Location: CO **Site:** E. Mccive (cctpx TRPq) **Date:** 70250213

Time: 1220 **Observers:** E. Mccive

Weather

	circled / option 1	option 2	option 3	option 4	option 5
Precip Rate	(None)	Very Light (0.5 cm/hr)	Light (1 cm/hr)	Moderate (5 cm/hr)	Heavy (10 cm/hr)
Precip Type	Rain	Snow	Graupel	Hail	Rain/Snow
Sky	Clear	Few (< 1/4 of sky)	(Scattered) (1/4–1/2 of sky)	Broken (> 1/2 of sky)	Overcast (complete cover)
Wind	Calm (0 mph)	(Light) (1–16 mph)	Moderate (17–25 mph)	Strong (26–38 mph)	Extreme (> 38 mph)
Tree Canopy	(No trees)	Sparse (5–20%)	Open (20–70%)	Closed (> 70%)	

Instrument

Instrument	Y/N	SN	Instrument	Y/N	SN
Digital LWC	N		Snow Scope	4	(5)
Stratigraphy pictures	Y		Lyte Probe	N	
Standard ram	Y		SMP	N	
Powder Ram	Y		Force Ram	Y	
Slush Ram	N		Force Snow Scope	Y	
HS Transects	N		Snow Scope Transects	N	
Pit Pictures	.		SSA / NIR Box	Y	(9)
Other	.				

Interval board SWE measurement

	Depth (cm)	SWE (mm)	Density (kg/m3)	Evidence of melt resulting in SWE loss? (Y/N)
Sample A				
Sample B				
Sample C				

Additional Comments

Ground condition	(Frozen)	Moist	Saturated
Ground roughness	(Smooth) (< 5 cm)	Rough (5–20 cm)	Rugged (> 20 cm)
Ground Vegetation	Bare	(Grass)	Shrub / Deadfall
Height of Ground Vegetation (cm)	10		

Pit / Hardness / Misc

CT13 SC @ 34 ↓
CT12 SC @ 36 ↓
ECTN14 @ 36 ↓

Ram Penetrometer Field Sheet

Location (Regional Scale): CO

Site (Study Plot): CLPX

Pit ID (SITEYYYYMMDD): CLPX 20250213 88

Date (YYYYMMDD): 20250213

Time (pit opened): 1120

Observers (first initial & last name): E McCue, C. Kinney

Snow Depth (cm): 88

LWC Device & SN: 1258, 526 (10¹ / 3¹¹)

UTME: 0426451 **UTMN:** 4411305 **Zone (two digit):** 13

GPS device & uncertainty: G 65 +/- 2m

Temperature profile times: START 1222 — END 1241

Density

Height above ground top – bottom (cm)	Density profile A (kg/m3)	Density profile B (kg/m3)	Extra Density (kg/m3)
83.2 – 68	15.2	21.5	141
68 – 65	3	9.5	283
65 – 50.8	14.2	31.5	222
50.8 – 28.8	22	48.5	220
28.8 – 14.7	14.6	41.5	284
14.7 – 0	14.2	33	232
68 – 78	127	131	
78 – 68	196	181	
69 – 58	218	218	
58 – 48	211	211	
48 – 38	233	233	
38 – 28	241	233	
29 – 18	296	287	
18 – 08	261	256	
12 – 02	240	284	

LWC

Permittivity profile A (unitless)	Permittivity profile B (unitless)	Height above ground (cm)
42.8	47.9	50
85.6	83.9	48
78.9	79.1	40
79.7	58.9	30
39.0	45.4	25
47.1	30.6	20
42.8	41.0	10
46.7	42.3	0
31.8	39.2	
52.5	14.5	

Temperature

Height above ground (cm)	T (°C)
84	-11.5
80	-14.5
70	-12.5
67	-11.5
63	-10.5
60	-9
50	-7
48	-6
40	-6
30	-5
25	-4
20	-3
10	-2.5
0	-1.5

Stratigraphy

Height top (cm)	bottom (cm)	Grain Size Max (mm)	Min	Avg	Grain Type	Hand Hardness	Manual Wetness	Stratigraphy Comments
84	67	1	0.3	0.5	DFdc	F	D	FCSF
67	63	0.8	0.1	0.5	RGwp	P	D	RGla
63	48	1	0.3	0.5	RGxf	F	D	
48	25	0.5	1	1	FCxr	F	D	DH cu some wps few Striplens
25	11	1	1.5	1.5	DHxr	1F	D	
11	0	11	1	2	DHla	4F	D	possibly rounding

Comments/Notes:

Location: CLPX CO
Site: FARP8
Pit: FASP8207SOL13

Date: 20150213
Time: 1314
Observers: E McCLUE b.kinney

X-Coord	Y-Coord	Time	Data Type	SN	Profile #	Force Gage	Force max N	Depth manual cm	Depth digital cm	Grnd Y/N	Comments
0	30	1314	Pow Pam					87	Y	Y	
30	30	1325	STD Pam					75		N	
0	60	1335	Snow Scope	151	434			88	74	Y	Forwards
30	60	1336	↓		435			90	82	Y	
60		1336			436			91	84		
90		1337	↓		439			92	86		
120		1338			940			84	85	↙	
0	90	1345	Flam			50	47.9	74			
30		1345	↓				46.25	75			
60		1345					46.7	77			
30		1345					70.85	78			
120	120	1345					-1	75			
0		1344	↓ Escape	151	941		11.15	80	77		Towards
120		1344			942		6.10	80	70		
60		1349			943		9.05	80	73		
90		1350			947		25.8	94	73		
120		1350	↓		946		26.25	88	74		
@STAKE		1350	Scope	151	947	↓		87	80		

Ram Penetrometer Field Data Sheet

Location: CO

Site: FASP8

Associated pit/transect/point: FASP8 20250213

Date: 20250213 Time: 1319 1325

Observer: E McCue S.Kinney

UTME: ___ UTMN: ___ Zone: ___

Ram type: ___ Ram mass: ___ kg

Tube weight			T	kg				
Hammer weight			H	kg				
Number of falls			n					
Fall height			f	cm				
Location of point			p	cm				
RN = T + H + nfH/p				kg				
RR = 9.81 (T + H + nfH/p)				N				

T	H	n	f	p	T	H	n	f	p	T	H	n	f	p
1.~	0	0	0	65			2	5	22			3	10	61
0.5	0.5	0	0	65					23			4	10	62
		3	1	55					24			2	20	63
		3	3	66			4	5	25			3	20	64
		2	5	67			1	10	26					65
				68					27					66
		1	5	69					28.5			4	20	67
				70			1	5	29			3	25	68
				71					30			2	25	69
		2	5	72			2	5	31					70
		1	5	73					32					71
				74					33.5					72
				75			1	5	35.5					73
				77			1	1	36					74
		1	3	79			1	2	37			3	25	75
				80			2	2	38.5					
				81			1	2	39					
				82			2	2	40					
		3	3	83					41					
				84			4	2	42					
		2	5	85			4	3	43					
				86			2	5	44					
		4	5	87			3	5	45					
							1	10	46					
0.?	0	0	0	3			2	10	47					
0.?	0.1	0	0	9			2	5	48					
		1	1	10			1	10	49					
				11			2	10	50.5					
		2	1	12			1	5	51.5					
		1	3	13			1	5	52					
				14			2	5	53					
				15			1	5	54					
				16					55					
		2	5	17			2	5	56					
				18					57					
				19					58					
				20			4	5	59					
				21			2	10	60					

Notes: