						
pH	8.38		pH Units			8.46			0.950	20

Batch BEC0375 - General Preparation

LCS (BEC0375-BS1)		Prepared & Analyzed: 03/22/21								
pH	9.30		pH Units	9.21		101		95-105		
Duplicate (BEC0375-DUP1)		Source: 2103180-04		Prepared & Analyzed: 03/22/21						
pH	8.09		pH Units			8.10			0.124	20

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/23/21 10:42

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 25, 2021

Brian Humphrey
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: DCP - Mewbourn
Work Order #2103222

Enclosed are the results of analyses for samples received by Summit Scientific on 03/11/21 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury
President



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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW06@11'	2103222-01	Soil	03/11/21 09:54	03/11/21 17:00
MW06@23'	2103222-02	Soil	03/11/21 10:15	03/11/21 17:00

Summit Scientific

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

Summit Scientific

S₂

2102222

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client: DCP / Tasman Project Manager: B. Humphrey / C. Cole
 Address: _____ E-Mail: B.Humphrey@tasman-geo.com, c.cole@depwidsstream.com,
 City/State/Zip: _____ swweathers@depwidsstream.com
 Phone: 303-487-1228 Project Name: Melbourne
 Sampler Name: GB Project Number: -

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Table 915 VOCs + GRO	Table 915 PAHs	Table 915 MTALS	Table 915 SAR, PCB, EC, Benzene	Table 915 ORO + DRO		
1	MW06 @ 11'	3/11/21	0954	3			X			X				X	X	X	X	X	
2	MW06 @ 23'	3/11/21	1015	3			X			X				X	X	X	X	X	
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: 	Date/Time: 3/11/21 1345	Received by: 	Date/Time: 3-11-21 17:00	Turn Around Time (Check) Same Day _____ 72 hours <input checked="" type="checkbox"/> 24 hours _____ Standard _____ 48 hours _____ Sample Integrity: Temperature Upon Receipt: 4.3 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2103222

Client: DCP/Tasman Client Project ID: Mewbourn

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

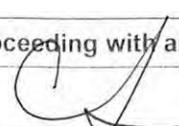
Temp (°C)	4.3
-----------	-----

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	✓			
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?		✓		
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			✓	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any): 				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

CS

Custodian Printed Name or Initials


Signature of Custodian

3/11/21

Date/Time



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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

MW06@11'
2103222-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/21 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0261	03/12/21	03/17/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/11/21 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		80.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		115 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/11/21 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0280	03/16/21	03/17/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/11/21 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

MW06@11'
2103222-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/21 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0323	03/18/21	03/19/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Naphthalene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/11/21 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		79.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		77.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/11/21 09:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0884	0.0100	mg/L	1	BEC0365	03/22/21	03/25/21	EPA 6020B	

Total Metals by EPA 6020B

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

MW06@11'
2103222-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/11/21 09:54**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.01	0.235	mg/kg dry	1	BEC0322	03/18/21	03/20/21	EPA 6020B	
Barium	121	0.470	"	"	"	"	"	"	
Cadmium	ND	0.235	"	"	"	"	"	"	
Copper	7.08	0.470	"	"	"	"	"	"	
Lead	6.73	0.235	"	"	"	"	"	"	
Nickel	7.96	0.470	"	"	"	"	"	"	
Selenium	0.887	0.305	"	"	"	"	"	"	
Silver	ND	0.0235	"	"	"	"	"	"	
Zinc	39.5	0.470	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/11/21 09:54**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0340	03/19/21	03/22/21	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/11/21 09:54**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	85.1		%	1	BEC0318	03/18/21	03/18/21	Calculation	

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

MW06@23'
2103222-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0261	03/12/21	03/17/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/11/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		121 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/11/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0280	03/16/21	03/17/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/11/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

MW06@23'
2103222-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEC0323	03/18/21	03/19/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Naphthalene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/11/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		80.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		76.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/11/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.147	0.0100	mg/L	1	BEC0365	03/22/21	03/25/21	EPA 6020B	

Total Metals by EPA 6020B

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

MW06@23'
2103222-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/11/21 10:15**

Analyte	Result	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
Arsenic	3.13	0.228	mg/kg dry	1	BEC0322	03/18/21	03/20/21	EPA 6020B		
Barium	38.5	0.456	"	"	"	"	"	"	"	"
Cadmium	ND	0.228	"	"	"	"	"	"	"	"
Copper	5.22	0.456	"	"	"	"	"	"	"	"
Lead	5.52	0.228	"	"	"	"	"	"	"	"
Nickel	4.97	0.456	"	"	"	"	"	"	"	"
Selenium	0.510	0.296	"	"	"	"	"	"	"	"
Silver	ND	0.0228	"	"	"	"	"	"	"	"
Zinc	27.1	0.456	"	"	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/11/21 10:15**

Analyte	Result	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEC0340	03/19/21	03/22/21	EPA 7196A		

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/11/21 10:15**

Analyte	Result	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
% Solids	87.8		%	1	BEC0318	03/18/21	03/18/21	Calculation		

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Tasman Geosciences
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Broomfield CO, 80020

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEC0261 - EPA 5030 Soil MS

Blank (BEC0261-BLK1)

Prepared: 03/12/21 Analyzed: 03/17/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0290		"	0.0400		72.6	23-173			
<i>Surrogate: Toluene-d8</i>	0.0482		"	0.0400		120	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0421		"	0.0400		105	21-167			

LCS (BEC0261-BS1)

Prepared: 03/12/21 Analyzed: 03/17/21

Benzene	0.0891	0.0020	mg/kg	0.100		89.1	70-130			
Toluene	0.0895	0.0050	"	0.100		89.5	70-130			
Ethylbenzene	0.0849	0.0050	"	0.100		84.9	70-130			
m,p-Xylene	0.154	0.010	"	0.200		77.0	70-130			
o-Xylene	0.0792	0.0050	"	0.100		79.2	70-130			
1,2,4-Trimethylbenzene	0.0808	0.0050	"	0.100		80.8	70-130			
1,3,5-Trimethylbenzene	0.0767	0.0050	"	0.100		76.7	70-130			
Naphthalene	0.0878	0.0038	"	0.100		87.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0246		"	0.0400		61.6	23-173			
<i>Surrogate: Toluene-d8</i>	0.0429		"	0.0400		107	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0387		"	0.0400		96.7	21-167			

Matrix Spike (BEC0261-MS1)

Source: 2103217-01

Prepared: 03/12/21 Analyzed: 03/17/21

Benzene	0.0919	0.0020	mg/kg	0.100	ND	91.9	70-130			
Toluene	0.101	0.0050	"	0.100	ND	101	70-130			
Ethylbenzene	0.0928	0.0050	"	0.100	ND	92.8	70-130			
m,p-Xylene	0.171	0.010	"	0.200	ND	85.6	70-130			
o-Xylene	0.0858	0.0050	"	0.100	ND	85.8	70-130			
1,2,4-Trimethylbenzene	0.0920	0.0050	"	0.100	ND	92.0	70-130			
1,3,5-Trimethylbenzene	0.0871	0.0050	"	0.100	ND	87.1	70-130			
Naphthalene	0.0897	0.0038	"	0.100	ND	89.7	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0244		"	0.0400		61.1	23-173			
<i>Surrogate: Toluene-d8</i>	0.0469		"	0.0400		117	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0408		"	0.0400		102	21-167			

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEC0261 - EPA 5030 Soil MS

Matrix Spike Dup (BEC0261-MSD1)	Source: 2103217-01			Prepared: 03/12/21 Analyzed: 03/17/21						
Benzene	0.0705	0.0020	mg/kg	0.100	ND	70.5	70-130	26.3	30	
Toluene	0.103	0.0050	"	0.100	ND	103	70-130	1.59	30	
Ethylbenzene	0.0997	0.0050	"	0.100	ND	99.7	70-130	7.14	30	
m,p-Xylene	0.177	0.010	"	0.200	ND	88.5	70-130	3.31	30	
o-Xylene	0.0896	0.0050	"	0.100	ND	89.6	70-130	4.34	30	
1,2,4-Trimethylbenzene	0.0940	0.0050	"	0.100	ND	94.0	70-130	2.19	30	
1,3,5-Trimethylbenzene	0.0883	0.0050	"	0.100	ND	88.3	70-130	1.33	30	
Naphthalene	0.0963	0.0038	"	0.100	ND	96.3	70-130	7.10	30	
Surrogate: 1,2-Dichloroethane-d4	0.0269		"	0.0400		67.3	23-173			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.6	21-167			

Summit Scientific

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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEC0280 - EPA 3550A

Blank (BEC0280-BLK1)

Prepared & Analyzed: 03/16/21

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BEC0280-BS1)

Prepared & Analyzed: 03/16/21

C10-C28 (DRO)	552	50	mg/kg	500	110	99.2	70-130			
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Matrix Spike (BEC0280-MS1)

Source: 2103218-01

Prepared & Analyzed: 03/16/21

C10-C28 (DRO)	522	50	mg/kg	500	26.2	99.2	70-130			
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Matrix Spike Dup (BEC0280-MSD1)

Source: 2103218-01

Prepared & Analyzed: 03/16/21

C10-C28 (DRO)	458	50	mg/kg	500	26.2	86.4	70-130	13.1	20	
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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEC0323 - EPA 5030 Soil MS

Blank (BEC0323-BLK1)

Prepared: 03/18/21 Analyzed: 03/19/21

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Naphthalene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0368</i>		<i>"</i>	<i>0.0333</i>		<i>110</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0331</i>		<i>"</i>	<i>0.0333</i>		<i>99.2</i>		<i>40-150</i>		

LCS (BEC0323-BS1)

Prepared: 03/18/21 Analyzed: 03/19/21

Acenaphthene	0.0303	0.00500	mg/kg	0.0333		90.8		31-137		
Anthracene	0.0303	0.00500	"	0.0333		90.9		30-120		
Benzo (a) anthracene	0.0293	0.00500	"	0.0333		87.9		30-120		
Benzo (a) pyrene	0.0306	0.00500	"	0.0333		91.8		30-120		
Benzo (b) fluoranthene	0.0327	0.00500	"	0.0333		98.2		30-120		
Benzo (k) fluoranthene	0.0311	0.00500	"	0.0333		93.3		30-120		
Chrysene	0.0293	0.00500	"	0.0333		87.9		30-120		
Dibenz (a,h) anthracene	0.0257	0.00500	"	0.0333		77.0		30-120		
Fluoranthene	0.0299	0.00500	"	0.0333		89.7		30-120		
Fluorene	0.0278	0.00500	"	0.0333		83.3		30-120		
Indeno (1,2,3-cd) pyrene	0.0249	0.00500	"	0.0333		74.7		30-120		
Naphthalene	0.0297	0.00500	"	0.0333		89.2		30-120		
Pyrene	0.0267	0.00500	"	0.0333		80.1		35-142		
1-Methylnaphthalene	0.0291	0.00500	"	0.0333		87.4		35-142		
2-Methylnaphthalene	0.0323	0.00500	"	0.0333		96.8		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0333</i>		<i>"</i>	<i>0.0333</i>		<i>99.8</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0337</i>		<i>"</i>	<i>0.0333</i>		<i>101</i>		<i>40-150</i>		

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEC0323 - EPA 5030 Soil MS

Matrix Spike (BEC0323-MS1)	Source: 2103126-01			Prepared: 03/18/21 Analyzed: 03/19/21						
Acenaphthene	0.0334	0.00500	mg/kg	0.0333	ND	100	31-137			
Anthracene	0.0343	0.00500	"	0.0333	ND	103	30-120			
Benzo (a) anthracene	0.0329	0.00500	"	0.0333	ND	98.6	30-120			
Benzo (a) pyrene	0.0344	0.00500	"	0.0333	ND	103	30-120			
Benzo (b) fluoranthene	0.0365	0.00500	"	0.0333	ND	109	30-120			
Benzo (k) fluoranthene	0.0349	0.00500	"	0.0333	ND	105	30-120			
Chrysene	0.0327	0.00500	"	0.0333	ND	98.0	30-120			
Dibenz (a,h) anthracene	0.0290	0.00500	"	0.0333	ND	87.0	30-120			
Fluoranthene	0.0318	0.00500	"	0.0333	ND	95.3	30-120			
Fluorene	0.0310	0.00500	"	0.0333	ND	92.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0278	0.00500	"	0.0333	ND	83.3	30-120			
Naphthalene	0.0340	0.00500	"	0.0333	ND	102	30-120			
Pyrene	0.0299	0.00500	"	0.0333	ND	89.8	35-142			
1-Methylnaphthalene	0.0343	0.00500	"	0.0333	ND	103	15-130			
2-Methylnaphthalene	0.0349	0.00500	"	0.0333	ND	105	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0371</i>		<i>"</i>	<i>0.0333</i>		<i>111</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0350</i>		<i>"</i>	<i>0.0333</i>		<i>105</i>	<i>40-150</i>			

Matrix Spike Dup (BEC0323-MSD1)	Source: 2103126-01			Prepared: 03/18/21 Analyzed: 03/19/21						
Acenaphthene	0.0340	0.00500	mg/kg	0.0333	ND	102	31-137	1.82	30	
Anthracene	0.0353	0.00500	"	0.0333	ND	106	30-120	2.87	30	
Benzo (a) anthracene	0.0333	0.00500	"	0.0333	ND	99.9	30-120	1.34	30	
Benzo (a) pyrene	0.0345	0.00500	"	0.0333	ND	104	30-120	0.486	30	
Benzo (b) fluoranthene	0.0372	0.00500	"	0.0333	ND	112	30-120	2.06	30	
Benzo (k) fluoranthene	0.0354	0.00500	"	0.0333	ND	106	30-120	1.42	30	
Chrysene	0.0334	0.00500	"	0.0333	ND	100	30-120	2.19	30	
Dibenz (a,h) anthracene	0.0296	0.00500	"	0.0333	ND	88.9	30-120	2.11	30	
Fluoranthene	0.0331	0.00500	"	0.0333	ND	99.4	30-120	4.31	30	
Fluorene	0.0285	0.00500	"	0.0333	ND	85.5	30-120	8.32	30	
Indeno (1,2,3-cd) pyrene	0.0289	0.00500	"	0.0333	ND	86.8	30-120	4.17	30	
Naphthalene	0.0346	0.00500	"	0.0333	ND	104	30-120	1.77	30	
Pyrene	0.0300	0.00500	"	0.0333	ND	89.9	35-142	0.118	30	
1-Methylnaphthalene	0.0362	0.00500	"	0.0333	ND	109	15-130	5.42	50	
2-Methylnaphthalene	0.0375	0.00500	"	0.0333	ND	112	15-130	7.07	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0382</i>		<i>"</i>	<i>0.0333</i>		<i>115</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0366</i>		<i>"</i>	<i>0.0333</i>		<i>110</i>	<i>40-150</i>			

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BEC0365 - EPA 3050B

Blank (BEC0365-BLK1)

Prepared: 03/22/21 Analyzed: 03/24/21

Boron ND 0.0100 mg/L

LCS (BEC0365-BS1)

Prepared: 03/22/21 Analyzed: 03/24/21

Boron 5.19 0.0100 mg/L 5.00 104 80-120

Duplicate (BEC0365-DUP1)

Source: 2103178-01

Prepared: 03/22/21 Analyzed: 03/24/21

Boron 0.214 0.0100 mg/L 0.237 9.99 20

Matrix Spike (BEC0365-MS1)

Source: 2103178-01

Prepared: 03/22/21 Analyzed: 03/24/21

Boron 5.50 0.0100 mg/L 5.00 0.237 105 75-125

Matrix Spike Dup (BEC0365-MSD1)

Source: 2103178-01

Prepared: 03/22/21 Analyzed: 03/24/21

Boron 5.49 0.0100 mg/L 5.00 0.237 105 75-125 0.241 25

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEC0322 - EPA 3050B

Blank (BEC0322-BLK1)

Prepared: 03/18/21 Analyzed: 03/20/21

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Selenium	ND	0.260	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							

LCS (BEC0322-BS1)

Prepared: 03/18/21 Analyzed: 03/20/21

Arsenic	45.9	0.200	mg/kg wet	40.0		115	80-120
Barium	36.7	0.400	"	40.0		91.8	80-120
Cadmium	2.04	0.200	"	2.00		102	80-120
Copper	36.7	0.400	"	40.0		91.7	80-120
Lead	18.4	0.200	"	20.0		92.0	80-120
Nickel	35.5	0.400	"	40.0		88.7	80-120
Selenium	4.03	0.260	"	4.00		101	80-120
Silver	1.79	0.0200	"	2.00		89.4	80-120
Zinc	47.2	0.400	"	40.0		118	80-120

Duplicate (BEC0322-DUP1)

Source: 2103180-01

Prepared: 03/18/21 Analyzed: 03/20/21

Arsenic	1.78	0.225	mg/kg dry		1.90		6.37	30
Barium	78.1	0.450	"		81.4		4.22	30
Cadmium	0.100	0.225	"		0.106		5.66	30
Copper	5.96	0.450	"		6.15		3.00	30
Lead	4.69	0.225	"		5.70		19.5	30
Nickel	6.02	0.450	"		6.16		2.31	30
Selenium	0.646	0.292	"		0.599		7.61	30
Silver	0.0124	0.0225	"		0.0159		24.3	30
Zinc	24.0	0.450	"		24.3		1.07	30

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEC0322 - EPA 3050B

Matrix Spike (BEC0322-MS1)

Source: 2103180-01

Prepared: 03/18/21 Analyzed: 03/20/21

Arsenic	54.0	0.225	mg/kg dry	45.0	1.90	116	75-125		
Barium	119	0.450	"	45.0	81.4	83.6	75-125		
Cadmium	2.42	0.225	"	2.25	0.106	103	75-125		
Copper	47.3	0.450	"	45.0	6.15	91.6	75-125		
Lead	24.5	0.225	"	22.5	5.70	83.8	75-125		
Nickel	47.2	0.450	"	45.0	6.16	91.2	75-125		
Selenium	5.08	0.292	"	4.50	0.599	99.6	75-125		
Silver	2.01	0.0225	"	2.25	0.0159	88.9	75-125		
Zinc	74.8	0.450	"	45.0	24.3	112	75-125		

Matrix Spike Dup (BEC0322-MSD1)

Source: 2103180-01

Prepared: 03/18/21 Analyzed: 03/20/21

Arsenic	53.0	0.225	mg/kg dry	45.0	1.90	114	75-125	1.71	25
Barium	124	0.450	"	45.0	81.4	94.8	75-125	4.13	25
Cadmium	2.31	0.225	"	2.25	0.106	98.0	75-125	4.68	25
Copper	46.7	0.450	"	45.0	6.15	90.2	75-125	1.29	25
Lead	24.0	0.225	"	22.5	5.70	81.3	75-125	2.27	25
Nickel	46.7	0.450	"	45.0	6.16	90.2	75-125	0.918	25
Selenium	4.89	0.292	"	4.50	0.599	95.5	75-125	3.71	25
Silver	1.95	0.0225	"	2.25	0.0159	86.0	75-125	3.24	25
Zinc	74.5	0.450	"	45.0	24.3	112	75-125	0.387	25

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BEC0340 - 3060A Mod

Blank (BEC0340-BLK1)

Prepared: 03/19/21 Analyzed: 03/22/21

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BEC0340-BS1)

Prepared: 03/19/21 Analyzed: 03/22/21

Chromium, Hexavalent 23.2 0.30 mg/kg wet 25.0 93.0 80-120

Duplicate (BEC0340-DUP1)

Source: 2103180-01

Prepared: 03/19/21 Analyzed: 03/22/21

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BEC0340-MS1)

Source: 2103180-01

Prepared: 03/19/21 Analyzed: 03/22/21

Chromium, Hexavalent 25.6 0.30 mg/kg dry 28.1 ND 91.0 75-125

Matrix Spike Dup (BEC0340-MSD1)

Source: 2103180-01

Prepared: 03/19/21 Analyzed: 03/22/21

Chromium, Hexavalent 25.4 0.30 mg/kg dry 28.1 ND 90.4 75-125 0.662 20

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

Project: DCP - Mewbourn

Project Number: [none]
 Project Manager: Brian Humphrey

Reported:
 03/25/21 11:06

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BEC0318 - General Preparation

Duplicate (BEC0318-DUP1)	Source: 2103221-01			Prepared & Analyzed: 03/18/21							
% Solids	97.3		%		97.3				0.00	20	

Summit Scientific

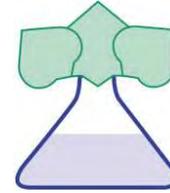
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

American Agricultural Laboratory, Inc.

700 West D Street / PO Box 370 / McCook, Nebraska 69001

Office: 308-345-3670 / FAX: 308-345-7880

www.AmAgLab.com



20491

SUMMIT SCIENTIFIC

4653 TABLE MOUNTAIN DRIVE, SUITE B

GOLDEN CO 80403

NAME : 2103222

DATE RECEIVED: 03/19/2021

DATE REPORTED: 03/25/2021

SOIL TEST RESULTS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	Depth Inches	pH		EL	SOLUBLE SALTS mod. SP mmhos/cm	OM LOI %	NITRATE-N (FIA)		PHOSPHORUS						
				1 : 1 Soil	Buffer Woodruff				ppm	lbs/A	P1 ppm	Bicarb ppm	P2 ppm	M2 ppm	M3 ppm		
3326753	MW06 AT 11		0-132														
3326754	MW06 AT 23		0-276														

LAB NUMBER	SULFATE-S Ca-P ppm	NH4OAc (Exchangeable)				DTPA				BORON Sorbitol ppm	EST. CATION EXCHANGE CAPACITY (CEC) me/100g	% SATURATION						
		K ppm	Ca ppm	Mg ppm	Na ppm	Zn ppm	Fe ppm	Mn ppm	Cu ppm			BASE	H	Ca	Mg	K	Na	
3326753																		
3326754																		

LAB NUMBER	SOLUBLE (SAT. EXT.)			SODIUM ADSORPTION RATIO (SAR)	EXCH. SODIUM PERCENT (ESP)	GYPSUM REQ T/A	PARTICLE SIZE ANALYSIS				CHLORIDE		EXCH. NH4-N		ALUMINUM ppm	TOTAL N %
	Ca me/L	Mg me/L	Na me/L				SAND %	SILT %	CLAY %	SOIL TEXTURE		ppm	lbs/A	ppm		
3326753	2.73	0.71	3.94	3.00	3	0										
3326754	3.93	1.36	4.14	2.55	3	0										

SUGGESTED FERTILIZER RECOMMENDATIONS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	CROP TO BE GROWN	YIELD GOAL	N	P2O5	K2O	S	Zn	MgO	Fe	Mn	Cu	B	Cl	LIME REC 60% ECCE T/A
3326753	MW06 AT 11															
3326754	MW06 AT 23															

Approved By: Kevin Grooms

Analysis By: American Agricultural Lab

Recommendations By: American Agricultural Lab

American Agricultural Laboratory, Inc.

700 West D St. / P.O. Box 370 / McCook, Nebraska 69001

Office: 308-345-3670 / FAX: 308-345-7880 / www.AmAgLab.com

"Analysis You Can Grow With"



SUMMIT SCIENTIFIC
4653 TABLE MOUNTAIN DRIVE SUITE B
GOLDEN, CO 80403

ACCOUNT NO: 20491
DATE RECEIVED: 03/19/2021
DATE REPORTED: 03/23/2021

SATURATED PASTE EXTRACT ANALYSIS

Lab No.	Grower	Sample ID	Depth inches	pH s.u.	Soluble Salts mmhos/cm
3326753	2103222	MW06@11'	0-132	8.1	0.40
3326754	2103222	MW06@23'	0-276	8.0	0.51

By: Electronically Approved Kevin Grooms



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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/25/21 11:06

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 13, 2021

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

RE: Mewbourn

Work Order #2104031

Enclosed are the results of analyses for samples received by Summit Scientific on 04/02/21 17:36. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



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

Project: Mewbourn
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/13/21 15:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Ditch Soil-01	2104031-01	Soil	04/02/21 09:50	04/02/21 17:36
Spoil Soil-01	2104031-02	Soil	04/02/21 10:00	04/02/21 17:36

Summit Scientific

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

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Client: DCP/Tasman
Address: 6855 W 119th Ave
City/State/Zip: Broomfield, CO 80020
Phone: 303-487-1228 Fax:
Sampler Name: Brian Gabel

Project Manager: Brian Humphrey / Steve Weather / Chandler Cole / Jeb Watts
E-Mail: bhumphrey@tasman-geo.com / sweather@dcp-midstream.com /
Project Name: Mewbourn ccole@dcp-midstream.com / jwatts@tasman-geo.com
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:					Special Instructions	
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	Table 9/5 VOCs	Table 9/5 TPH	PAHs	Naphthalene		EC, SAR, PH, Boron
Ditch Soil - 01	4/2/21	0950	3			X			X			X	X	X	X	X	SAME DAY
Spoil Soil - 01	4/2/21	1000	3			X			X			X	X	X	X	X	

Relinquished by: <u>Chris Stahl</u>	Date/Time: <u>4/2/21 11:30</u>	Received by: <u>Josh Brown</u>	Date/Time: <u>4/2/21 16:36</u>	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 48 Hours <input type="checkbox"/>	Notes: PAHs = benz(a)anthracene 1 and 2 methyl naphthalene Fluorene
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: <u>17</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2104031

Client: DLP / Tasman Client Project ID: Mewbourn

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C)	17
-----------	----

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	✓			On ice.
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?	✓			Same day.
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			✓	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				
(1) If NO, then contact the client before proceeding with analysis and note in case narrative.				

JB
Custodian Printed Name or Initials

Josh Ben
Signature of Custodian

4/2/21 18:50
Date/Time



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

Project: Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/13/21 15:13

Ditch Soil-01
2104031-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/02/21 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BED0048	04/02/21	04/03/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/02/21 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		82.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		77.0 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/02/21 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BED0049	"	04/03/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/02/21 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		107 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/13/21 15:13

Ditch Soil-01
2104031-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/02/21 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) anthracene	ND	0.00500	mg/kg	1	BED0063	04/05/21	04/06/21	EPA 8270D SIM	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/02/21 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		68.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/02/21 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.230	0.0100	mg/L	1	BED0172	04/09/21	04/11/21	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/02/21 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.4	0.0633	mg/L dry	1	BED0168	04/09/21	04/13/21	EPA 6020B	
Magnesium	19.1	0.0633	"	"	"	"	"	"	
Sodium	73.1	0.0633	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/02/21 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.56	0.100	units	1	BED0223	04/13/21	04/13/21	Calculation	

Summit Scientific

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

Project: Mewbourn
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/13/21 15:13

Ditch Soil-01
2104031-01 (Soil)

Summit Scientific

Calculated Analysis

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/02/21 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.0		%	1	BED0053	04/05/21	04/06/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/02/21 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.765	0.0100	mmhos/cm	1	BED0200	04/12/21	04/12/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **04/02/21 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.83		pH Units	1	BED0201	04/12/21	04/12/21	EPA 9045D	

Summit Scientific

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

Project: Mewbourn
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/13/21 15:13

Spoil Soil-01
2104031-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/02/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BED0048	04/02/21	04/03/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/02/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		80.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		76.3 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/02/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BED0049	"	04/03/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/02/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		129 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Mewbourn
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/13/21 15:13

Spoil Soil-01
2104031-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/02/21 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzo (a) anthracene	ND	0.00500	mg/kg	1	BED0063	04/05/21	04/06/21	EPA 8270D SIM	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/02/21 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10		75.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		72.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/02/21 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	0.229	0.0100	mg/L	1	BED0172	04/09/21	04/11/21	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/02/21 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	73.0	0.0556	mg/L dry	1	BED0168	04/09/21	04/13/21	EPA 6020B	
Magnesium	26.0	0.0556	"	"	"	"	"	"	
Sodium	95.1	0.0556	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/02/21 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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

Project: Mewbourn
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/13/21 15:13

Spoil Soil-01
2104031-02 (Soil)

Summit Scientific

Calculated Analysis

Sodium Adsorption Ratio	2.43	0.100	units	1	BED0223	04/13/21	04/13/21	Calculation
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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/02/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.9		%	1	BED0053	04/05/21	04/06/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/02/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.39	0.0100	mmhos/cm	1	BED0200	04/12/21	04/12/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **04/02/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.66		pH Units	1	BED0201	04/12/21	04/12/21	EPA 9045D	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/13/21 15:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BED0048 - EPA 5030 Soil MS

Blank (BED0048-BLK1)

Prepared & Analyzed: 04/02/21

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0426</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>		<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0326</i>		<i>"</i>	<i>0.0400</i>		<i>81.4</i>		<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0321</i>		<i>"</i>	<i>0.0400</i>		<i>80.3</i>		<i>21-167</i>			

LCS (BED0048-BS1)

Prepared & Analyzed: 04/02/21

Benzene	0.103	0.0020	mg/kg	0.100		103		70-130			
Toluene	0.0958	0.0050	"	0.100		95.8		70-130			
Ethylbenzene	0.114	0.0050	"	0.100		114		70-130			
m,p-Xylene	0.224	0.010	"	0.200		112		70-130			
o-Xylene	0.114	0.0050	"	0.100		114		70-130			
1,2,4-Trimethylbenzene	0.108	0.0050	"	0.100		108		70-130			
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100		102		70-130			
Naphthalene	0.0960	0.0038	"	0.100		96.0		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0430</i>		<i>"</i>	<i>0.0400</i>		<i>108</i>		<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0331</i>		<i>"</i>	<i>0.0400</i>		<i>82.7</i>		<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0297</i>		<i>"</i>	<i>0.0400</i>		<i>74.2</i>		<i>21-167</i>			

Matrix Spike (BED0048-MS1)

Source: 2104030-01

Prepared & Analyzed: 04/02/21

Benzene	0.104	0.0020	mg/kg	0.100	ND	104		70-130			
Toluene	0.0975	0.0050	"	0.100	ND	97.5		70-130			
Ethylbenzene	0.0925	0.0050	"	0.100	ND	92.5		70-130			
m,p-Xylene	0.184	0.010	"	0.200	0.00423	90.1		70-130			
o-Xylene	0.0950	0.0050	"	0.100	ND	95.0		70-130			
1,2,4-Trimethylbenzene	0.0899	0.0050	"	0.100	ND	89.9		70-130			
1,3,5-Trimethylbenzene	0.0840	0.0050	"	0.100	ND	84.0		70-130			
Naphthalene	0.0880	0.0038	"	0.100	ND	88.0		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0425</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>		<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0331</i>		<i>"</i>	<i>0.0400</i>		<i>82.7</i>		<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0318</i>		<i>"</i>	<i>0.0400</i>		<i>79.4</i>		<i>21-167</i>			

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Broomfield CO, 80020

Project: Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/13/21 15:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BED0048 - EPA 5030 Soil MS

Matrix Spike Dup (BED0048-MSD1)	Source: 2104030-01			Prepared & Analyzed: 04/02/21						
Benzene	0.0986	0.0020	mg/kg	0.100	ND	98.6	70-130	5.13	30	
Toluene	0.0933	0.0050	"	0.100	ND	93.3	70-130	4.34	30	
Ethylbenzene	0.0899	0.0050	"	0.100	ND	89.9	70-130	2.83	30	
m,p-Xylene	0.182	0.010	"	0.200	0.00423	88.7	70-130	1.57	30	
o-Xylene	0.0912	0.0050	"	0.100	ND	91.2	70-130	4.09	30	
1,2,4-Trimethylbenzene	0.0908	0.0050	"	0.100	ND	90.8	70-130	0.897	30	
1,3,5-Trimethylbenzene	0.0862	0.0050	"	0.100	ND	86.2	70-130	2.64	30	
Naphthalene	0.0923	0.0038	"	0.100	ND	92.3	70-130	4.79	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0420</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0363</i>		<i>"</i>	<i>0.0400</i>		<i>90.8</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0344</i>		<i>"</i>	<i>0.0400</i>		<i>86.0</i>	<i>21-167</i>			

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Project: Mewbourn
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/13/21 15:13

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BED0049 - EPA 3550A

Blank (BED0049-BLK1)

Prepared & Analyzed: 04/02/21

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								

LCS (BED0049-BS1)

Prepared & Analyzed: 04/02/21

C10-C28 (DRO)	548	50	mg/kg	500	110	70-130					
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Matrix Spike (BED0049-MS1)

Source: 2104030-01

Prepared & Analyzed: 04/02/21

C10-C28 (DRO)	463	50	mg/kg	500	13.9	89.9	70-130				
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Matrix Spike Dup (BED0049-MSD1)

Source: 2104030-01

Prepared & Analyzed: 04/02/21

C10-C28 (DRO)	449	50	mg/kg	500	13.9	87.0	70-130	3.11	20		
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Project: Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/13/21 15:13

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BED0063 - EPA 5030 Soil MS

Blank (BED0063-BLK1)

Prepared & Analyzed: 04/05/21

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0318</i>		"	<i>0.0333</i>		<i>95.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0309</i>		"	<i>0.0333</i>		<i>92.8</i>	<i>40-150</i>			

LCS (BED0063-BS1)

Prepared & Analyzed: 04/05/21

Acenaphthene	0.0359	0.00500	mg/kg	0.0333	108	31-137
Anthracene	0.0365	0.00500	"	0.0333	109	30-120
Benzo (a) anthracene	0.0323	0.00500	"	0.0333	96.8	30-120
Benzo (a) pyrene	0.0365	0.00500	"	0.0333	109	30-120
Benzo (b) fluoranthene	0.0343	0.00500	"	0.0333	103	30-120
Benzo (k) fluoranthene	0.0399	0.00500	"	0.0333	120	30-120
Chrysene	0.0346	0.00500	"	0.0333	104	30-120
Dibenz (a,h) anthracene	0.0320	0.00500	"	0.0333	96.1	30-120
Fluoranthene	0.0279	0.00500	"	0.0333	83.8	30-120
Fluorene	0.0194	0.00500	"	0.0333	58.1	30-120
Indeno (1,2,3-cd) pyrene	0.0306	0.00500	"	0.0333	91.7	30-120
Pyrene	0.0273	0.00500	"	0.0333	81.9	35-142
1-Methylnaphthalene	0.0312	0.00500	"	0.0333	93.6	35-142
2-Methylnaphthalene	0.0318	0.00500	"	0.0333	95.5	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0322</i>		"	<i>0.0333</i>	<i>96.5</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0344</i>		"	<i>0.0333</i>	<i>103</i>	<i>40-150</i>

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/13/21 15:13

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BED0063 - EPA 5030 Soil MS

Matrix Spike (BED0063-MS1)	Source: 2104030-01			Prepared & Analyzed: 04/05/21								
Acenaphthene	0.0372	0.00500	mg/kg	0.0333	ND	112	31-137					
Anthracene	0.0360	0.00500	"	0.0333	ND	108	30-120					
Benzo (a) anthracene	0.0325	0.00500	"	0.0333	ND	97.6	30-120					
Benzo (a) pyrene	0.0359	0.00500	"	0.0333	ND	108	30-120					
Benzo (b) fluoranthene	0.0349	0.00500	"	0.0333	ND	105	30-120					
Benzo (k) fluoranthene	0.0322	0.00500	"	0.0333	ND	96.5	30-120					
Chrysene	0.0351	0.00500	"	0.0333	ND	105	30-120					
Dibenz (a,h) anthracene	0.0319	0.00500	"	0.0333	ND	95.8	30-120					
Fluoranthene	0.0284	0.00500	"	0.0333	ND	85.2	30-120					
Fluorene	0.0238	0.00500	"	0.0333	ND	71.4	30-120					
Indeno (1,2,3-cd) pyrene	0.0309	0.00500	"	0.0333	ND	92.6	30-120					
Pyrene	0.0270	0.00500	"	0.0333	ND	81.0	35-142					
1-Methylnaphthalene	0.0301	0.00500	"	0.0333	ND	90.2	15-130					
2-Methylnaphthalene	0.0326	0.00500	"	0.0333	ND	97.8	15-130					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0312</i>		<i>"</i>	<i>0.0333</i>		<i>93.5</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0353</i>		<i>"</i>	<i>0.0333</i>		<i>106</i>	<i>40-150</i>					

Matrix Spike Dup (BED0063-MSD1)	Source: 2104030-01			Prepared & Analyzed: 04/05/21								
Acenaphthene	0.0398	0.00500	mg/kg	0.0333	ND	119	31-137	6.64	30			
Anthracene	0.0387	0.00500	"	0.0333	ND	116	30-120	7.24	30			
Benzo (a) anthracene	0.0344	0.00500	"	0.0333	ND	103	30-120	5.59	30			
Benzo (a) pyrene	0.0359	0.00500	"	0.0333	ND	108	30-120	0.0595	30			
Benzo (b) fluoranthene	0.0345	0.00500	"	0.0333	ND	104	30-120	1.05	30			
Benzo (k) fluoranthene	0.0335	0.00500	"	0.0333	ND	101	30-120	4.25	30			
Chrysene	0.0372	0.00500	"	0.0333	ND	112	30-120	5.87	30			
Dibenz (a,h) anthracene	0.0339	0.00500	"	0.0333	ND	102	30-120	6.09	30			
Fluoranthene	0.0296	0.00500	"	0.0333	ND	88.7	30-120	4.12	30			
Fluorene	0.0243	0.00500	"	0.0333	ND	72.9	30-120	2.06	30			
Indeno (1,2,3-cd) pyrene	0.0324	0.00500	"	0.0333	ND	97.3	30-120	4.98	30			
Pyrene	0.0297	0.00500	"	0.0333	ND	89.1	35-142	9.48	30			
1-Methylnaphthalene	0.0330	0.00500	"	0.0333	ND	98.9	15-130	9.23	50			
2-Methylnaphthalene	0.0351	0.00500	"	0.0333	ND	105	15-130	7.29	50			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0327</i>		<i>"</i>	<i>0.0333</i>		<i>98.2</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0360</i>		<i>"</i>	<i>0.0333</i>		<i>108</i>	<i>40-150</i>					

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

Project: Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/13/21 15:13

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BED0172 - EPA 3050B

Blank (BED0172-BLK1)

Prepared: 04/09/21 Analyzed: 04/11/21

Boron ND 0.0100 mg/L

LCS (BED0172-BS1)

Prepared: 04/09/21 Analyzed: 04/11/21

Boron 5.06 0.0100 mg/L 5.00 101 80-120

Duplicate (BED0172-DUP1)

Source: 2104026-02

Prepared: 04/09/21 Analyzed: 04/11/21

Boron 0.146 0.0100 mg/L 0.155 5.39 20

Matrix Spike (BED0172-MS1)

Source: 2104026-02

Prepared: 04/09/21 Analyzed: 04/11/21

Boron 5.14 0.0100 mg/L 5.00 0.155 99.8 75-125

Matrix Spike Dup (BED0172-MSD1)

Source: 2104026-02

Prepared: 04/09/21 Analyzed: 04/11/21

Boron 5.13 0.0100 mg/L 5.00 0.155 99.5 75-125 0.214 25

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Broomfield CO, 80020

Project: Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/13/21 15:13

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BED0168 - General Preparation

Blank (BED0168-BLK1)

Prepared: 04/09/21 Analyzed: 04/12/21

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BED0168-BS1)

Prepared: 04/09/21 Analyzed: 04/12/21

Calcium	5.31	0.0500	mg/L wet	5.00		106	70-130			
Magnesium	5.73	0.0500	"	5.00		115	70-130			
Sodium	5.08	0.0500	"	5.00		102	70-130			

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 Broomfield CO, 80020

Project: Mewbourn

Project Number: [none]
 Project Manager: Brian Humphrey

Reported:
 04/13/21 15:13

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BED0053 - General Preparation

Duplicate (BED0053-DUP1)		Source: 2103388-07		Prepared: 04/05/21 Analyzed: 04/06/21	
% Solids	95.5	%		95.5	0.00469 20

Summit Scientific

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

Project: Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/13/21 15:13

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BED0200 - General Preparation

Blank (BED0200-BLK1)

Prepared & Analyzed: 04/12/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BED0200-BS1)

Prepared & Analyzed: 04/12/21

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 90-110

Duplicate (BED0200-DUP1)

Source: 2104021-01

Prepared & Analyzed: 04/12/21

Specific Conductance (EC) 5.55 0.0100 mmhos/cm 5.52 0.650 20

Summit Scientific

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

Project: Mewbourn

Project Number: [none]
 Project Manager: Brian Humphrey

Reported:
 04/13/21 15:13

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BED0201 - General Preparation

LCS (BED0201-BS1)

Prepared & Analyzed: 04/12/21

pH 9.21 pH Units 9.21 100 95-105

Duplicate (BED0201-DUP1)

Source: 2104021-01

Prepared & Analyzed: 04/12/21

pH 7.79 pH Units 7.90 1.40 20

Summit Scientific

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

Project: Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/13/21 15:13

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 16, 2021

Brian Humphrey
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: DCP - Mewbourn
Work Order #2104103

Enclosed are the results of analyses for samples received by Summit Scientific on 04/07/21 17:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury
President



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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW07@13'	2104103-01	Soil	04/07/21 10:35	04/07/21 17:35
MW07@23'	2104103-02	Soil	04/07/21 10:43	04/07/21 17:35
MW08@19'	2104103-03	Soil	04/07/21 13:50	04/07/21 17:35
MW08@23'	2104103-04	Soil	04/07/21 13:55	04/07/21 17:35

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Sample Receipt Checklist

S2 Work Order 2104103

Client: Tasman/DCP Client Project ID: DCP Midstream

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
 (Describe)

Temp (°C)	<u>14.8</u>
-----------	-------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	—			<u>in ice</u>
Were all samples received intact ⁽¹⁾ ?	—			
Was adequate sample volume provided ⁽¹⁾ ?	—			
If custody seals are present, are they intact ⁽¹⁾ ?			—	
Are samples with holding times due within 48 hours sample due within 48 hours present?	—			<u>24hr</u>
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	—			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	—			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	—			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	—			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			—	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			—	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			—	
If dissolved metals are requested, were samples field filtered?			—	

Additional Comments (if any):

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

AT
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

4-7-21
Date/Time



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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

MW07@13'
2104103-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/21 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BED0122	04/07/21	04/08/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/07/21 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		81.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		76.1 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/07/21 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BED0123	04/07/21	04/08/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/07/21 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		104 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

MW07@13'
2104103-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/07/21 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) anthracene	ND	0.00500	mg/kg	1	BED0150	04/08/21	04/09/21	EPA 8270D SIM	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/07/21 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		70.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		72.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/07/21 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0573	0.0100	mg/L	1	BED0193	04/12/21	04/12/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/07/21 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.06	0.200	mg/kg dry	1	BED0136	04/08/21	04/09/21	EPA 6020B	
Selenium	0.869	0.260	"	"	"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/07/21 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	61.6	0.0615	mg/L dry	1	BED0256	04/14/21	04/16/21	EPA 6020B	
Magnesium	12.9	0.0615	"	"	"	"	"	"	

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

MW07@13'
2104103-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Sodium	43.5	0.0615	mg/L dry	1	BED0256	04/14/21	04/16/21	EPA 6020B
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Calculated Analysis

Date Sampled: **04/07/21 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.32	0.100	units	1	BED0304	04/16/21	04/16/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/07/21 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.3		%	1	BED0127	04/08/21	04/08/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/07/21 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.660	0.0100	mmhos/cm	1	BED0285	04/15/21	04/15/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **04/07/21 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BED0286	04/15/21	04/15/21	EPA 9045D	

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

MW07@23'
2104103-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/21 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BED0122	04/07/21	04/08/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/07/21 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		82.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		79.1 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/07/21 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BED0123	04/07/21	04/08/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/07/21 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		114 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

MW07@23'
2104103-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/07/21 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) anthracene	ND	0.00500	mg/kg	1	BED0150	04/08/21	04/09/21	EPA 8270D SIM	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/07/21 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		77.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		81.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/07/21 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0691	0.0100	mg/L	1	BED0193	04/12/21	04/12/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/07/21 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.83	0.200	mg/kg dry	1	BED0136	04/08/21	04/09/21	EPA 6020B	
Selenium	1.21	0.260	"	"	"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/07/21 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.4	0.0606	mg/L dry	1	BED0256	04/14/21	04/16/21	EPA 6020B	
Magnesium	8.62	0.0606	"	"	"	"	"	"	

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

MW07@23'
2104103-02 (Soil)

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Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Sodium	50.6	0.0606	mg/L dry	1	BED0256	04/14/21	04/16/21	EPA 6020B
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Calculated Analysis

Date Sampled: **04/07/21 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.89	0.100	units	1	BED0304	04/16/21	04/16/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/07/21 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5		%	1	BED0127	04/08/21	04/08/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/07/21 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.546	0.0100	mmhos/cm	1	BED0285	04/15/21	04/15/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **04/07/21 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.29		pH Units	1	BED0286	04/15/21	04/15/21	EPA 9045D	

Summit Scientific

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

Project: DCP - Mewbourn
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

MW08@19'
2104103-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BED0122	04/07/21	04/08/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.24	0.0050	"	"	"	"	"	"	
Xylenes (total)	1.1	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	7.1	0.50	"	100	"	"	04/08/21	"	
1,3,5-Trimethylbenzene	0.063	0.0050	"	1	"	"	04/08/21	"	
Naphthalene	0.020	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1500	50	"	100	"	"	04/08/21	"	

Date Sampled: **04/07/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		168 %	23-173		"	"	04/08/21	"	
Surrogate: Toluene-d8		81.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		229 %	21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/07/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BED0123	04/07/21	04/08/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/07/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

MW08@19'
2104103-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/07/21 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzo (a) anthracene	ND	0.00500		mg/kg	1	BED0150	04/08/21	04/09/21	EPA 8270D SIM	
Fluorene	0.0156	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.0923	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.190	0.00500		"	"	"	"	"	"	

Date Sampled: **04/07/21 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10		80.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		75.1 %		40-150		"	"	"	"	

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

MW08@23'
2104103-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/07/21 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BED0122	04/07/21	04/08/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.57	0.50	"	"	"	"	"	"	

Date Sampled: **04/07/21 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		84.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		78.0 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/07/21 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BED0123	04/07/21	04/08/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/07/21 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		112 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

MW08@23'
2104103-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/07/21 13:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzo (a) anthracene	ND	0.00500		mg/kg	1	BED0150	04/08/21	04/09/21	EPA 8270D SIM	
Fluorene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **04/07/21 13:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10		64.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		71.2 %		40-150		"	"	"	"	

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BED0122 - EPA 5030 Soil MS

Blank (BED0122-BLK1)

Prepared: 04/07/21 Analyzed: 04/08/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0428		"	0.0400		107	23-173			
<i>Surrogate: Toluene-d8</i>	0.0325		"	0.0400		81.3	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0310		"	0.0400		77.5	21-167			

LCS (BED0122-BS1)

Prepared: 04/07/21 Analyzed: 04/08/21

Benzene	0.101	0.0020	mg/kg	0.100		101	70-130			
Toluene	0.0945	0.0050	"	0.100		94.5	70-130			
Ethylbenzene	0.115	0.0050	"	0.100		115	70-130			
m,p-Xylene	0.231	0.010	"	0.200		116	70-130			
o-Xylene	0.118	0.0050	"	0.100		118	70-130			
1,2,4-Trimethylbenzene	0.114	0.0050	"	0.100		114	70-130			
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100		108	70-130			
Naphthalene	0.0911	0.0038	"	0.100		91.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0422		"	0.0400		106	23-173			
<i>Surrogate: Toluene-d8</i>	0.0329		"	0.0400		82.3	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0304		"	0.0400		76.1	21-167			

Matrix Spike (BED0122-MS1)

Source: 2104104-01

Prepared: 04/07/21 Analyzed: 04/08/21

Benzene	0.101	0.0020	mg/kg	0.100	ND	101	70-130			
Toluene	0.0945	0.0050	"	0.100	ND	94.5	70-130			
Ethylbenzene	0.114	0.0050	"	0.100	ND	114	70-130			
m,p-Xylene	0.229	0.010	"	0.200	ND	115	70-130			
o-Xylene	0.117	0.0050	"	0.100	ND	117	70-130			
1,2,4-Trimethylbenzene	0.116	0.0050	"	0.100	ND	116	70-130			
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130			
Naphthalene	0.105	0.0038	"	0.100	ND	105	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0432		"	0.0400		108	23-173			
<i>Surrogate: Toluene-d8</i>	0.0328		"	0.0400		82.0	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0311		"	0.0400		77.8	21-167			

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BED0122 - EPA 5030 Soil MS

Matrix Spike Dup (BED0122-MSD1)	Source: 2104104-01			Prepared: 04/07/21 Analyzed: 04/08/21					
Benzene	0.100	0.0020	mg/kg	0.100	ND	100	70-130	0.506	30
Toluene	0.0951	0.0050	"	0.100	ND	95.1	70-130	0.601	30
Ethylbenzene	0.114	0.0050	"	0.100	ND	114	70-130	0.0528	30
m,p-Xylene	0.232	0.010	"	0.200	ND	116	70-130	1.08	30
o-Xylene	0.120	0.0050	"	0.100	ND	120	70-130	3.17	30
1,2,4-Trimethylbenzene	0.116	0.0050	"	0.100	ND	116	70-130	0.233	30
1,3,5-Trimethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130	1.40	30
Naphthalene	0.112	0.0038	"	0.100	ND	112	70-130	7.02	30
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	23-173		
Surrogate: Toluene-d8	0.0323		"	0.0400		80.8	20-170		
Surrogate: 4-Bromofluorobenzene	0.0303		"	0.0400		75.8	21-167		

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BED0123 - EPA 3550A

Blank (BED0123-BLK1)

Prepared: 04/07/21 Analyzed: 04/08/21

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BED0123-BS1)

Prepared: 04/07/21 Analyzed: 04/08/21

C10-C28 (DRO)	488	50	mg/kg	500	17.4	88.8	70-130			
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Matrix Spike (BED0123-MS1)

Source: 2104104-01

Prepared: 04/07/21 Analyzed: 04/08/21

C10-C28 (DRO)	461	50	mg/kg	500	17.4	88.8	70-130			
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Matrix Spike Dup (BED0123-MSD1)

Source: 2104104-01

Prepared: 04/07/21 Analyzed: 04/08/21

C10-C28 (DRO)	450	50	mg/kg	500	17.4	86.5	70-130	2.53	20	
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Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BED0150 - EPA 5030 Soil MS

Blank (BED0150-BLK1)

Prepared & Analyzed: 04/08/21

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0293		"	0.0333		87.8	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0274		"	0.0333		82.3	40-150			

LCS (BED0150-BS1)

Prepared & Analyzed: 04/08/21

Acenaphthene	0.0377	0.00500	mg/kg	0.0333		113	31-137			
Anthracene	0.0379	0.00500	"	0.0333		114	30-120			
Benzo (a) anthracene	0.0396	0.00500	"	0.0333		119	30-120			
Benzo (a) pyrene	0.0398	0.00500	"	0.0333		119	30-120			
Benzo (b) fluoranthene	0.0391	0.00500	"	0.0333		117	30-120			
Benzo (k) fluoranthene	0.0370	0.00500	"	0.0333		111	30-120			
Chrysene	0.0383	0.00500	"	0.0333		115	30-120			
Dibenz (a,h) anthracene	0.0398	0.00500	"	0.0333		119	30-120			
Fluoranthene	0.0301	0.00500	"	0.0333		90.2	30-120			
Fluorene	0.0282	0.00500	"	0.0333		84.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0400	0.00500	"	0.0333		120	30-120			
Pyrene	0.0302	0.00500	"	0.0333		90.6	35-142			
1-Methylnaphthalene	0.0374	0.00500	"	0.0333		112	35-142			
2-Methylnaphthalene	0.0368	0.00500	"	0.0333		110	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0277		"	0.0333		83.1	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0307		"	0.0333		92.0	40-150			

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BED0150 - EPA 5030 Soil MS

Matrix Spike (BED0150-MS1)	Source: 2104103-01			Prepared & Analyzed: 04/08/21						
Acenaphthene	0.0386	0.00500	mg/kg	0.0333	ND	116	31-137			
Anthracene	0.0383	0.00500	"	0.0333	ND	115	30-120			
Benzo (a) anthracene	0.0308	0.00500	"	0.0333	ND	92.3	30-120			
Benzo (a) pyrene	0.0314	0.00500	"	0.0333	ND	94.2	30-120			
Benzo (b) fluoranthene	0.0304	0.00500	"	0.0333	ND	91.3	30-120			
Benzo (k) fluoranthene	0.0386	0.00500	"	0.0333	ND	116	30-120			
Chrysene	0.0397	0.00500	"	0.0333	ND	119	30-120			
Dibenz (a,h) anthracene	0.0374	0.00500	"	0.0333	ND	112	30-120			
Fluoranthene	0.0306	0.00500	"	0.0333	ND	91.7	30-120			
Fluorene	0.0272	0.00500	"	0.0333	ND	81.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0373	0.00500	"	0.0333	ND	112	30-120			
Pyrene	0.0310	0.00500	"	0.0333	ND	93.0	35-142			
1-Methylnaphthalene	0.0380	0.00500	"	0.0333	ND	114	15-130			
2-Methylnaphthalene	0.0375	0.00500	"	0.0333	ND	113	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0261</i>		<i>"</i>	<i>0.0333</i>		<i>78.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0297</i>		<i>"</i>	<i>0.0333</i>		<i>89.1</i>	<i>40-150</i>			

Matrix Spike Dup (BED0150-MSD1)	Source: 2104103-01			Prepared: 04/08/21 Analyzed: 04/09/21						
Acenaphthene	0.0363	0.00500	mg/kg	0.0333	ND	109	31-137	6.16	30	
Anthracene	0.0364	0.00500	"	0.0333	ND	109	30-120	5.30	30	
Benzo (a) anthracene	0.0379	0.00500	"	0.0333	ND	114	30-120	20.9	30	
Benzo (a) pyrene	0.0385	0.00500	"	0.0333	ND	116	30-120	20.3	30	
Benzo (b) fluoranthene	0.0384	0.00500	"	0.0333	ND	115	30-120	23.2	30	
Benzo (k) fluoranthene	0.0370	0.00500	"	0.0333	ND	111	30-120	4.19	30	
Chrysene	0.0369	0.00500	"	0.0333	ND	111	30-120	7.43	30	
Dibenz (a,h) anthracene	0.0381	0.00500	"	0.0333	ND	114	30-120	1.84	30	
Fluoranthene	0.0290	0.00500	"	0.0333	ND	87.1	30-120	5.20	30	
Fluorene	0.0236	0.00500	"	0.0333	ND	70.9	30-120	13.9	30	
Indeno (1,2,3-cd) pyrene	0.0380	0.00500	"	0.0333	ND	114	30-120	1.86	30	
Pyrene	0.0294	0.00500	"	0.0333	ND	88.1	35-142	5.41	30	
1-Methylnaphthalene	0.0346	0.00500	"	0.0333	ND	104	15-130	9.22	50	
2-Methylnaphthalene	0.0350	0.00500	"	0.0333	ND	105	15-130	6.90	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0264</i>		<i>"</i>	<i>0.0333</i>		<i>79.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0318</i>		<i>"</i>	<i>0.0333</i>		<i>95.3</i>	<i>40-150</i>			

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BED0193 - EPA 3050B

Blank (BED0193-BLK1)

Prepared & Analyzed: 04/12/21

Boron ND 0.0100 mg/L

LCS (BED0193-BS1)

Prepared & Analyzed: 04/12/21

Boron 5.70 0.0100 mg/L 5.00 114 80-120

Duplicate (BED0193-DUP1)

Source: 2103425-03

Prepared & Analyzed: 04/12/21

Boron 0.300 0.0100 mg/L 0.310 3.37 20

Matrix Spike (BED0193-MS1)

Source: 2103425-03

Prepared & Analyzed: 04/12/21

Boron 6.09 0.0100 mg/L 5.00 0.310 116 75-125

Matrix Spike Dup (BED0193-MSD1)

Source: 2103425-03

Prepared & Analyzed: 04/12/21

Boron 6.11 0.0100 mg/L 5.00 0.310 116 75-125 0.296 25

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BED0136 - EPA 3050B

Blank (BED0136-BLK1)

Prepared: 04/08/21 Analyzed: 04/09/21

Arsenic	ND	0.200	mg/kg wet						
Selenium	ND	0.260	"						

LCS (BED0136-BS1)

Prepared: 04/08/21 Analyzed: 04/09/21

Arsenic	37.2	0.200	mg/kg wet	40.0	93.0	80-120		
Selenium	3.34	0.260	"	4.00	83.5	80-120		

Duplicate (BED0136-DUP1)

Source: 2103388-18

Prepared: 04/08/21 Analyzed: 04/09/21

Arsenic	1.92	0.200	mg/kg dry		1.75		9.44	20
Selenium	0.508	0.260	"		0.473		6.99	20

Matrix Spike (BED0136-MS1)

Source: 2103388-18

Prepared: 04/08/21 Analyzed: 04/09/21

Arsenic	49.9	0.200	mg/kg dry	43.0	1.75	112	75-125	
Selenium	5.11	0.260	"	4.30	0.473	108	75-125	

Matrix Spike Dup (BED0136-MSD1)

Source: 2103388-18

Prepared: 04/08/21 Analyzed: 04/09/21

Arsenic	39.9	0.200	mg/kg dry	43.0	1.75	88.5	75-125	22.4	25
Selenium	4.15	0.260	"	4.30	0.473	85.5	75-125	20.6	25

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BED0256 - General Preparation

Blank (BED0256-BLK1)

Prepared: 04/14/21 Analyzed: 04/16/21

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BED0256-BS1)

Prepared: 04/14/21 Analyzed: 04/16/21

Calcium	5.04	0.0500	mg/L wet	5.00	101	70-130
Magnesium	5.02	0.0500	"	5.00	100	70-130
Sodium	4.98	0.0500	"	5.00	99.5	70-130

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
 Project Manager: Brian Humphrey

Reported:
 04/16/21 15:49

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BED0127 - General Preparation

Duplicate (BED0127-DUP1)		Source: 2104005-03			Prepared & Analyzed: 04/08/21			
% Solids	75.4		%		75.2		0.267	20

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BED0285 - General Preparation

Blank (BED0285-BLK1)

Prepared & Analyzed: 04/15/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BED0285-BS1)

Prepared & Analyzed: 04/15/21

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.8 90-110

Duplicate (BED0285-DUP1)

Source: 2104092-01

Prepared & Analyzed: 04/15/21

Specific Conductance (EC) 0.628 0.0100 mmhos/cm 0.630 0.239 20

Summit Scientific

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



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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BED0286 - General Preparation

LCS (BED0286-BS1)

Prepared & Analyzed: 04/15/21

pH	9.30	pH Units	9.21	101	95-105
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Duplicate (BED0286-DUP1)

Source: 2104092-01

Prepared & Analyzed: 04/15/21

pH	8.23	pH Units	8.24	0.121	20
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Summit Scientific

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



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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:49

Notes and Definitions

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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 16, 2021

Brian Humphrey
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: DCP - Mewbourn
Work Order #2104134

Enclosed are the results of analyses for samples received by Summit Scientific on 04/08/21 17:07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury
President



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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW09@20'	2104134-01	Soil	04/08/21 10:09	04/08/21 17:07
MW09@25'	2104134-02	Soil	04/08/21 10:15	04/08/21 17:07

Summit Scientific

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Summit Scientific

2104134

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: TASMAN / DCP MIDSTREAM
Address: 6875 W. 119TH AVE
City/State/Zip: Broomfield, CO 80020
Phone: 303-520-0298 Fax:
Sampler Name: TASMAN

Project Manager: B. HUMPHREY / S. WEATHERS
E-Mail: bhumphrey@tasman-gpco.com; sweather@dcpmidstream.com
Project Name: DCP MIDSTREAM jweather@tasman-gpco.com
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:					Special Instructions		
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	TABLE 915 VOC's	TPH	PAHs*	EC, SAR, pH, BORON		Selenium, Arsenic	
MW09@ 20'	4-8-21	1009	3			X			X				X	X	X	X		
MW09@ 25'	4-8-21	1015	3			X			X				X	X	X	X		

Relinquished by:	Date/Time: <u>4-8-21</u> <u>1707</u>	Received by:	Date/Time:	Turn Around Time (Check)	Notes: * PAHs → Benzo(a)anthracene Fluorene 1-methyl naphthalene 2-methyl naphthalene Naphthalene	
Relinquished by:	Date/Time:	Received by:	Date/Time: <u>4-8-21</u> <u>1707</u>	Same Day <input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>		72 Hours <input type="checkbox"/> Standard <input type="checkbox"/>
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: <u>9.80</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		



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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

MW09@20'
2104134-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/08/21 10:09**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BED0153	04/08/21	04/08/21	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **04/08/21 10:09**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		91.4 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/08/21 10:09**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BED0154	"	04/09/21	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/08/21 10:09**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		117 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

MW09@20'
2104134-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/08/21 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) anthracene	ND	0.00500	mg/kg	1	BED0173	04/09/21	04/11/21	EPA 8270D SIM	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/08/21 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		79.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		63.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/08/21 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0621	0.0100	mg/L	1	BED0218	04/13/21	04/14/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/08/21 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.85	0.200	mg/kg dry	1	BED0166	04/09/21	04/10/21	EPA 6020B	
Selenium	0.866	0.260	"	"	"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/08/21 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.5	0.0597	mg/L dry	1	BED0256	04/14/21	04/16/21	EPA 6020B	
Magnesium	8.33	0.0597	"	"	"	"	"	"	

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6855 W. 119th Ave.
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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

MW09@20'
2104134-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Sodium	7.19	0.0597	mg/L dry	1	BED0256	04/14/21	04/16/21	EPA 6020B
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Calculated Analysis

Date Sampled: **04/08/21 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.291	0.100	units	1	BED0304	04/16/21	04/16/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/08/21 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BED0156	04/09/21	04/09/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/08/21 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.305	0.0100	mmhos/cm	1	BED0285	04/15/21	04/15/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **04/08/21 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BED0286	04/15/21	04/15/21	EPA 9045D	

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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

MW09@25'
2104134-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/08/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BED0153	04/08/21	04/09/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/08/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.1 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/08/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BED0154	"	04/09/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/08/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		107 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

MW09@25'
2104134-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/08/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) anthracene	ND	0.00500	mg/kg	1	BED0173	04/09/21	04/11/21	EPA 8270D SIM	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/08/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		63.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/08/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0738	0.0100	mg/L	1	BED0218	04/13/21	04/14/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/08/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.73	0.200	mg/kg dry	1	BED0166	04/09/21	04/10/21	EPA 6020B	
Selenium	0.264	0.260	"	"	"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/08/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	47.9	0.0606	mg/L dry	1	BED0256	04/14/21	04/16/21	EPA 6020B	
Magnesium	11.2	0.0606	"	"	"	"	"	"	

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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

MW09@25'
2104134-02 (Soil)

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Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Sodium	40.0	0.0606	mg/L dry	1	BED0256	04/14/21	04/16/21	EPA 6020B
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Calculated Analysis

Date Sampled: **04/08/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.35	0.100	units	1	BED0304	04/16/21	04/16/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/08/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5		%	1	BED0156	04/09/21	04/09/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/08/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.569	0.0100	mmhos/cm	1	BED0285	04/15/21	04/15/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **04/08/21 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18		pH Units	1	BED0286	04/15/21	04/15/21	EPA 9045D	

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BED0153 - EPA 5030 Soil MS

Blank (BED0153-BLK1)

Prepared & Analyzed: 04/08/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0340</i>		<i>"</i>	<i>0.0400</i>		<i>84.9</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0444</i>		<i>"</i>	<i>0.0400</i>		<i>111</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.0</i>	<i>21-167</i>			

LCS (BED0153-BS1)

Prepared & Analyzed: 04/08/21

Benzene	0.0792	0.0020	mg/kg	0.100		79.2	70-130			
Toluene	0.104	0.0050	"	0.100		104	70-130			
Ethylbenzene	0.0974	0.0050	"	0.100		97.4	70-130			
m,p-Xylene	0.175	0.010	"	0.200		87.5	70-130			
o-Xylene	0.0866	0.0050	"	0.100		86.6	70-130			
1,2,4-Trimethylbenzene	0.0898	0.0050	"	0.100		89.8	70-130			
1,3,5-Trimethylbenzene	0.0872	0.0050	"	0.100		87.2	70-130			
Naphthalene	0.0841	0.0038	"	0.100		84.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0237</i>		<i>"</i>	<i>0.0400</i>		<i>59.2</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0430</i>		<i>"</i>	<i>0.0400</i>		<i>108</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.0</i>	<i>21-167</i>			

Matrix Spike (BED0153-MS1)

Source: 2104134-01

Prepared & Analyzed: 04/08/21

Benzene	0.0863	0.0020	mg/kg	0.100	ND	86.3	70-130			
Toluene	0.0948	0.0050	"	0.100	ND	94.8	70-130			
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130			
m,p-Xylene	0.178	0.010	"	0.200	ND	88.9	70-130			
o-Xylene	0.0882	0.0050	"	0.100	ND	88.2	70-130			
1,2,4-Trimethylbenzene	0.0902	0.0050	"	0.100	ND	90.2	70-130			
1,3,5-Trimethylbenzene	0.0864	0.0050	"	0.100	ND	86.4	70-130			
Naphthalene	0.0905	0.0038	"	0.100	ND	90.5	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0271</i>		<i>"</i>	<i>0.0400</i>		<i>67.7</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0376</i>		<i>"</i>	<i>0.0400</i>		<i>94.0</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0378</i>		<i>"</i>	<i>0.0400</i>		<i>94.6</i>	<i>21-167</i>			

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BED0153 - EPA 5030 Soil MS

Matrix Spike Dup (BED0153-MSD1)	Source: 2104134-01			Prepared & Analyzed: 04/08/21						
Benzene	0.0863	0.0020	mg/kg	0.100	ND	86.3	70-130	0.0695	30	
Toluene	0.0898	0.0050	"	0.100	ND	89.8	70-130	5.43	30	
Ethylbenzene	0.0984	0.0050	"	0.100	ND	98.4	70-130	2.77	30	
m,p-Xylene	0.170	0.010	"	0.200	ND	84.9	70-130	4.66	30	
o-Xylene	0.0848	0.0050	"	0.100	ND	84.8	70-130	3.95	30	
1,2,4-Trimethylbenzene	0.0863	0.0050	"	0.100	ND	86.3	70-130	4.38	30	
1,3,5-Trimethylbenzene	0.0827	0.0050	"	0.100	ND	82.7	70-130	4.37	30	
Naphthalene	0.0965	0.0038	"	0.100	ND	96.5	70-130	6.38	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0282</i>		<i>"</i>	<i>0.0400</i>		<i>70.6</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0367</i>		<i>"</i>	<i>0.0400</i>		<i>91.7</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0369</i>		<i>"</i>	<i>0.0400</i>		<i>92.2</i>	<i>21-167</i>			

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BED0154 - EPA 3550A

Blank (BED0154-BLK1)

Prepared & Analyzed: 04/08/21

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BED0154-BS1)

Prepared & Analyzed: 04/08/21

C10-C28 (DRO)	558	50	mg/kg	500	112	70-130				
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Matrix Spike (BED0154-MS1)

Source: 2104134-01

Prepared & Analyzed: 04/08/21

C10-C28 (DRO)	447	50	mg/kg	500	39.9	81.5	70-130			
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Matrix Spike Dup (BED0154-MSD1)

Source: 2104134-01

Prepared: 04/08/21 Analyzed: 04/09/21

C10-C28 (DRO)	493	50	mg/kg	500	39.9	90.6	70-130	9.71	20	
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6855 W. 119th Ave.
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Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BED0173 - EPA 5030 Soil MS

Blank (BED0173-BLK1)

Prepared & Analyzed: 04/09/21

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0280		"	0.0333		83.9	40-150			
Surrogate: Fluoranthene-d10	0.0265		"	0.0333		79.6	40-150			

LCS (BED0173-BS1)

Prepared: 04/09/21 Analyzed: 04/10/21

Acenaphthene	0.0375	0.00500	mg/kg	0.0333		113	31-137			
Anthracene	0.0366	0.00500	"	0.0333		110	30-120			
Benzo (a) anthracene	0.0385	0.00500	"	0.0333		115	30-120			
Benzo (a) pyrene	0.0380	0.00500	"	0.0333		114	30-120			
Benzo (b) fluoranthene	0.0317	0.00500	"	0.0333		95.0	30-120			
Benzo (k) fluoranthene	0.0311	0.00500	"	0.0333		93.4	30-120			
Chrysene	0.0385	0.00500	"	0.0333		115	30-120			
Dibenz (a,h) anthracene	0.0195	0.00500	"	0.0333		58.5	30-120			
Fluoranthene	0.0289	0.00500	"	0.0333		86.7	30-120			
Fluorene	0.0185	0.00500	"	0.0333		55.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0205	0.00500	"	0.0333		61.4	30-120			
Pyrene	0.0313	0.00500	"	0.0333		93.9	35-142			
1-Methylnaphthalene	0.0336	0.00500	"	0.0333		101	35-142			
2-Methylnaphthalene	0.0351	0.00500	"	0.0333		105	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0247		"	0.0333		74.2	40-150			
Surrogate: Fluoranthene-d10	0.0293		"	0.0333		88.0	40-150			

Summit Scientific

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



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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BED0173 - EPA 5030 Soil MS

Matrix Spike (BED0173-MS1)	Source: 2104134-01			Prepared: 04/09/21 Analyzed: 04/10/21							
Acenaphthene	0.0371	0.00500	mg/kg	0.0333	ND	111	31-137				
Anthracene	0.0369	0.00500	"	0.0333	ND	111	30-120				
Benzo (a) anthracene	0.0388	0.00500	"	0.0333	ND	116	30-120				
Benzo (a) pyrene	0.0398	0.00500	"	0.0333	ND	119	30-120				
Benzo (b) fluoranthene	0.0326	0.00500	"	0.0333	ND	97.8	30-120				
Benzo (k) fluoranthene	0.0322	0.00500	"	0.0333	ND	96.7	30-120				
Chrysene	0.0390	0.00500	"	0.0333	ND	117	30-120				
Dibenz (a,h) anthracene	0.0199	0.00500	"	0.0333	ND	59.7	30-120				
Fluoranthene	0.0293	0.00500	"	0.0333	ND	88.0	30-120				
Fluorene	0.0175	0.00500	"	0.0333	ND	52.6	30-120				
Indeno (1,2,3-cd) pyrene	0.0207	0.00500	"	0.0333	ND	62.1	30-120				
Pyrene	0.0321	0.00500	"	0.0333	0.00204	90.1	35-142				
1-Methylnaphthalene	0.0335	0.00500	"	0.0333	ND	101	15-130				
2-Methylnaphthalene	0.0333	0.00500	"	0.0333	ND	99.8	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0235</i>		<i>"</i>	<i>0.0333</i>		<i>70.4</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0285</i>		<i>"</i>	<i>0.0333</i>		<i>85.5</i>	<i>40-150</i>				

Matrix Spike Dup (BED0173-MSD1)	Source: 2104134-01			Prepared: 04/09/21 Analyzed: 04/10/21							
Acenaphthene	0.0357	0.00500	mg/kg	0.0333	ND	107	31-137	3.83	30		
Anthracene	0.0347	0.00500	"	0.0333	ND	104	30-120	6.33	30		
Benzo (a) anthracene	0.0370	0.00500	"	0.0333	ND	111	30-120	4.68	30		
Benzo (a) pyrene	0.0369	0.00500	"	0.0333	ND	111	30-120	7.41	30		
Benzo (b) fluoranthene	0.0307	0.00500	"	0.0333	ND	92.2	30-120	5.88	30		
Benzo (k) fluoranthene	0.0304	0.00500	"	0.0333	ND	91.2	30-120	5.79	30		
Chrysene	0.0375	0.00500	"	0.0333	ND	112	30-120	3.92	30		
Dibenz (a,h) anthracene	0.0190	0.00500	"	0.0333	ND	57.0	30-120	4.72	30		
Fluoranthene	0.0279	0.00500	"	0.0333	ND	83.6	30-120	5.23	30		
Fluorene	0.0174	0.00500	"	0.0333	ND	52.1	30-120	0.977	30		
Indeno (1,2,3-cd) pyrene	0.0200	0.00500	"	0.0333	ND	59.9	30-120	3.51	30		
Pyrene	0.0307	0.00500	"	0.0333	0.00204	85.9	35-142	4.46	30		
1-Methylnaphthalene	0.0338	0.00500	"	0.0333	ND	102	15-130	0.957	50		
2-Methylnaphthalene	0.0329	0.00500	"	0.0333	ND	98.7	15-130	1.13	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0260</i>		<i>"</i>	<i>0.0333</i>		<i>78.0</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0309</i>		<i>"</i>	<i>0.0333</i>		<i>92.7</i>	<i>40-150</i>				

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BED0218 - EPA 3050B

Blank (BED0218-BLK1)

Prepared & Analyzed: 04/13/21

Boron ND 0.0100 mg/L

LCS (BED0218-BS1)

Prepared & Analyzed: 04/13/21

Boron 5.07 0.0100 mg/L 5.00 101 80-120

Duplicate (BED0218-DUP1)

Source: 2103468-01

Prepared & Analyzed: 04/13/21

Boron 0.108 0.0100 mg/L 0.112 3.70 20

Matrix Spike (BED0218-MS1)

Source: 2103468-01

Prepared & Analyzed: 04/13/21

Boron 5.02 0.0100 mg/L 5.00 0.112 98.1 75-125

Matrix Spike Dup (BED0218-MSD1)

Source: 2103468-01

Prepared & Analyzed: 04/13/21

Boron 5.38 0.0100 mg/L 5.00 0.112 105 75-125 6.96 25

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BED0166 - EPA 3050B

Blank (BED0166-BLK1)

Prepared & Analyzed: 04/09/21

Arsenic	ND	0.200	mg/kg wet							
Selenium	ND	0.260	"							

LCS (BED0166-BS1)

Prepared & Analyzed: 04/09/21

Arsenic	36.0	0.200	mg/kg wet	40.0	90.0	80-120				
Selenium	3.86	0.260	"	4.00	96.5	80-120				

Duplicate (BED0166-DUP1)

Source: 2103237-08

Prepared & Analyzed: 04/09/21

Arsenic	1.62	0.200	mg/kg dry		1.70		4.97	20		
Selenium	0.416	0.260	"		0.407		2.17	20		

Matrix Spike (BED0166-MS1)

Source: 2103237-08

Prepared: 04/09/21 Analyzed: 04/12/21

Arsenic	39.4	0.200	mg/kg dry	47.5	1.70	79.4	75-125			
Selenium	4.35	0.260	"	4.75	0.407	83.0	75-125			

Matrix Spike Dup (BED0166-MSD1)

Source: 2103237-08

Prepared: 04/09/21 Analyzed: 04/12/21

Arsenic	46.4	0.200	mg/kg dry	47.5	1.70	94.0	75-125	16.2	25	
Selenium	4.35	0.260	"	4.75	0.407	82.9	75-125	0.0876	25	

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BED0256 - General Preparation

Blank (BED0256-BLK1)

Prepared: 04/14/21 Analyzed: 04/16/21

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BED0256-BS1)

Prepared: 04/14/21 Analyzed: 04/16/21

Calcium	5.04	0.0500	mg/L wet	5.00		101	70-130			
Magnesium	5.02	0.0500	"	5.00		100	70-130			
Sodium	4.98	0.0500	"	5.00		99.5	70-130			

Summit Scientific

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



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

Project: DCP - Mewbourn

Project Number: [none]
 Project Manager: Brian Humphrey

Reported:
 04/16/21 15:51

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BED0156 - General Preparation

Duplicate (BED0156-DUP1)	Source: 2103289-01			Prepared & Analyzed: 04/09/21								
% Solids	92.7		%		93.0				0.314		20	

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BED0285 - General Preparation

Blank (BED0285-BLK1)

Prepared & Analyzed: 04/15/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BED0285-BS1)

Prepared & Analyzed: 04/15/21

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.8 90-110

Duplicate (BED0285-DUP1)

Source: 2104092-01

Prepared & Analyzed: 04/15/21

Specific Conductance (EC) 0.628 0.0100 mmhos/cm 0.630 0.239 20

Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BED0286 - General Preparation

LCS (BED0286-BS1)

Prepared & Analyzed: 04/15/21

pH	9.30	pH Units	9.21	101	95-105
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Duplicate (BED0286-DUP1)

Source: 2104092-01

Prepared & Analyzed: 04/15/21

pH	8.23	pH Units	8.24	0.121	20
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Summit Scientific

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

Project: DCP - Mewbourn

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
04/16/21 15:51

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 18, 2021

Brian Humphrey
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: Mewbourn CND
Work Order #2103245

Enclosed are the results of analyses for samples received by Summit Scientific on 03/16/21 15:46. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury
President



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

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/18/21 14:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	2103245-01	Water	03/16/21 14:50	03/16/21 15:46
MW02	2103245-02	Water	03/16/21 14:45	03/16/21 15:46
MW03	2103245-03	Water	03/16/21 14:30	03/16/21 15:46
MW04	2103245-04	Water	03/16/21 14:25	03/16/21 15:46
MW05	2103245-05	Water	03/16/21 15:00	03/16/21 15:46
MW06	2103245-06	Water	03/16/21 14:55	03/16/21 15:46

Summit Scientific

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Summit Scientific

2103245

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: DCP/Tasman
 Address: 6855 W 119th Ave
 City/State/Zip: Broomfield, CO 80020
 Phone: 303-487-1228 Fax:
 Sampler Name: Brian Gabel, Steve Casaleggio

Project Manager: Brian Humphrey / Steve Weathers
 E-Mail: bhumphrey@tasman-goo.com / sweathers@dcpmidstream.com
 Project Name: Memburn CND
 Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:				Special Instructions		
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX + Naphthalene	104, 135 - TMB	TDS		Chloride, Sulfate	
MW01	3/16/21	1450	3		X			X				X	X				
MW02		1445	4		X			X				X	X	X	X		
MW03		1430	3		X			X				X	X				
MW04		1425	4		X			X				X	X	X	X		
MW05		1500	3		X			X				X	X				
MW06		1455	4		X			X				X	X	X	X		

Relinquished by: <u>[Signature]</u>	Date/Time: <u>3/16/21 1546</u>	Received by: <u>[Signature]</u>	Date/Time: <u>03/16/2021 1546</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 48 Hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>2.7</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2103245

Client: DOP/TARMAN Client Project ID: MauBowen CND

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C) 2.7

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

87
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

03/16/2021
Date/Time



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

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/18/21 14:40

MW01
2103245-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/16/21 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	420	100	ug/l	100	BEC0286	03/16/21	03/16/21	EPA 8260B	
Toluene	ND	1.0	"	1	"	"	03/17/21	"	
Ethylbenzene	500	100	"	100	"	"	03/16/21	"	
Xylenes (total)	370	2.0	"	1	"	"	03/17/21	"	
Naphthalene	29	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	130	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	75	1.0	"	"	"	"	"	"	

Date Sampled: **03/16/21 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		120 %		23-173	"	"	"	"	
Surrogate: Toluene-d8		108 %		20-170	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		120 %		21-167	"	"	"	"	

Summit Scientific

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

Project: Mewbourn CND
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/18/21 14:40

MW02
2103245-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/16/21 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1900	100	ug/l	100	BEC0286	03/16/21	03/16/21	EPA 8260B	
Toluene	3.8	1.0	"	1	"	"	03/17/21	"	
Ethylbenzene	510	100	"	100	"	"	03/16/21	"	
Xylenes (total)	250	2.0	"	1	"	"	03/17/21	"	
Naphthalene	25	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	320	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	150	1.0	"	"	"	"	"	"	

Date Sampled: **03/16/21 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		116 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		111 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		111 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **03/16/21 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sulfate	4.34	0.300	mg/L	1	BEC0273	03/16/21	03/17/21	EPA 300.0	
Chloride	68.2	0.600	"	10	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/16/21 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	620	10.0	mg/L	1	BEC0290	03/17/21	03/17/21	SM2540C	

Summit Scientific

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

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/18/21 14:40

MW03
2103245-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/16/21 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	120	1.0		ug/l	1	BEC0286	03/16/21	03/16/21	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	70	1.0		"	"	"	"	"	"	
Xylenes (total)	300	2.0		"	"	"	"	"	"	
Naphthalene	3.0	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	79	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	29	1.0		"	"	"	"	"	"	

Date Sampled: **03/16/21 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %		23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		110 %		20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		114 %		21-167		"	"	"	"	

Summit Scientific

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

Project: Mewbourn CND
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/18/21 14:40

MW04
2103245-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/16/21 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	45	1.0	ug/l	1	BEC0286	03/16/21	03/17/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	20	1.0	"	"	"	"	"	"	
Xylenes (total)	67	2.0	"	"	"	"	"	"	
Naphthalene	5.1	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	310	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	250	1.0	"	"	"	"	"	"	

Date Sampled: **03/16/21 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **03/16/21 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	4.55	0.0600	mg/L	1	BEC0273	03/16/21	03/17/21	EPA 300.0	
Sulfate	11.0	3.00	"	10	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/16/21 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	436	10.0	mg/L	1	BEC0290	03/17/21	03/17/21	SM2540C	

Summit Scientific

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

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/18/21 14:40

MW05
2103245-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/16/21 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	9.4	1.0		ug/l	1	BEC0286	03/16/21	03/16/21	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	6.7	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	2.8	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/16/21 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		112 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		118 %		21-167		"	"	"	"	

Summit Scientific

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



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

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/18/21 14:40

MW06
2103245-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/16/21 14:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BEC0286	03/16/21	03/16/21	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/16/21 14:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		98.3 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **03/16/21 14:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Sulfate	194	3.00		mg/L	10	BEC0273	03/16/21	03/17/21	EPA 300.0	
Chloride	168	0.600		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/16/21 14:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	780	10.0		mg/L	1	BEC0290	03/17/21	03/17/21	SM2540C	

Summit Scientific

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

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/18/21 14:40

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEC0286 - EPA 5030 Water MS

Blank (BEC0286-BLK1)

Prepared: 03/16/21 Analyzed: 03/17/21

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.2		"	13.3		91.7	23-173			
<i>Surrogate: Toluene-d8</i>	14.1		"	13.3		106	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	14.0		"	13.3		105	21-167			

LCS (BEC0286-BS1)

Prepared: 03/16/21 Analyzed: 03/17/21

Benzene	22.7	1.0	ug/l	33.3		68.2	51-132			
Toluene	40.3	1.0	"	33.3		121	51-138			
Ethylbenzene	31.8	1.0	"	33.3		95.5	58-146			
m,p-Xylene	64.7	2.0	"	66.7		97.1	57-144			
o-Xylene	33.9	1.0	"	33.3		102	53-146			
Naphthalene	31.6	1.0	"	33.3		94.7	70-130			
1,2,4-Trimethylbenzene	34.7	1.0	"	33.3		104	70-130			
1,3,5-Trimethylbenzene	34.8	1.0	"	33.3		104	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.6		"	13.3		94.7	23-173			
<i>Surrogate: Toluene-d8</i>	14.2		"	13.3		106	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.4		"	13.3		101	21-167			

Matrix Spike (BEC0286-MS1)

Source: 2103205-11

Prepared: 03/16/21 Analyzed: 03/17/21

Benzene	22.8	1.0	ug/l	33.3	ND	68.6	34-141			
Toluene	40.6	1.0	"	33.3	ND	122	27-151			
Ethylbenzene	32.0	1.0	"	33.3	ND	95.9	29-160			
m,p-Xylene	64.6	2.0	"	66.7	ND	96.9	20-166			
o-Xylene	33.1	1.0	"	33.3	ND	99.4	33-159			
Naphthalene	33.6	1.0	"	33.3	ND	101	70-130			
1,2,4-Trimethylbenzene	34.8	1.0	"	33.3	ND	104	70-130			
1,3,5-Trimethylbenzene	34.8	1.0	"	33.3	ND	104	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.7		"	13.3		103	23-173			
<i>Surrogate: Toluene-d8</i>	14.6		"	13.3		109	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.4		"	13.3		101	21-167			

Summit Scientific

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

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/18/21 14:40

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEC0286 - EPA 5030 Water MS

Matrix Spike Dup (BEC0286-MSD1)	Source: 2103205-11			Prepared: 03/16/21 Analyzed: 03/17/21						
Benzene	21.8	1.0	ug/l	33.3	ND	65.4	34-141	4.70	30	
Toluene	39.0	1.0	"	33.3	ND	117	27-151	4.02	30	
Ethylbenzene	31.3	1.0	"	33.3	ND	94.0	29-160	1.96	30	
m,p-Xylene	62.8	2.0	"	66.7	ND	94.2	20-166	2.78	30	
o-Xylene	32.2	1.0	"	33.3	ND	96.7	33-159	2.72	30	
Naphthalene	34.6	1.0	"	33.3	ND	104	70-130	3.11	30	
1,2,4-Trimethylbenzene	33.7	1.0	"	33.3	ND	101	70-130	3.27	30	
1,3,5-Trimethylbenzene	34.4	1.0	"	33.3	ND	103	70-130	1.18	30	
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		103	23-173			
Surrogate: Toluene-d8	14.5		"	13.3		108	20-170			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		104	21-167			

Summit Scientific

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

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/18/21 14:40

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BEC0273 - General Preparation

Blank (BEC0273-BLK1)

Prepared & Analyzed: 03/16/21

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

LCS (BEC0273-BS1)

Prepared & Analyzed: 03/16/21

Sulfate	14.7	0.300	mg/L	15.0	98.3	90-110		
Chloride	2.96	0.0600	"	3.00	98.5	90-110		

Duplicate (BEC0273-DUP1)

Source: 2103205-02

Prepared: 03/16/21 Analyzed: 03/17/21

Sulfate	52.4	15.0	mg/L		51.7		1.44	20
Chloride	14.7	3.00	"		14.8		0.678	20

Matrix Spike (BEC0273-MS1)

Source: 2103205-02

Prepared: 03/16/21 Analyzed: 03/17/21

Sulfate	945	15.0	mg/L	750	51.7	119	80-120	
Chloride	187	3.00	"	150	14.8	115	80-120	

Summit Scientific

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

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/18/21 14:40

Total Dissolved Solids by SM2540C - Quality Control

Summit Scientific

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

Batch BEC0290 - General Preparation

Blank (BEC0290-BLK1)

Prepared & Analyzed: 03/17/21

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BEC0290-DUP1)

Source: 2103205-02

Prepared & Analyzed: 03/17/21

Total Dissolved Solids 564 10.0 mg/L 562 0.391 20

Summit Scientific

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

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/18/21 14:40

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

March 30, 2021

Brian Humphrey
Tasman Geosciences
6855 W. 119th Ave.
Broomfeld, CO 80020
RE: Mewbourn CND

Enclosed are the results of analyses for samples received by Summit Scientific on 03/19/21 15:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Paul Shrewsbury', written in a cursive style.

Paul Shrewsbury
President



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

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/30/21 08:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	2103294-01	Water	03/19/21 12:20	03/19/21 15:05
MW-02	2103294-02	Water	03/19/21 12:00	03/19/21 15:05
MW-03	2103294-03	Water	03/19/21 11:50	03/19/21 15:05
MW-04	2103294-04	Water	03/19/21 11:40	03/19/21 15:05
MW-05	2103294-05	Water	03/19/21 12:40	03/19/21 15:05
MW-06	2103294-06	Water	03/19/21 12:50	03/19/21 15:05
Surface Water-01	2103294-07	Water	03/19/21 13:10	03/19/21 15:05

Summit Scientific

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

Summit Scientific

S₂

2103294

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Client: Tasman / DCP - Midstream Project Manager: Brian Humphrey / Chandler Cole Page 1 of 1
Address: 6855 W. 119 Ave Broomfield CO 80020 E-Mail: bhumphrey@tasman-gas.com ccole@dcpmidstream.com
City/State/Zip: Broomfield CO 80020
Phone: 303-487-1228 Project Name: Mowbourn
Sampler Name: Steve Casalegno Project Number: _____

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Table 915 Inorganics	Table 915 Organics	PHH's-Only Fluoride/Boron- Anthracene			
1	MW-01	3/19/21	12:20	2					X				X	X				
2	MW-02	3/19/21	12:00	1					X				X	X				
3	MW-03	3/19/21	11:50	2					X				X	X				
4	MW-04	3/19/21	11:40	1					X				X	X				
5	MW-05	3/19/21	12:40	2					X				X	X				
6	MW-06	3/19/21	12:50	1					X				X	X				
7	Surface Water - 01	3/19/20	13:10	5					X				X	X	X			
8																		
9																		
10																		

Relinquished by: <u>[Signature]</u> Date/Time: <u>3/19/21 15:05</u>	Received by: <u>[Signature]</u> Date/Time: <u>3-19-21 15:05</u>	Turn Around Time (Check) Same Day _____ 72 hours <input checked="" type="checkbox"/> 24 hours _____ Standard _____ 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>9.6</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____		
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____		

Sample Receipt Checklist

S2 Work Order 2103294

Client: TASMANI DCP Client Project ID: MEWBOURN

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

Matrix (check all that apply): _____ Air _____ Soil/Solid Water _____ Other: _____
(Describe)

Temp (°C)	9.6
-----------	-----

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	X			ON ICE
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
If custody seals are present, are they intact ⁽¹⁾ ?			X	
Are samples with holding times due within 48 hours sample due within 48 hours present?			X	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			X	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			X	
If dissolved metals are requested, were samples field filtered?			X	

Additional Comments (if any):

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

Musi R
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

3-19-21
Date/Time



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

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/30/21 08:23

MW-01
2103294-01 (Water)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/19/21 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzo (a) anthracene	ND	0.100	0.0220	ug/l	1	BEC0418	03/24/21	03/25/21	EPA 8270D SIM	
Fluorene	6.50	0.200	0.0222	"	"	"	"	"	"	"

Date Sampled: **03/19/21 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		87.8 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		80.9 %		40-150		"	"	"	"	"

Anions by EPA Method 300.0

Date Sampled: **03/19/21 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sulfate	1740	60.0	1.41	mg/L	200	BEC0405	03/24/21	03/25/21	EPA 300.0	
Chloride	291	12.0	0.290	"	"	"	"	"	"	"

Total Dissolved Solids by SM2540C

Date Sampled: **03/19/21 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	1050	10.0	10.0	mg/L	1	BEC0404	03/24/21	03/24/21	SM2540C	

Summit Scientific

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

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/30/21 08:23

MW-02
2103294-02 (Water)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/19/21 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzo (a) anthracene	ND	0.100	0.0220	ug/l	1	BEC0418	03/24/21	03/26/21	EPA 8270D SIM	
Fluorene	2.56	0.200	0.0222	"	"	"	"	"	"	"

Date Sampled: **03/19/21 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		58.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		50.7 %		40-150		"	"	"	"	

Summit Scientific

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/30/21 08:23

MW-03
2103294-03 (Water)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/19/21 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzo (a) anthracene	ND	0.100	0.0220	ug/l	1	BEC0418	03/24/21	03/26/21	EPA 8270D SIM	
Fluorene	ND	0.200	0.0222	"	"	"	"	"	"	"

Date Sampled: **03/19/21 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		79.2 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		74.8 %		40-150		"	"	"	"	"

Anions by EPA Method 300.0

Date Sampled: **03/19/21 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	104	12.0	0.290	mg/L	200	BEC0405	03/24/21	03/25/21	EPA 300.0	
Sulfate	1790	60.0	1.41	"	"	"	"	"	"	"

Total Dissolved Solids by SM2540C

Date Sampled: **03/19/21 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	441	10.0	10.0	mg/L	1	BEC0404	03/24/21	03/24/21	SM2540C	

Summit Scientific

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Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/30/21 08:23

MW-04
2103294-04 (Water)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/19/21 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzo (a) anthracene	ND	0.100	0.0220	ug/l	1	BEC0418	03/24/21	03/26/21	EPA 8270D SIM	
Fluorene	1.76	0.200	0.0222	"	"	"	"	"	"	"

Date Sampled: **03/19/21 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		99.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		74.2 %		40-150		"	"	"	"	

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Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/30/21 08:23

MW-05
2103294-05 (Water)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/19/21 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzo (a) anthracene	ND	0.100	0.0220	ug/l	1	BEC0418	03/24/21	03/26/21	EPA 8270D SIM	
Fluorene	1.35	0.200	0.0222	"	"	"	"	"	"	"

Date Sampled: **03/19/21 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		94.1 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		86.1 %		40-150		"	"	"	"	"

Anions by EPA Method 300.0

Date Sampled: **03/19/21 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chloride	240	12.0	0.290	mg/L	200	BEC0405	03/24/21	03/25/21	EPA 300.0	
Sulfate	1810	60.0	1.41	"	"	"	"	"	"	"

Total Dissolved Solids by SM2540C

Date Sampled: **03/19/21 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	803	10.0	10.0	mg/L	1	BEC0404	03/24/21	03/24/21	SM2540C	

Summit Scientific

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Broomfield CO, 80020

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/30/21 08:23

MW-06
2103294-06 (Water)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/19/21 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzo (a) anthracene	ND	0.100	0.0220	ug/l	1	BEC0418	03/24/21	03/26/21	EPA 8270D SIM	
Fluorene	ND	0.200	0.0222	"	"	"	"	"	"	"

Date Sampled: **03/19/21 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		99.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		94.8 %		40-150		"	"	"	"	

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Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/30/21 08:23

Surface Water-01
2103294-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/19/21 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	1.0	0.043	ug/l	1	BEC0368	03/22/21	03/23/21	EPA 8260B	
Toluene	ND	1.0	0.061	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	0.14	"	"	"	"	"	"	
Naphthalene	ND	1.0	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	0.068	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	0.069	"	"	"	"	"	"	

Date Sampled: **03/19/21 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		128 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		118 %		21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

R-01

Date Sampled: **03/19/21 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzo (a) anthracene	ND	1.00	0.220	ug/l	10	BEC0418	03/24/21	03/26/21	EPA 8270D SIM	
Fluorene	ND	2.00	0.222	"	"	"	"	"	"	

Date Sampled: **03/19/21 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		53.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.2 %		40-150		"	"	"	"	

Anions by EPA Method 300.0

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Project: Mewbourn CND

Project Number: [none]
 Project Manager: Brian Humphrey

Reported:
 03/30/21 08:23

Surface Water-01
2103294-07 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **03/19/21 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sulfate	2140	60.0	1.41	mg/L	200	BEC0405	03/24/21	03/25/21	EPA 300.0	
Chloride	264	12.0	0.290	"	"	"	"	"	"	"

Total Dissolved Solids by SM2540C

Date Sampled: **03/19/21 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Total Dissolved Solids	783	10.0	10.0	mg/L	1	BEC0404	03/24/21	03/24/21	SM2540C	

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Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/30/21 08:23

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEC0368 - EPA 5030 Water MS

Blank (BEC0368-BLK1)

Prepared & Analyzed: 03/22/21

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	15.0		"	13.3		113		23-173			
Surrogate: Toluene-d8	14.0		"	13.3		105		20-170			
Surrogate: 4-Bromofluorobenzene	15.0		"	13.3		113		21-167			

LCS (BEC0368-BS1)

Prepared & Analyzed: 03/22/21

Benzene	34.5	1.0	ug/l	33.3		103		51-132			
Toluene	27.4	1.0	"	33.3		82.1		51-138			
Ethylbenzene	35.6	1.0	"	33.3		107		58-146			
m,p-Xylene	69.0	2.0	"	66.7		104		57-144			
o-Xylene	34.5	1.0	"	33.3		104		53-146			
Naphthalene	34.7	1.0	"	33.3		104		70-130			
1,2,4-Trimethylbenzene	33.8	1.0	"	33.3		101		70-130			
1,3,5-Trimethylbenzene	43.4	1.0	"	33.3		130		70-130			
Surrogate: 1,2-Dichloroethane-d4	17.2		"	13.3		129		23-173			
Surrogate: Toluene-d8	13.7		"	13.3		102		20-170			
Surrogate: 4-Bromofluorobenzene	15.6		"	13.3		117		21-167			

Matrix Spike (BEC0368-MS1)

Source: 2103279-01

Prepared & Analyzed: 03/22/21

Benzene	34.0	1.0	ug/l	33.3	ND	102		34-141			
Toluene	26.5	1.0	"	33.3	ND	79.6		27-151			
Ethylbenzene	35.5	1.0	"	33.3	ND	107		29-160			
m,p-Xylene	70.4	2.0	"	66.7	ND	106		20-166			
o-Xylene	35.5	1.0	"	33.3	ND	107		33-159			
Naphthalene	41.5	1.0	"	33.3	ND	125		70-130			
1,2,4-Trimethylbenzene	34.8	1.0	"	33.3	ND	104		70-130			
1,3,5-Trimethylbenzene	33.6	1.0	"	33.3	ND	101		70-130			
Surrogate: 1,2-Dichloroethane-d4	17.4		"	13.3		130		23-173			
Surrogate: Toluene-d8	13.9		"	13.3		104		20-170			
Surrogate: 4-Bromofluorobenzene	15.3		"	13.3		115		21-167			

Summit Scientific

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/30/21 08:23

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEC0368 - EPA 5030 Water MS

Matrix Spike Dup (BEC0368-MSD1)	Source: 2103279-01			Prepared & Analyzed: 03/22/21							
Benzene	34.1	1.0	ug/l	33.3	ND	102	34-141	0.440	30		
Toluene	26.4	1.0	"	33.3	ND	79.2	27-151	0.491	30		
Ethylbenzene	36.5	1.0	"	33.3	ND	109	29-160	2.58	30		
m,p-Xylene	73.3	2.0	"	66.7	ND	110	20-166	4.08	30		
o-Xylene	34.3	1.0	"	33.3	ND	103	33-159	3.49	30		
Naphthalene	40.6	1.0	"	33.3	ND	122	70-130	2.22	30		
1,2,4-Trimethylbenzene	34.9	1.0	"	33.3	ND	105	70-130	0.430	30		
1,3,5-Trimethylbenzene	35.4	1.0	"	33.3	ND	106	70-130	5.31	30		
Surrogate: 1,2-Dichloroethane-d4	16.6		"	13.3		125	23-173				
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170				
Surrogate: 4-Bromofluorobenzene	16.4		"	13.3		123	21-167				

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Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/30/21 08:23

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEC0418 - EPA 5030 Water MS

Blank (BEC0418-BLK1)

Prepared: 03/24/21 Analyzed: 03/26/21

Acenaphthene	ND	0.500	ug/l							
Acenaphthylene	ND	0.200	"							
Anthracene	ND	0.200	"							
Benzo (a) anthracene	ND	0.100	"							
Benzo (b) fluoranthene	ND	0.200	"							
Benzo (k) fluoranthene	ND	0.200	"							
Benzo (g,h,i) perylene	ND	0.200	"							
Benzo (a) pyrene	ND	0.200	"							
Chrysene	ND	0.200	"							
Dibenz (a,h) anthracene	ND	0.200	"							
Fluoranthene	ND	0.200	"							
Fluorene	ND	0.200	"							
Indeno (1,2,3-cd) pyrene	ND	0.300	"							
Naphthalene	ND	0.200	"							
Phenanthrene	ND	0.500	"							
Pyrene	ND	1.00	"							
Surrogate: 2-Methylnaphthalene-d10	1.79		"	2.00		89.3	40-150			
Surrogate: Fluoranthene-d10	1.74		"	2.00		87.1	40-150			

LCS (BEC0418-BS1)

Prepared: 03/24/21 Analyzed: 03/26/21

Acenaphthene	1.93	0.500	ug/l	2.00		96.4	30-120			
Acenaphthylene	1.89	0.200	"	2.00		94.6	30-120			
Anthracene	1.96	0.200	"	2.00		98.0	30-120			
Benzo (a) anthracene	2.13	0.100	"	2.00		106	30-120			
Benzo (b) fluoranthene	1.17	0.200	"	2.00		58.6	30-120			
Benzo (k) fluoranthene	1.09	0.200	"	2.00		54.7	30-120			
Benzo (g,h,i) perylene	1.55	0.200	"	2.00		77.7	30-120			
Benzo (a) pyrene	2.21	0.200	"	2.00		110	30-120			
Chrysene	1.87	0.200	"	2.00		93.5	30-120			
Dibenz (a,h) anthracene	1.78	0.200	"	2.00		88.8	30-120			
Fluoranthene	2.01	0.200	"	2.00		101	30-120			
Fluorene	1.73	0.200	"	2.00		86.7	30-120			
Indeno (1,2,3-cd) pyrene	2.26	0.300	"	2.00		113	30-120			
Naphthalene	1.82	0.200	"	2.00		90.8	30-120			
Phenanthrene	2.02	0.500	"	2.00		101	30-120			
Pyrene	1.16	1.00	"	2.00		57.9	30-120			
Surrogate: 2-Methylnaphthalene-d10	1.86		"	2.00		92.8	40-150			
Surrogate: Fluoranthene-d10	2.04		"	2.00		102	40-150			

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6855 W. 119th Ave.
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Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
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PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEC0418 - EPA 5030 Water MS

LCS Dup (BEC0418-BSD1)

Prepared: 03/24/21 Analyzed: 03/26/21

Acenaphthene	1.93	0.500	ug/l	2.00	96.3	30-120	0.110	30	
Acenaphthylene	1.89	0.200	"	2.00	94.3	30-120	0.367	30	
Anthracene	1.88	0.200	"	2.00	94.0	30-120	4.23	30	
Benzo (a) anthracene	2.11	0.100	"	2.00	106	30-120	0.746	30	
Benzo (b) fluoranthene	1.17	0.200	"	2.00	58.6	30-120	0.0102	30	
Benzo (k) fluoranthene	1.09	0.200	"	2.00	54.6	30-120	0.172	30	
Benzo (g,h,i) perylene	1.53	0.200	"	2.00	76.7	30-120	1.30	30	
Benzo (a) pyrene	2.12	0.200	"	2.00	106	30-120	3.98	30	
Chrysene	1.88	0.200	"	2.00	93.9	30-120	0.426	30	
Dibenz (a,h) anthracene	1.78	0.200	"	2.00	89.0	30-120	0.254	30	
Fluoranthene	1.98	0.200	"	2.00	99.2	30-120	1.50	30	
Fluorene	2.03	0.200	"	2.00	101	30-120	15.6	30	
Indeno (1,2,3-cd) pyrene	2.26	0.300	"	2.00	113	30-120	0.231	30	
Naphthalene	1.87	0.200	"	2.00	93.6	30-120	2.99	30	
Phenanthrene	1.94	0.500	"	2.00	96.9	30-120	4.34	30	
Pyrene	1.17	1.00	"	2.00	58.6	30-120	1.25	30	
Surrogate: 2-Methylnaphthalene-d10	1.97		"	2.00	98.7	40-150			
Surrogate: Fluoranthene-d10	1.99		"	2.00	99.3	40-150			

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

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/30/21 08:23

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BEC0405 - General Preparation

Blank (BEC0405-BLK1)

Prepared: 03/24/21 Analyzed: 03/25/21

Sulfate	ND	0.300	mg/L						
Chloride	ND	0.0600	"						

LCS (BEC0405-BS1)

Prepared: 03/24/21 Analyzed: 03/25/21

Sulfate	14.3	0.300	mg/L	15.0	95.1	90-110		
Chloride	2.93	0.0600	"	3.00	97.7	90-110		

Duplicate (BEC0405-DUP1)

Source: 2103322-01

Prepared: 03/24/21 Analyzed: 03/25/21

Sulfate	11.7	0.300	mg/L		11.7		0.111	20
Chloride	11000	0.0600	"		10900		0.546	20

Matrix Spike (BEC0405-MS1)

Source: 2103322-01

Prepared: 03/24/21 Analyzed: 03/25/21

Chloride	10500	0.0600	mg/L	3.00	10900	NR	80-120		QM-02
Sulfate	23.9	0.300	"	15.0	11.7	81.7	80-120		

Summit Scientific

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/30/21 08:23

Total Dissolved Solids by SM2540C - Quality Control

Summit Scientific

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

Batch BEC0404 - General Preparation

Blank (BEC0404-BLK1)

Prepared & Analyzed: 03/24/21

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BEC0404-DUP1)

Source: 2103294-01

Prepared & Analyzed: 03/24/21

Total Dissolved Solids 1090 10.0 mg/L 1050 4.20 20

Summit Scientific

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



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

Project: Mewbourn CND

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/30/21 08:23

Notes and Definitions

- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



April 15, 2021

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - Mewbourne

Project Number - [none]

Attached are your analytical results for DCP - Mewbourne received by Origins Laboratory, Inc. April 12, 2021. This project is associated with Origins project number Y104191-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW07	Y104191-01	Water	April 12, 2021 11:30	04/12/2021 15:30
MW08	Y104191-02	Water	April 12, 2021 12:05	04/12/2021 15:30
MW09	Y104191-03	Water	April 12, 2021 11:40	04/12/2021 15:30

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

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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

Sample Receipt Checklist

Origins Work Order: Y104191 Client: Tasman
 Client Project ID: Mewbourne
 Checklist Completed by: JG Shipped Via: HTD
 Date/time completed: 4/12/21 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: 1, 12.6 °C / _____ °C / _____ °C / _____ °C
 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) JG

Date/Time Reviewed 4/13/21

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

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

MW07

4/12/2021 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y104191-01 (Water)

Anions by IC 300.0

Chloride	ND		62.5	mg/L	125	B1D1216	04/12/2021	04/13/2021	
Sulfate	85.1		62.5	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		1.00	ug/L	1	B1D1303	04/13/2021	04/13/2021	U
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.8 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

PAH by 8270D SIM

Benzo(a)anthracene	ND	0.00511	0.02	ug/L	1	L547095	04/14/2021	04/14/2021	
Fluorene	0.0143	0.00518	0.02	"	"	"	"	"	J
Surrogate: 2-Fluorobiphenyl	57 %		38-107			"	"	"	

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

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

MW07

4/12/2021 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y104191-01 (Water)

PAH by 8270D SIM

Surrogate: 4-Terphenyl-d14	59.8 %		33-122			L5470 95	04/14/2021	04/14/2021	
Surrogate: Nitrobenzene-d5	51.6 %		29-110			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	652		5.00	mg/L	1	B1D1304	04/13/2021	04/14/2021	
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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

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

MW08

4/12/2021 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y104191-02 (Water)

Anions by IC 300.0

Chloride	89.9		62.5	mg/L	125	B1D1216	04/12/2021	04/13/2021	
Sulfate	ND		62.5	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	463		4.00	ug/L	4	B1D1303	04/13/2021	04/13/2021	
1,3,5-Trimethylbenzene	296		4.00	"	"	"	"	"	
Benzene	ND		4.00	"	"	"	"	"	U
Ethylbenzene	154		4.00	"	"	"	"	"	
Naphthalene	ND		16.0	"	"	"	"	"	U
Toluene	ND		4.00	"	"	"	"	"	U
Xylenes, total	1020		4.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.1 %		70-130			"	"	"	
Surrogate: Toluene-d8	106 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %		70-130			"	"	"	

PAH by 8270D SIM

Benzo(a)anthracene	ND	0.0256	0.1	ug/L	5	L547095	04/14/2021	04/14/2021	
Fluorene	0.667	0.0259	0.1	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	75 %		38-107			"	"	"	
Surrogate: 4-Terphenyl-d14	79.7 %		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

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

MW08

4/12/2021 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y104191-02 (Water)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	62.3 %		29-110			L5470 95	04/14/2021	04/14/2021	
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Total Dissolved Solids by 2540C

Total Dissolved Solids	704		5.00	mg/L	1	B1D1304	04/13/2021	04/14/2021	
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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

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

MW09

4/12/2021 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y104191-03 (Water)

Anions by IC 300.0

Chloride	ND		62.5	mg/L	125	B1D1216	04/12/2021	04/13/2021	
Sulfate	ND		62.5	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		1.00	ug/L	1	B1D1303	04/13/2021	04/13/2021	U
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.9 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

PAH by 8270D SIM

Benzo(a)anthracene	ND	0.00511	0.02	ug/L	1	L547095	04/14/2021	04/14/2021	
Fluorene	0.0115	0.00518	0.02	"	"	"	"	"	J
Surrogate: 2-Fluorobiphenyl	59.1 %		38-107			"	"	"	

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

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

MW09

4/12/2021 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y104191-03 (Water)

PAH by 8270D SIM

Surrogate: 4-Terphenyl-d14	57.6 %		33-122			L5470 95	04/14/2021	04/14/2021	
Surrogate: Nitrobenzene-d5	54.2 %		29-110			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	520		5.00	mg/L	1	B1D1304	04/13/2021	04/14/2021	
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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

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B1D1303 - EPA 5030B (Water)

Blank (B1D1303-BLK1)

Prepared: 04/13/2021 Analyzed: 04/13/2021

1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5	92.4		70-130			
Surrogate: Toluene-d8	61		"	62.5	98.2		70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	103		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

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B1D1303 - EPA 5030B (Water)

LCS (B1D1303-BS1)

Prepared: 04/13/2021 Analyzed: 04/13/2021

1,2,4-Trimethylbenzene	45.1	1.00	ug/L	50.0		90.3	70-130			
1,3,5-Trimethylbenzene	46.7	1.00	"	50.0		93.4	70-130			
Benzene	44.4	1.00	"	50.0		88.8	70-130			
Ethylbenzene	48.0	1.00	"	50.0		96.0	70-130			
m,p-Xylene	94.8	2.00	"	100		94.8	70-130			
Naphthalene	42.9	4.00	"	50.0		85.7	70-130			
o-Xylene	46.4	1.00	"	50.0		92.7	70-130			
Toluene	46.0	1.00	"	50.0		92.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		85.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	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

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B1D1303 - EPA 5030B (Water)

Matrix Spike (B1D1303-MS1)	Source: Y104175-21			Prepared: 04/13/2021 Analyzed: 04/13/2021						
1,2,4-Trimethylbenzene	46.0	1.00	ug/L	50.0	ND	92.0	70-130			
1,3,5-Trimethylbenzene	46.3	1.00	"	50.0	ND	92.6	70-130			
Benzene	45.4	1.00	"	50.0	ND	90.8	70-130			
Ethylbenzene	48.4	1.00	"	50.0	ND	96.8	70-130			
m,p-Xylene	95.2	2.00	"	100	ND	95.2	70-130			
Naphthalene	42.8	4.00	"	50.0	0.180	85.3	70-130			
o-Xylene	45.9	1.00	"	50.0	ND	91.8	70-130			
Toluene	47.7	1.00	"	50.0	ND	95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	53		"	62.5		85.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 B1D1303 - EPA 5030B (Water)

Matrix Spike Dup (B1D1303-MSD1)	Source: Y104175-21			Prepared: 04/13/2021 Analyzed: 04/13/2021						
1,2,4-Trimethylbenzene	47.1	1.00	ug/L	50.0	ND	94.2	70-130	2.38	20	
1,3,5-Trimethylbenzene	48.2	1.00	"	50.0	ND	96.5	70-130	4.06	20	
Benzene	46.5	1.00	"	50.0	ND	93.0	70-130	2.46	20	
Ethylbenzene	50.0	1.00	"	50.0	ND	100	70-130	3.31	20	
m,p-Xylene	97.6	2.00	"	100	ND	97.6	70-130	2.48	20	
Naphthalene	45.2	4.00	"	50.0	0.180	90.0	70-130	5.32	20	
o-Xylene	47.8	1.00	"	50.0	ND	95.5	70-130	3.95	20	
Toluene	48.1	1.00	"	50.0	ND	96.3	70-130	0.918	20	
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		87.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	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

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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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Classical Chemistry Parameters - 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 B1D1216 - Filter .45um non acidified

Blank (B1D1216-BLK1)

Prepared: 04/12/2021 Analyzed: 04/13/2021

Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							

LCS (B1D1216-BS1)

Prepared: 04/12/2021 Analyzed: 04/13/2021

Chloride	1.97		mg/L	2.00		98.6	90-110			
Sulfate	1.94		"	2.00		96.9	90-110			

Matrix Spike (B1D1216-MS1)

Source: Y104175-13

Prepared: 04/12/2021 Analyzed: 04/13/2021

Chloride	848		mg/L	250	591	103	80-120			
Sulfate	2310		"	250	2050	104	80-120			

Matrix Spike Dup (B1D1216-MSD1)

Source: Y104175-13

Prepared: 04/12/2021 Analyzed: 04/13/2021

Chloride	855		mg/L	250	591	106	80-120	0.800	20	
Sulfate	2330		"	250	2050	113	80-120	1.01	20	

Batch B1D1304 - NO PREP

Blank (B1D1304-BLK1)

Prepared: 04/13/2021 Analyzed: 04/14/2021

Total Dissolved Solids	ND	5.00	mg/L							
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LCS (B1D1304-BS1)

Prepared: 04/13/2021 Analyzed: 04/14/2021

Total Dissolved Solids	737	5.00	mg/L	716		103	85-115			
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Duplicate (B1D1304-DUP1)

Source: Y104161-01

Prepared: 04/13/2021 Analyzed: 04/14/2021

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

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

Classical Chemistry Parameters - 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 B1D1304 - NO PREP

Total Dissolved Solids	4380	5.00	mg/L		4400			0.433	20	
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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

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne

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 L547095 - 3510C

LCSD (LCSD-L547095)

Prepared: 04/14/2021 Analyzed: 04/14/2021

Fluorene	3.49	0.00518	µg/L	5		69.8	41-116	9.9	20	
Benzo(a)anthracene	3.58	0.00511	"	5		71.6	36-127	4.5	20	
Surrogate: 4-Terphenyl-d14	63.8		"	10		63.8	33-122			
Surrogate: 2-Fluorobiphenyl	52.2		"	10		52.2	38-107			
Surrogate: Nitrobenzene-d5	48.8		"	10		48.8	29-110			

LCS (LCS-L547095)

Prepared: 04/14/2021 Analyzed: 04/14/2021

Fluorene	3.16	0.00518	µg/L	5		63.2	41-116			
Benzo(a)anthracene	3.42	0.00511	"	5		68.4	36-127			
Surrogate: 2-Fluorobiphenyl	51.7		"	10		51.7	38-107			
Surrogate: Nitrobenzene-d5	45.8		"	10		45.8	29-110			
Surrogate: 4-Terphenyl-d14	63.5		"	10		63.5	33-122			

LRB (LRB-L547095)

Prepared: 04/14/2021 Analyzed: 04/14/2021

Fluorene	ND	0.02	µg/L				-			
Benzo(a)anthracene	ND	0.02	"				-			
Surrogate: 4-Terphenyl-d14	61.7		"	10		61.7	33-122			
Surrogate: 2-Fluorobiphenyl	53.9		"	10		53.9	38-107			
Surrogate: Nitrobenzene-d5	45		"	10		45	29-110			

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

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne

Notes and Definitions

- U Sample is Non-Detect.
- 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 on a wet weight basis.

Origins Laboratory, Inc.

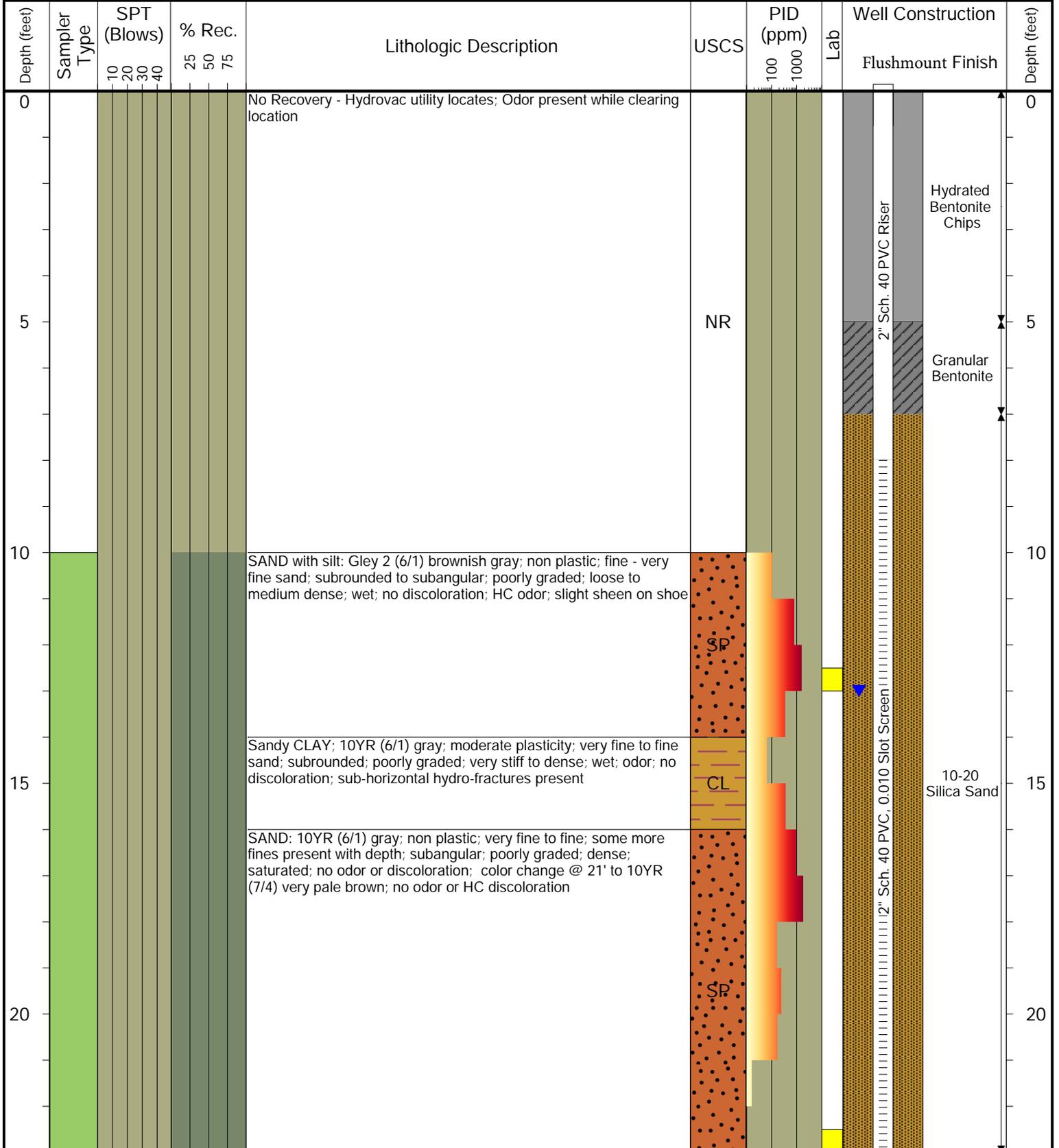


The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6855 W. 119th Ave.
Broomfield, Colorado 80020

CLIENT: DCP Midstream	MEWBOURN GP
LOGGED BY: J. Watts	
PROJECT MANAGER: Brian Humphrey	BORING / WELL ID: MW01
DRILLING CONTRACTOR: Site Services Drilling	
DRILLING EQUIPMENT: CME 55	LOCATION: Weld County, CO
DRILL BIT SIZE (INCHES): 8.25	LATITUDE: 40.267801247
DATE STARTED - COMPLETED: 03/09/21 - 3/9/21	LONGITUDE: -104.734948413
TOTAL WELL DEPTH (FT. BGS): 23	CASING ELEVATION (FT. AMSL): 4820.52340908
DEPTH TO WATER (FT. BGS): 13	GROUND ELEVATION (FT. AMSL): 4820.90340908



Drilling / Sample Method:

- Solid Stem Auger
- Split Spoon Sampler
- Hollow Stem Auger
- CME Continuous Sample Tube

Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



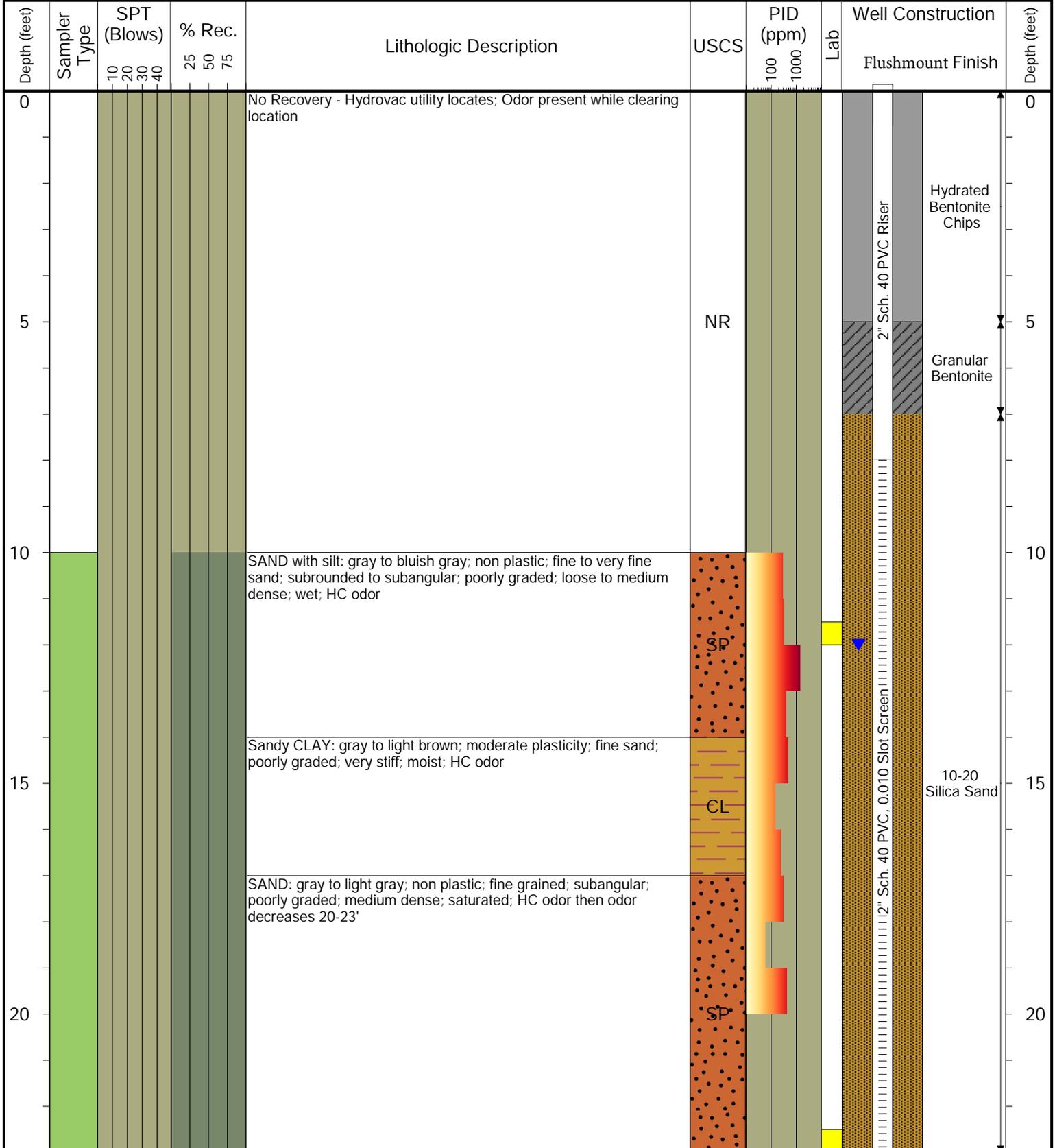
6855 W. 119th Ave.
Broomfield, Colorado 80020

CLIENT: DCP Midstream
 LOGGED BY: G. Basecke
 PROJECT MANAGER: Brian Humphrey
 DRILLING CONTRACTOR: Site Services Drilling
 DRILLING EQUIPMENT: CME 55
 DRILL BIT SIZE (INCHES): 8.25
 DATE STARTED - COMPLETED: 03/10/21 - 3/10/21
 TOTAL WELL DEPTH (FT. BGS): 23
 DEPTH TO WATER (FT. BGS): 12

MEWBOURN GP

BORING / WELL ID: MW02

LOCATION: Weld County, CO
 LATITUDE: 40.267804679
 LONGITUDE: -104.735148861
 CASING ELEVATION (FT. AMSL): 4820.71340908
 GROUND ELEVATION (FT. AMSL): 4821.15340908



Drilling / Sample Method:

- Solid Stem Auger
- Split Spoon Sampler
- Hollow Stem Auger
- CME Continuous Sample Tube

Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6855 W. 119th Ave.
Broomfield, Colorado 80020

CLIENT: DCP Midstream

LOGGED BY: G. Basecke

PROJECT MANAGER: Brian Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 55

DRILL BIT SIZE (INCHES): 8.25

DATE STARTED - COMPLETED: 03/09/21 - 3/9/21

TOTAL WELL DEPTH (FT. BGS): 23

DEPTH TO WATER (FT. BGS): 17

MEWBOURN GP

BORING / WELL ID: MW03

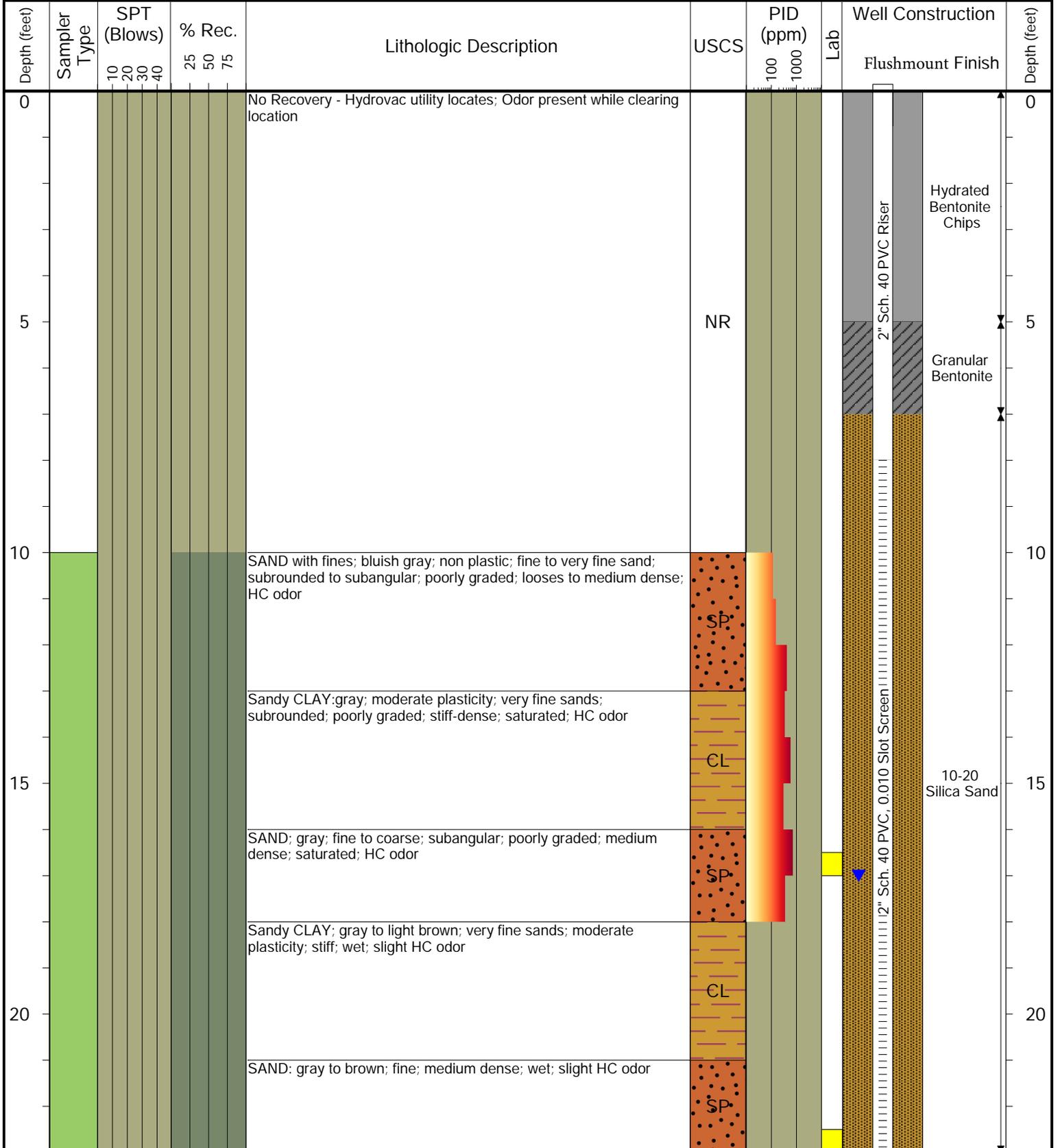
LOCATION: Weld County, CO

LATITUDE: 40.267827179

LONGITUDE: -104.735563642

CASING ELEVATION (FT. AMSL): 4820.59340908

GROUND ELEVATION (FT. AMSL): 4820.97340908



Drilling / Sample Method:

- Solid Stem Auger
- Split Spoon Sampler
- Hollow Stem Auger
- CME Continuous Sample Tube

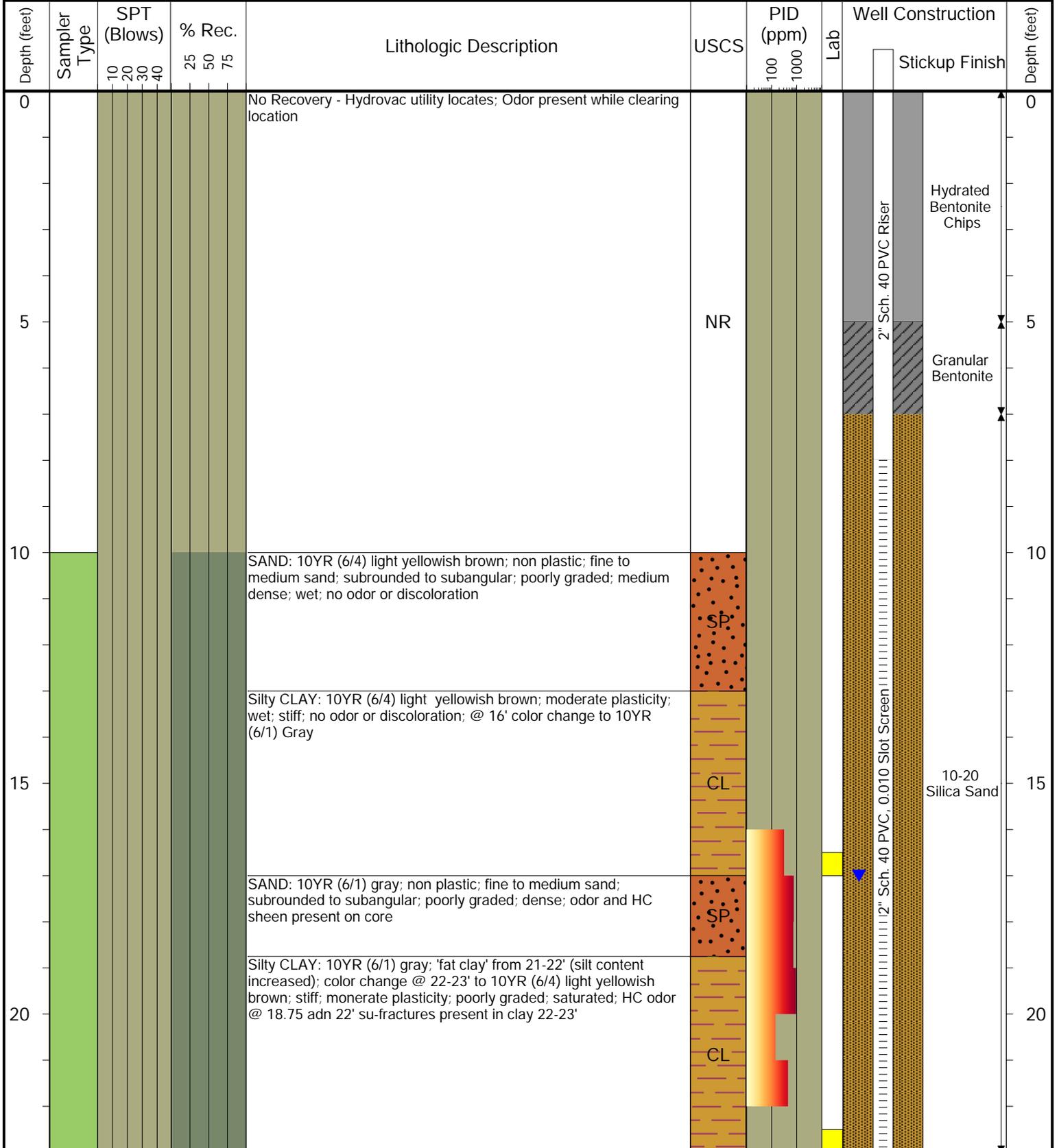
Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6855 W. 119th Ave.
Broomfield, Colorado 80020

CLIENT: DCP Midstream	MEWBOURN GP
LOGGED BY: J. Watts	
PROJECT MANAGER: Brian Humphrey	BORING / WELL ID: MW04
DRILLING CONTRACTOR: Site Services Drilling	
DRILLING EQUIPMENT: CME 55	LOCATION: Weld County, CO
DRILL BIT SIZE (INCHES): 8.25	LATITUDE: 40.267696417
DATE STARTED - COMPLETED: 03/10/21 - 3/10/21	LONGITUDE: -104.735966857
TOTAL WELL DEPTH (FT. BGS): 23	CASING ELEVATION (FT. AMSL): 4826.13340908
DEPTH TO WATER (FT. BGS): 17	GROUND ELEVATION (FT. AMSL): 4823.62340908



Drilling / Sample Method:

- Solid Stem Auger
- Split Spoon Sampler
- Hollow Stem Auger
- CME Continuous Sample Tube

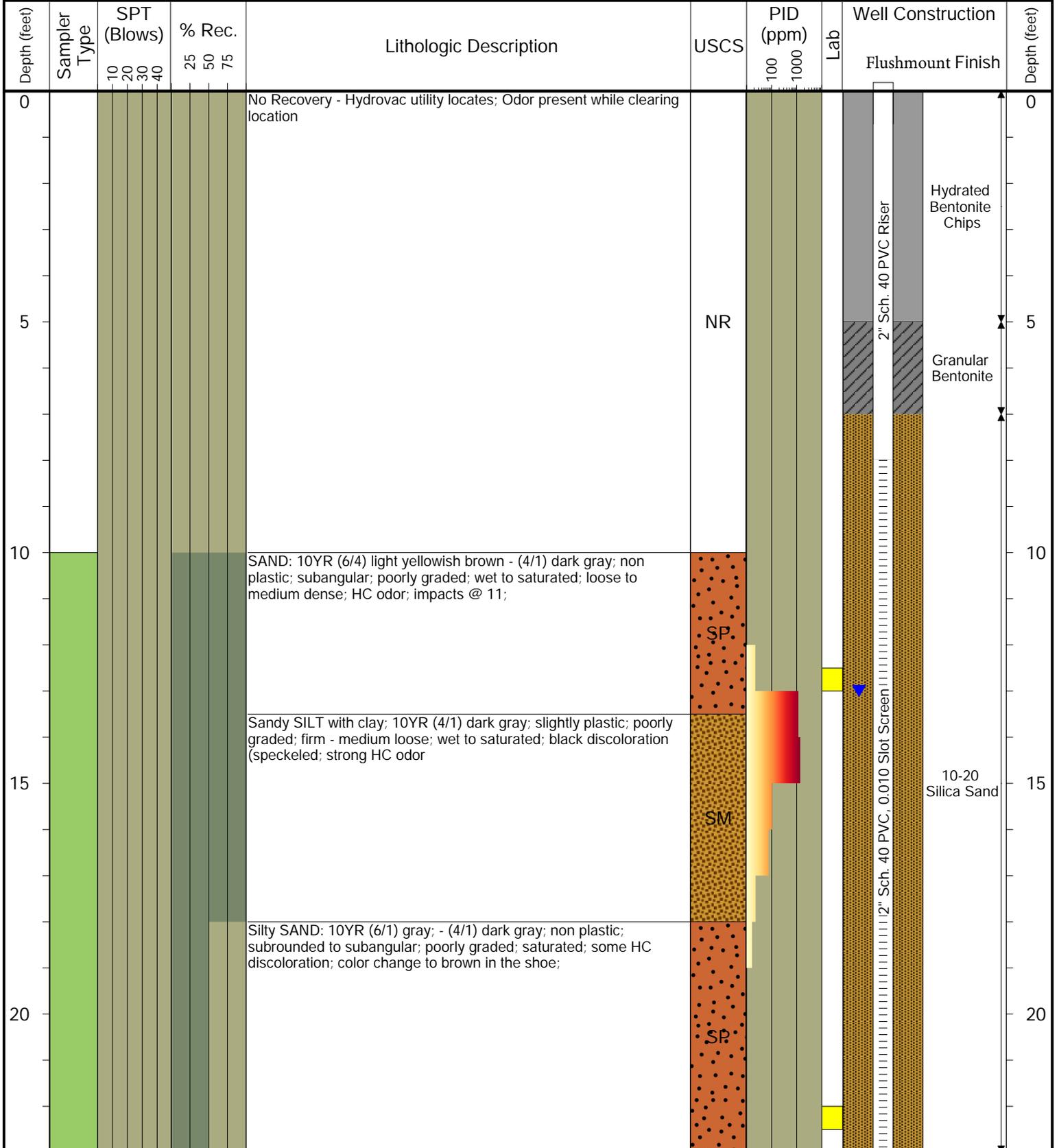
Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6855 W. 119th Ave.
Broomfield, Colorado 80020

CLIENT: DCP Midstream	MEWBOURN GP
LOGGED BY: J. Watts	
PROJECT MANAGER: Brian Humphrey	BORING / WELL ID: MW05
DRILLING CONTRACTOR: Site Services Drilling	
DRILLING EQUIPMENT: CME 55	LOCATION: Weld County, CO
DRILL BIT SIZE (INCHES): 8.25	LATITUDE: 40.268063831
DATE STARTED - COMPLETED: 03/10/21 - 3/10/21	LONGITUDE: -104.735169251
TOTAL WELL DEPTH (FT. BGS): 23	CASING ELEVATION (FT. AMSL): 4818.18340908
DEPTH TO WATER (FT. BGS): 13	GROUND ELEVATION (FT. AMSL): 4818.71340908



Drilling / Sample Method:

- Solid Stem Auger
- Split Spoon Sampler
- Hollow Stem Auger
- CME Continuous Sample Tube

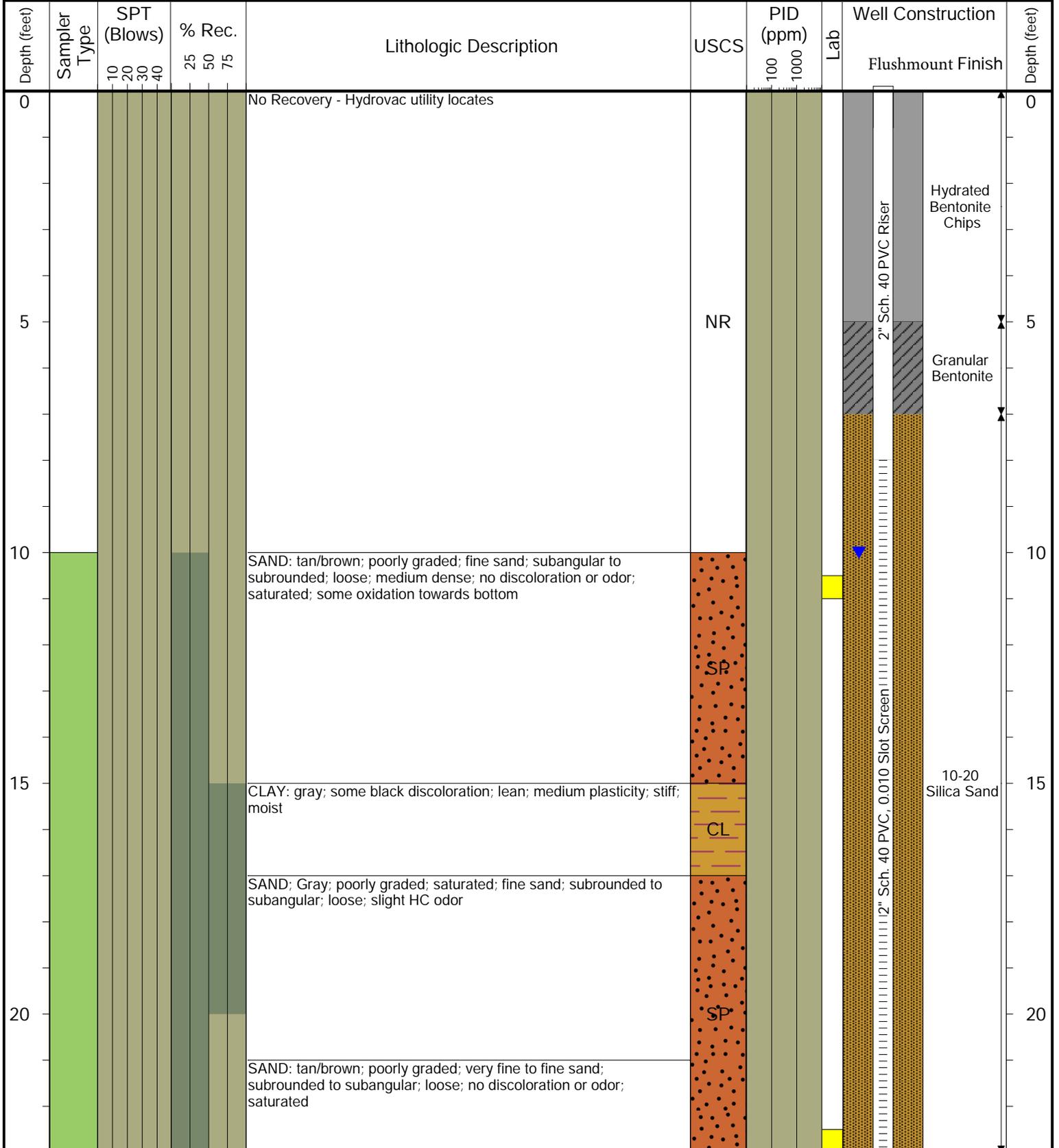
Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6855 W. 119th Ave.
Broomfield, Colorado 80020

CLIENT: DCP Midstream	MEWBOURN GP
LOGGED BY: G. Basecke	
PROJECT MANAGER: Brian Humphrey	BORING / WELL ID: MW06
DRILLING CONTRACTOR: Site Services Drilling	
DRILLING EQUIPMENT: CME 55	LOCATION: Weld County, CO
DRILL BIT SIZE (INCHES): 8.25	LATITUDE: 40.268037128
DATE STARTED - COMPLETED: 03/11/21 - 3/11/21	LONGITUDE: -104.734919358
TOTAL WELL DEPTH (FT. BGS): 23	CASING ELEVATION (FT. AMSL): 4817.73340908
DEPTH TO WATER (FT. BGS): 10	GROUND ELEVATION (FT. AMSL): 4817.99340908



Drilling / Sample Method:

- Solid Stem Auger
- Split Spoon Sampler
- Hollow Stem Auger
- CME Continuous Sample Tube

Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6855 W. 119th Ave.
Broomfield, Colorado 80020

CLIENT: DCP Midstream

LOGGED BY: J. Watts

PROJECT MANAGER: Brian Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 55

DRILL BIT SIZE (INCHES): 8.25

DATE STARTED - COMPLETED: 04/7/21 - 4/7/21

TOTAL WELL DEPTH (FT. BGS): 23

DEPTH TO WATER (FT. BGS): 11.5

MEWBOURN GP

BORING / WELL ID: MW07

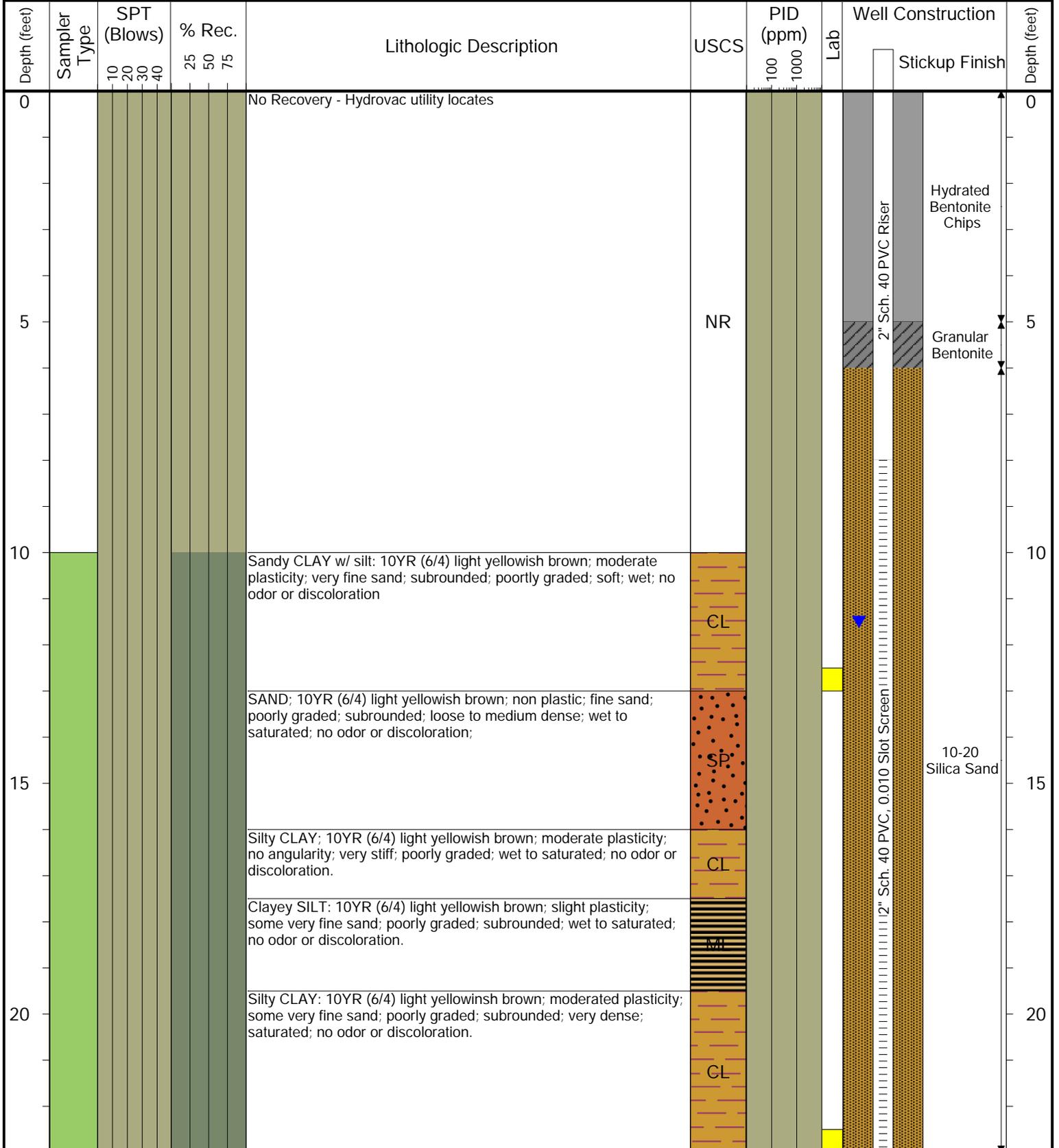
LOCATION: Weld County, CO

LATITUDE: 40.267668558

LONGITUDE: -104.736256139

CASING ELEVATION (FT. AMSL): 4826.34340908

GROUND ELEVATION (FT. AMSL): 4826.34340908



Drilling / Sample Method:

- Solid Stem Auger
- Split Spoon Sampler
- Hollow Stem Auger
- CME Continuous Sample Tube

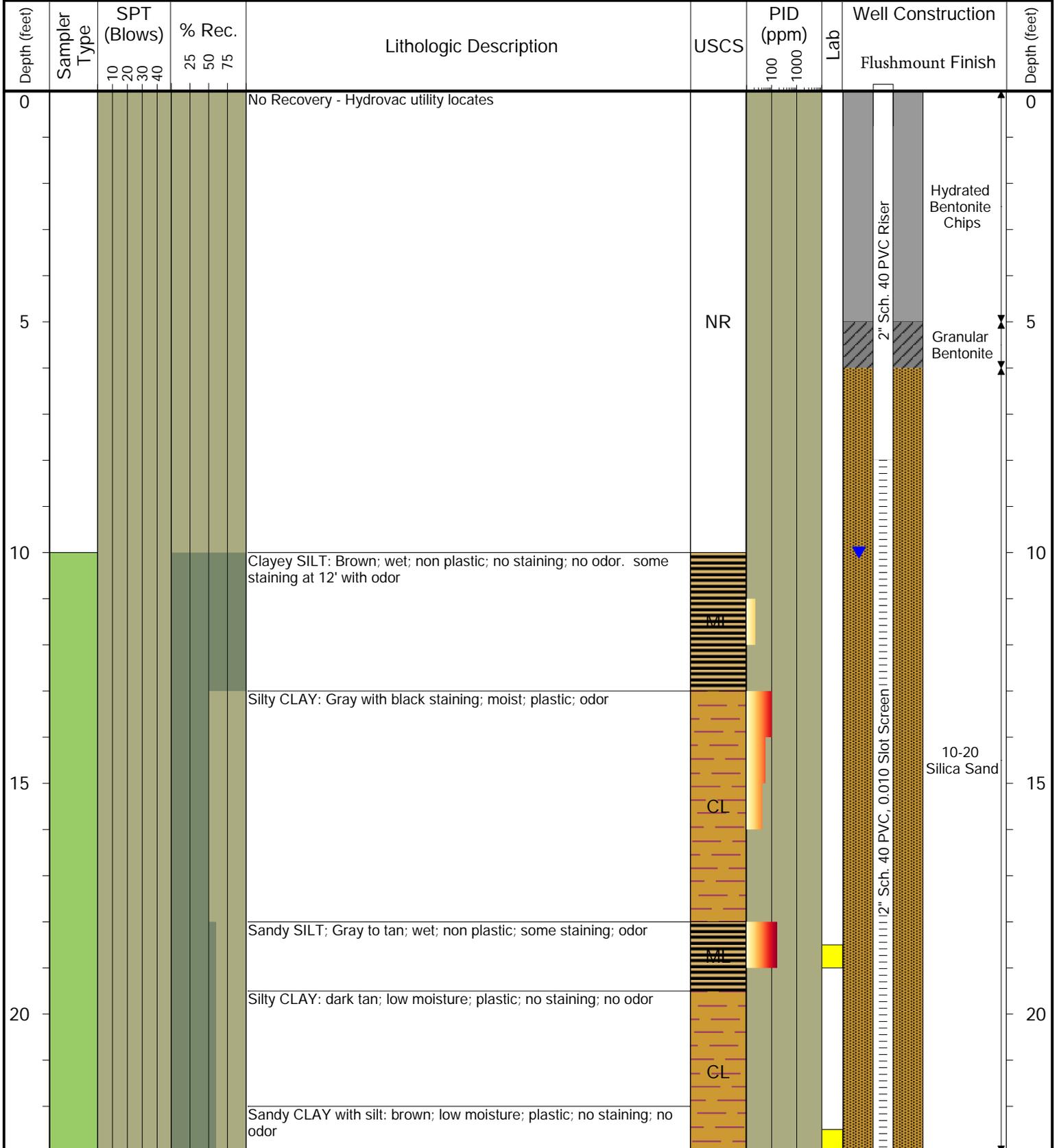
Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6855 W. 119th Ave.
Broomfield, Colorado 80020

CLIENT: DCP Midstream	MEWBOURN GP
LOGGED BY: B. Gabel / V. Scruggs	
PROJECT MANAGER: Brian Humphrey	BORING / WELL ID: MW08
DRILLING CONTRACTOR: Site Services Drilling	
DRILLING EQUIPMENT: CME 55	LOCATION: Weld County, CO
DRILL BIT SIZE (INCHES): 8.25	LATITUDE: 40.267835383
DATE STARTED - COMPLETED: 04/7/21 - 4/7/21	LONGITUDE: -104.735981332
TOTAL WELL DEPTH (FT. BGS): 23	CASING ELEVATION (FT. AMSL): 4821.00340908
DEPTH TO WATER (FT. BGS): 10	GROUND ELEVATION (FT. AMSL): 4821.00340908

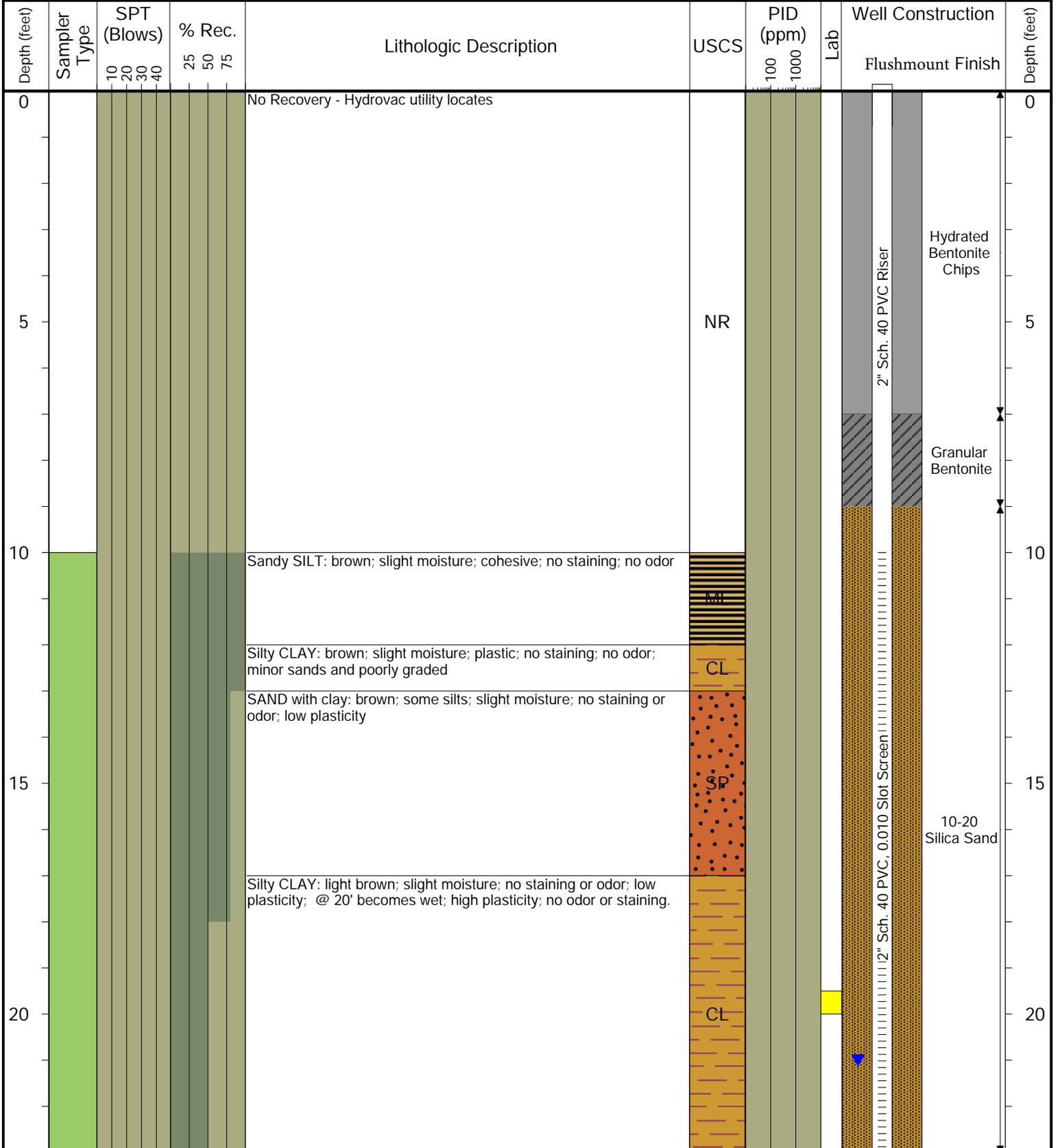


Drilling / Sample Method:				Laboratory Sample Types:		
Solid Stem Auger	Split Spoon Sampler	Geotechnical Lab	Geotechnical & Analytical Chemistry Lab			
Hollow Stem Auger	CME Continuous Sample Tube	Analytical Chemistry Lab				



6855 W. 119th Ave.
Broomfield, Colorado 80020

CLIENT: DCP Midstream	MEWBOURN GP
LOGGED BY: B. Gabel / V. Scruggs	
PROJECT MANAGER: Brian Humphrey	BORING / WELL ID: MW09
DRILLING CONTRACTOR: Site Services Drilling	
DRILLING EQUIPMENT: CME 55	LOCATION: Weld County, CO
DRILL BIT SIZE (INCHES): 8.25	LATITUDE: 40.267186653
DATE STARTED - COMPLETED: 04/8/21 - 4/8/21	LONGITUDE: -104.734964355
TOTAL WELL DEPTH (FT. BGS): 25	CASING ELEVATION (FT. AMSL): 4830.54340908
DEPTH TO WATER (FT. BGS): 21	GROUND ELEVATION (FT. AMSL): 4830.54340908



Drilling / Sample Method:

- Solid Stem Auger
- Split Spoon Sampler
- Hollow Stem Auger
- CME Continuous Sample Tube

Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab