

Hammond, A.P., et al., 2019, The Aspen paleoriver: Linking Eocene magmatism to the world's largest Na-carbonate evaporate (Wyoming, USA): *Geology*, <https://doi.org/10.1130/G46419.1>

**Figure DR1A-P:** Study sites and measured stratigraphic sections in the Wasatch Formation, southern Wyoming.

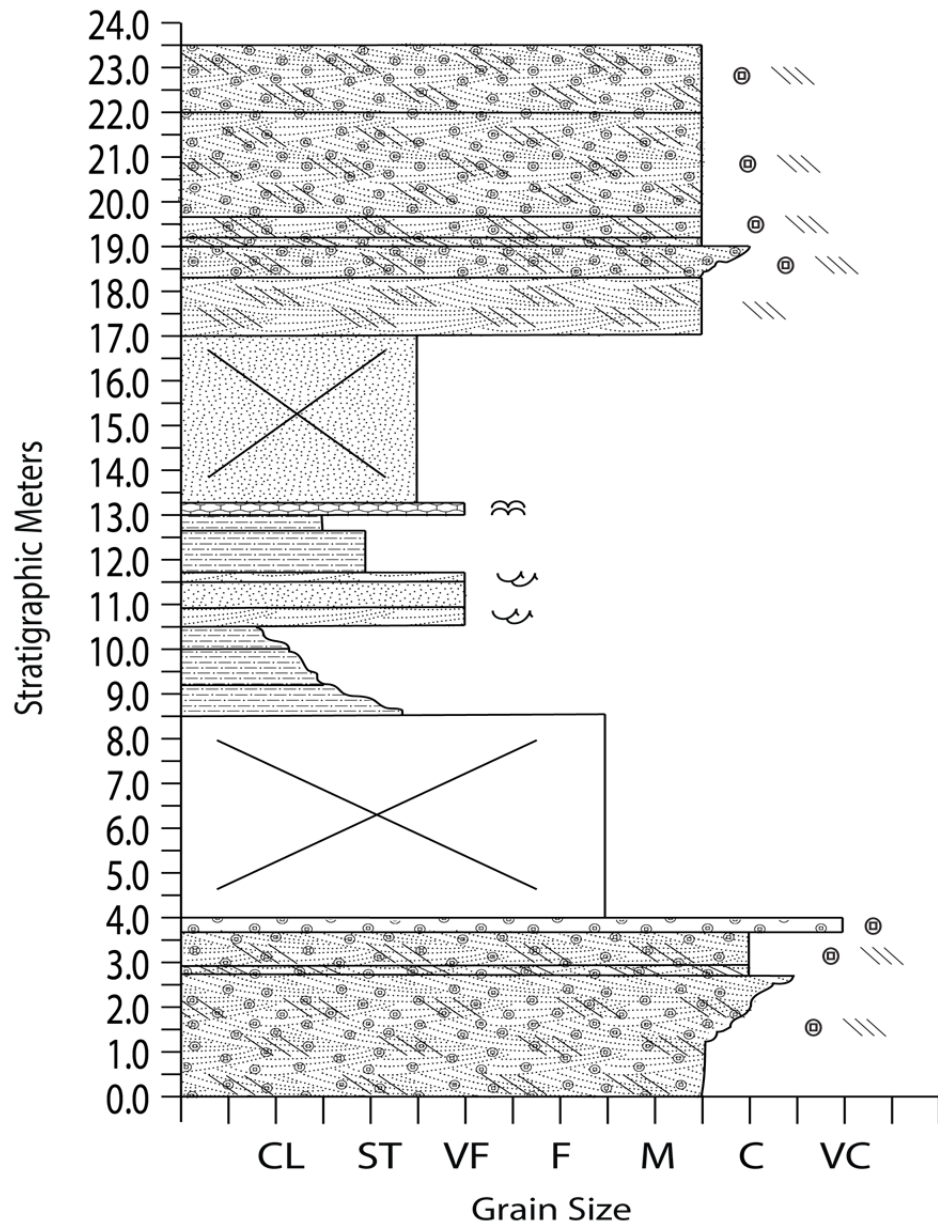
**Measured stratigraphic sections:**

Locality	Sample ID	Member	Latitude, Longitude
A. Cherokee Creek	CC	Cathedral Bluffs	41.01033°, -108.02724°
B. Hangout Ridge: #1	HOR	Cathedral Bluffs	41.09575°, -107.86373°
C. Hangout Ridge: #2	HOR	Cathedral Bluffs	41.09583°, -107.86384°
D. Hangout Ridge: #3	HOR	Cathedral Bluffs	41.09676°, -107.86500°
E. Hawk Ridge	(none)	Cathedral Bluffs	41.08458°, -107.86916°
F. McPherson Springs	MCP	Cathedral Bluffs	41.08605°, -107.94543°
G. Sand Creek Delta: #1	SDC	Cathedral Bluffs	41.09517°, -107.92923°
H. Sand Creek Delta: #2	SDC	Cathedral Bluffs	41.09565°, -107.92905°
I. Sand Creek Delta: #3	SDC	Cathedral Bluffs	41.09755°, -107.92999°
J. Sand Creek Delta: #4	SDC	Cathedral Bluffs	41.09311°, -107.92918°
K. Sand Creek Delta: #5	SDC	Cathedral Bluffs	41.09739°, -107.92973°

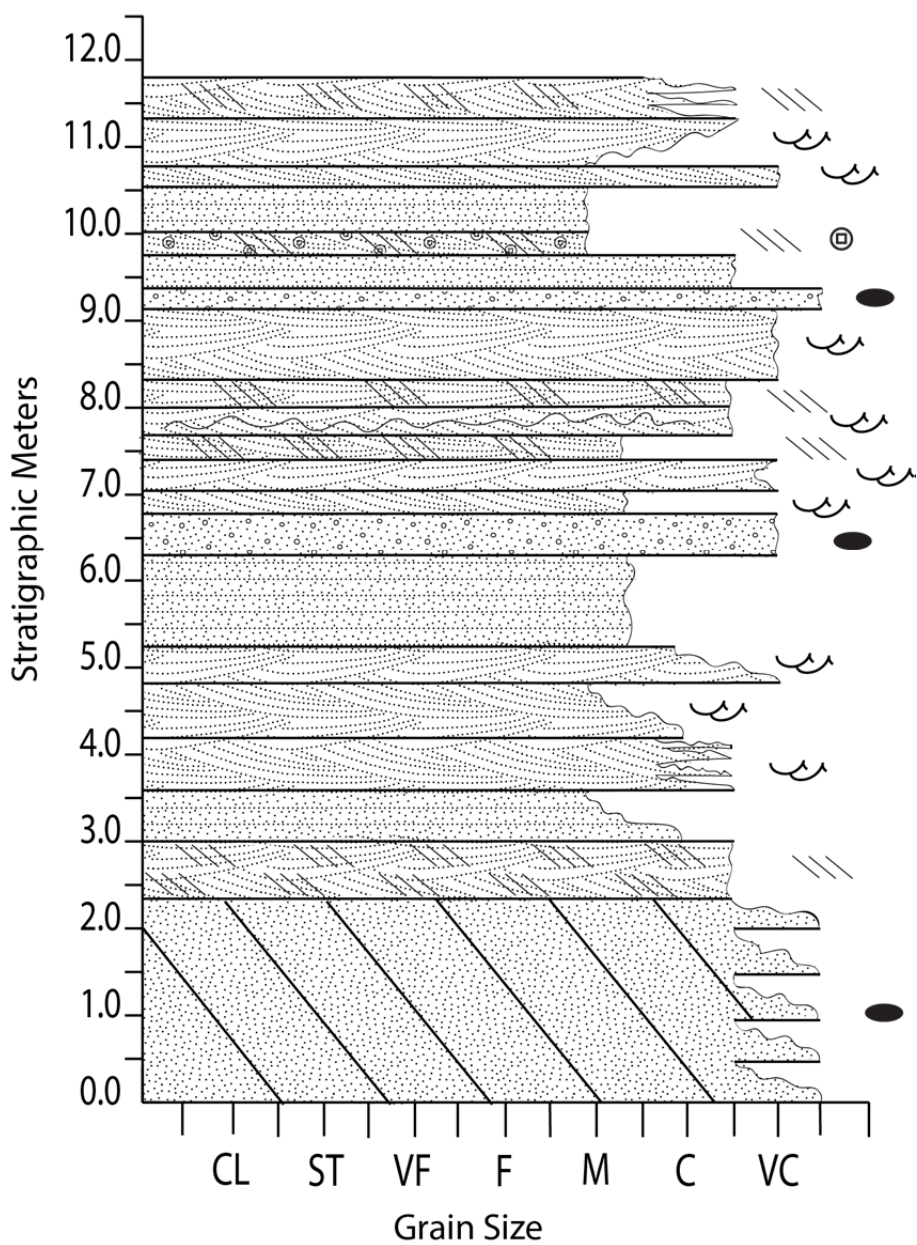
**Other study sites:**

L. Hangout Wash	(none)	Cathedral Bluffs	41.10846°, -107.88181°
M. Red Creek	(none)	Cathedral Bluffs	41.04498°, -107.86577°
N. Cowfeed Sandstone	(none)	Cathedral Bluffs	41.07309°, -107.95064°
O. Cannonball Ridge	(none)	Cathedral Bluffs	41.01608°, -108.03209°
P. County Road 148	CR-148	Main Body	41.00566°, -107.92300°

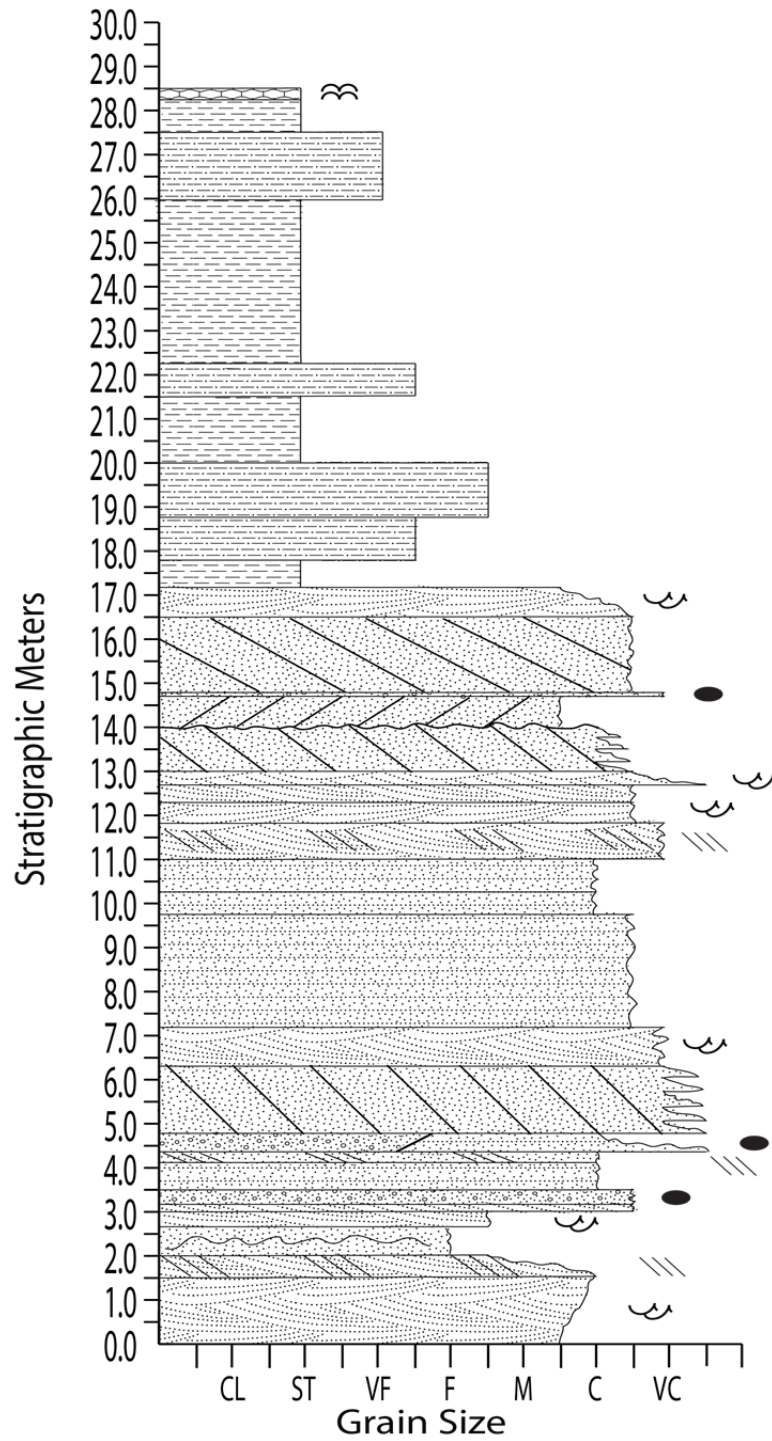
# Cherokee Creek



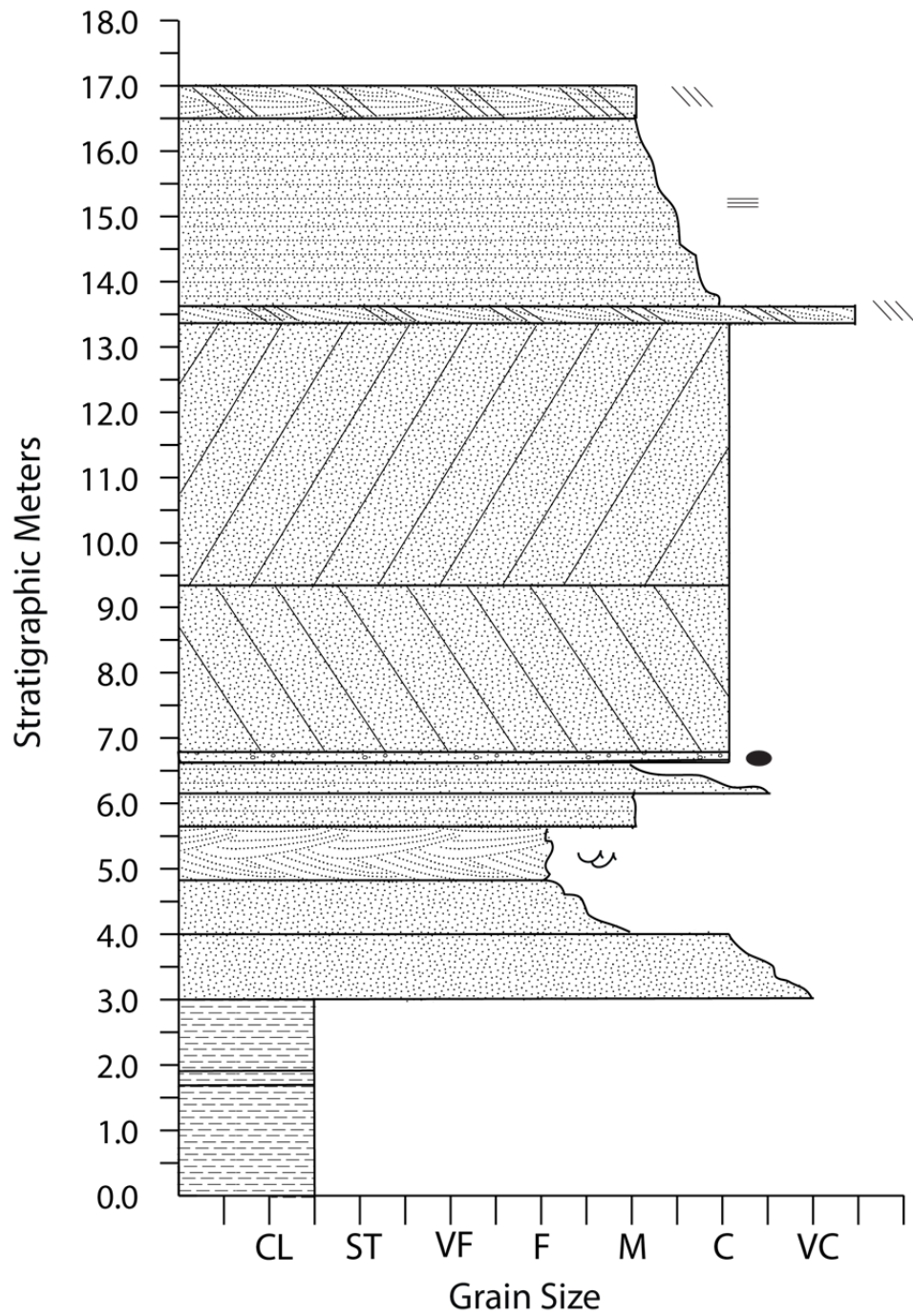
# Hangout Ridge: #1



## Hangout Ridge: #2

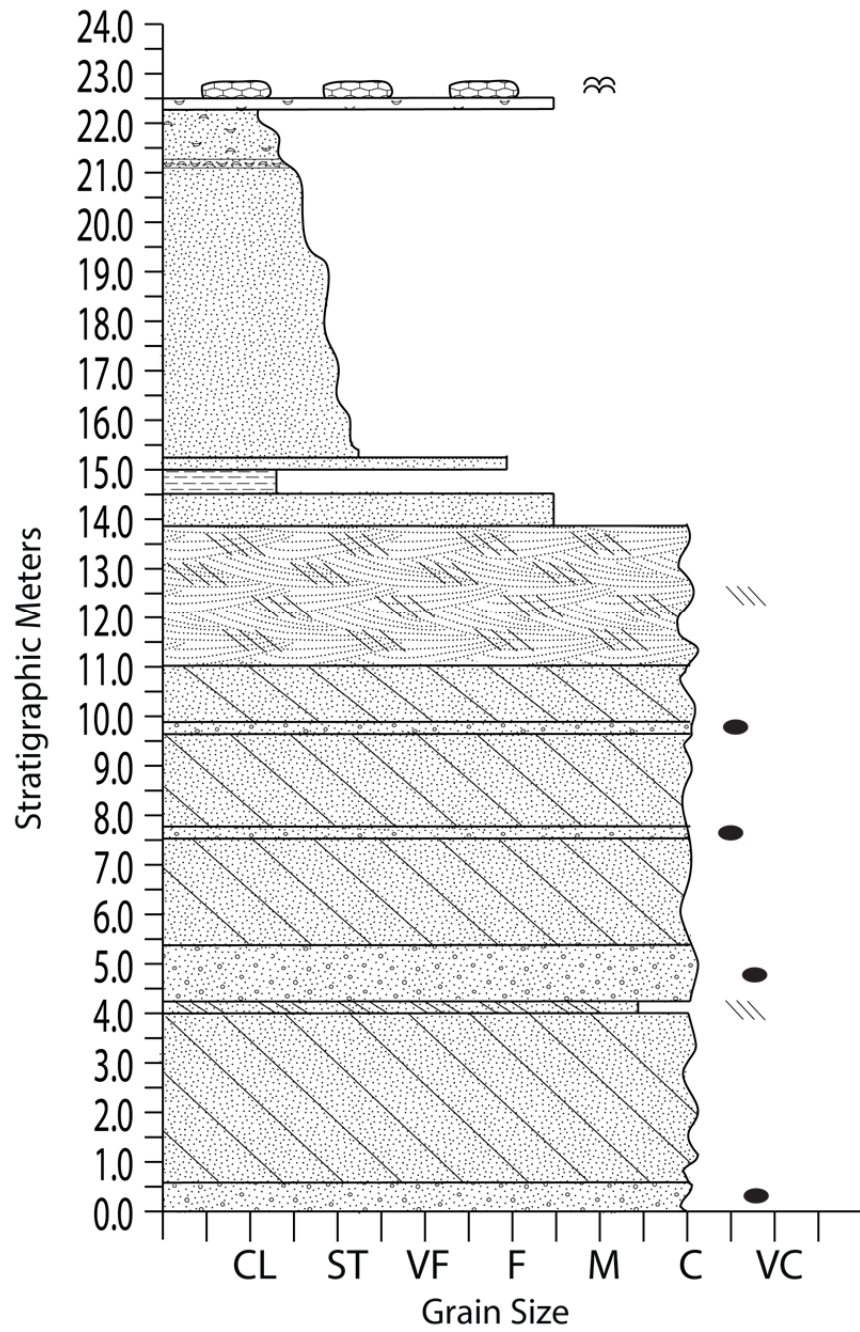


# Hangout Ridge: #3

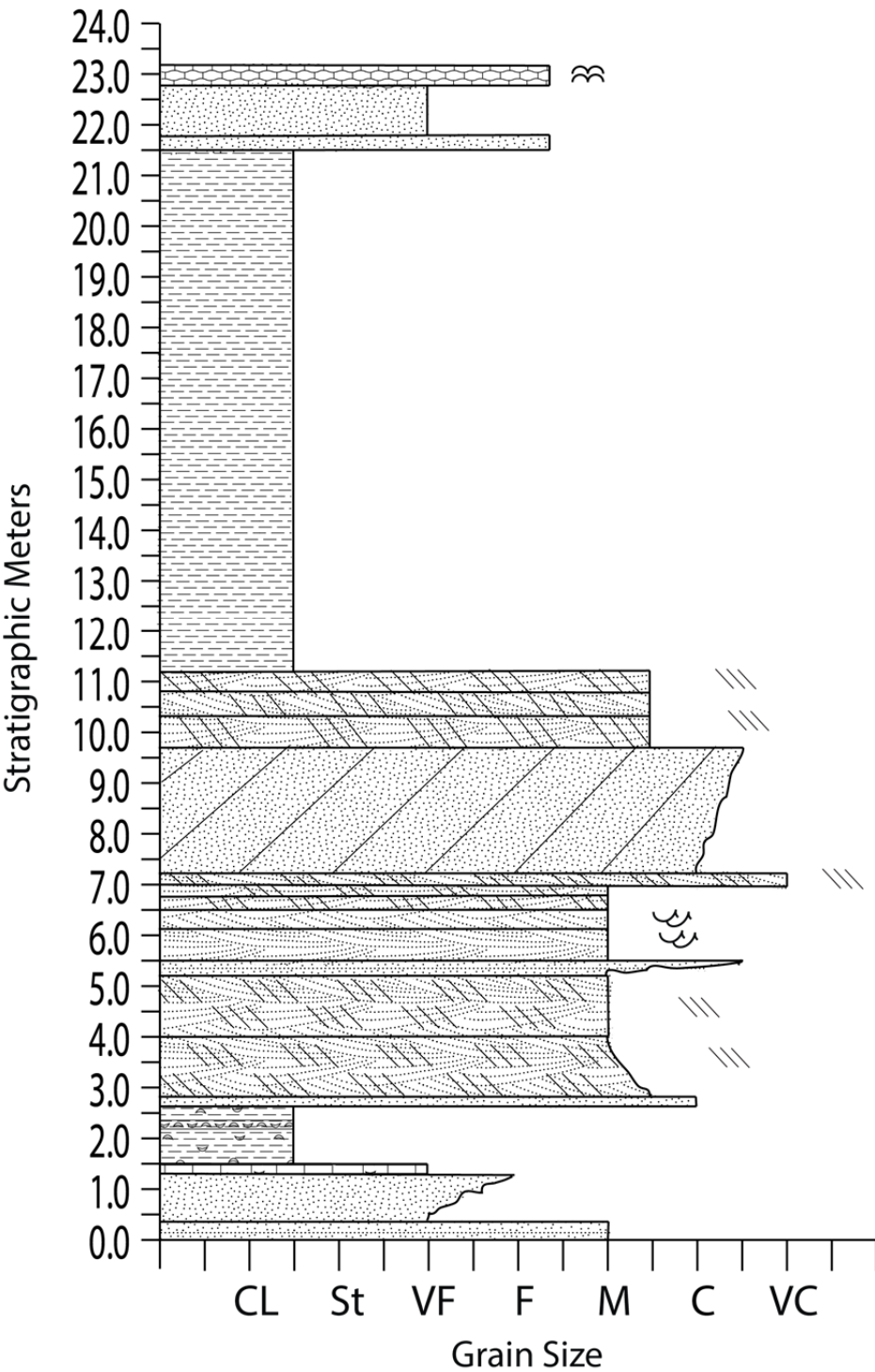


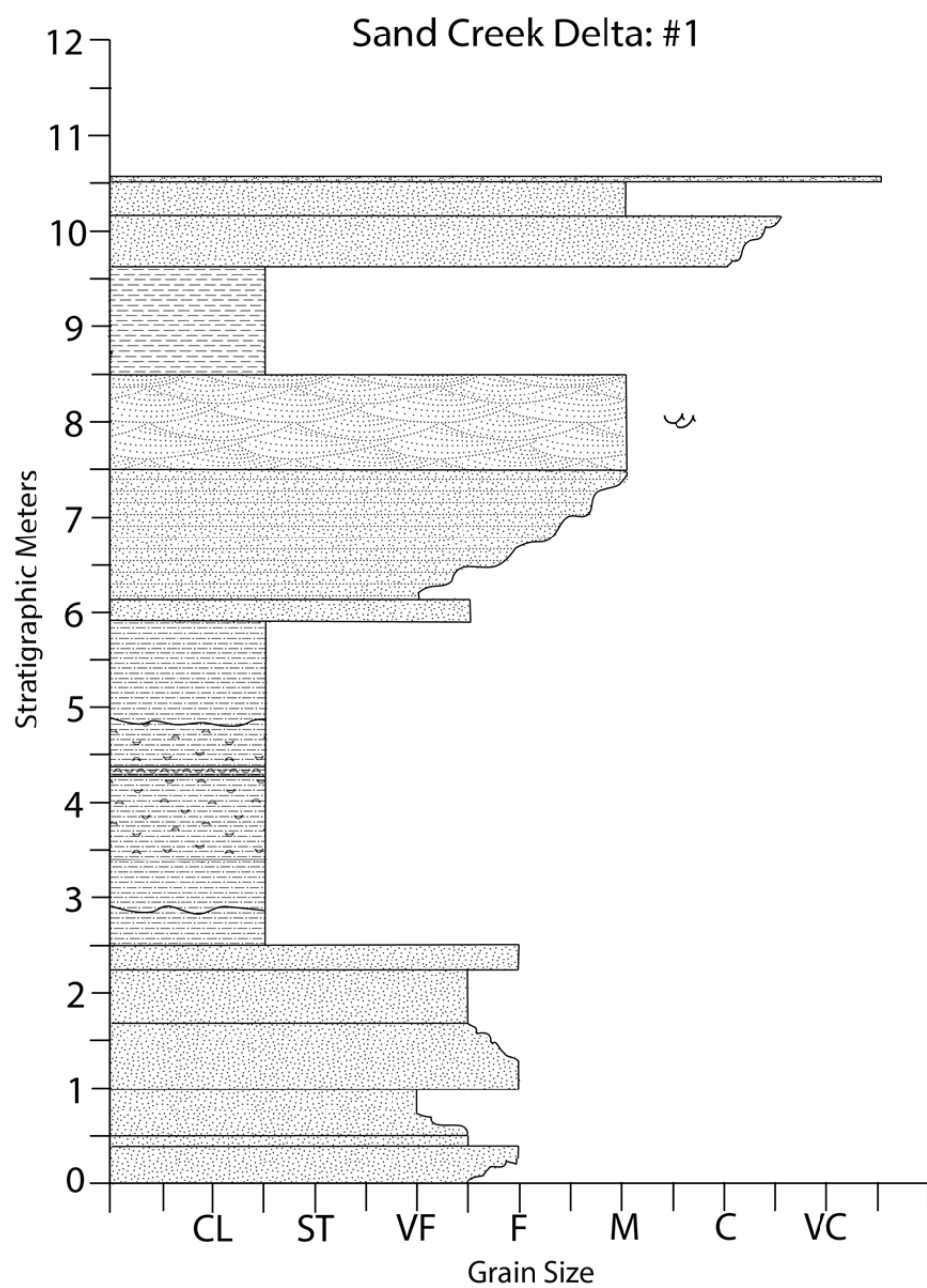


# Hawk Ridge



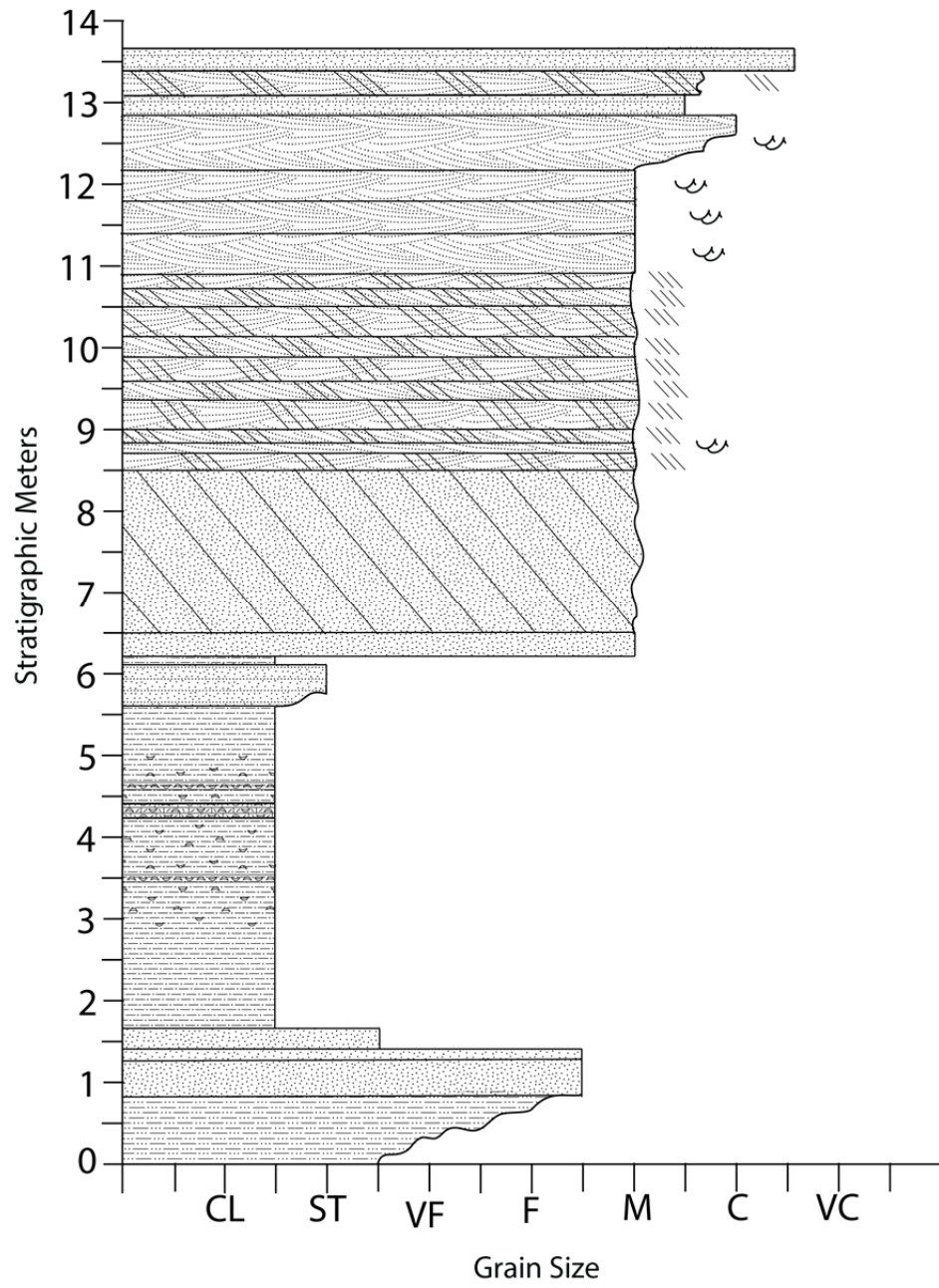
# McPherson Springs



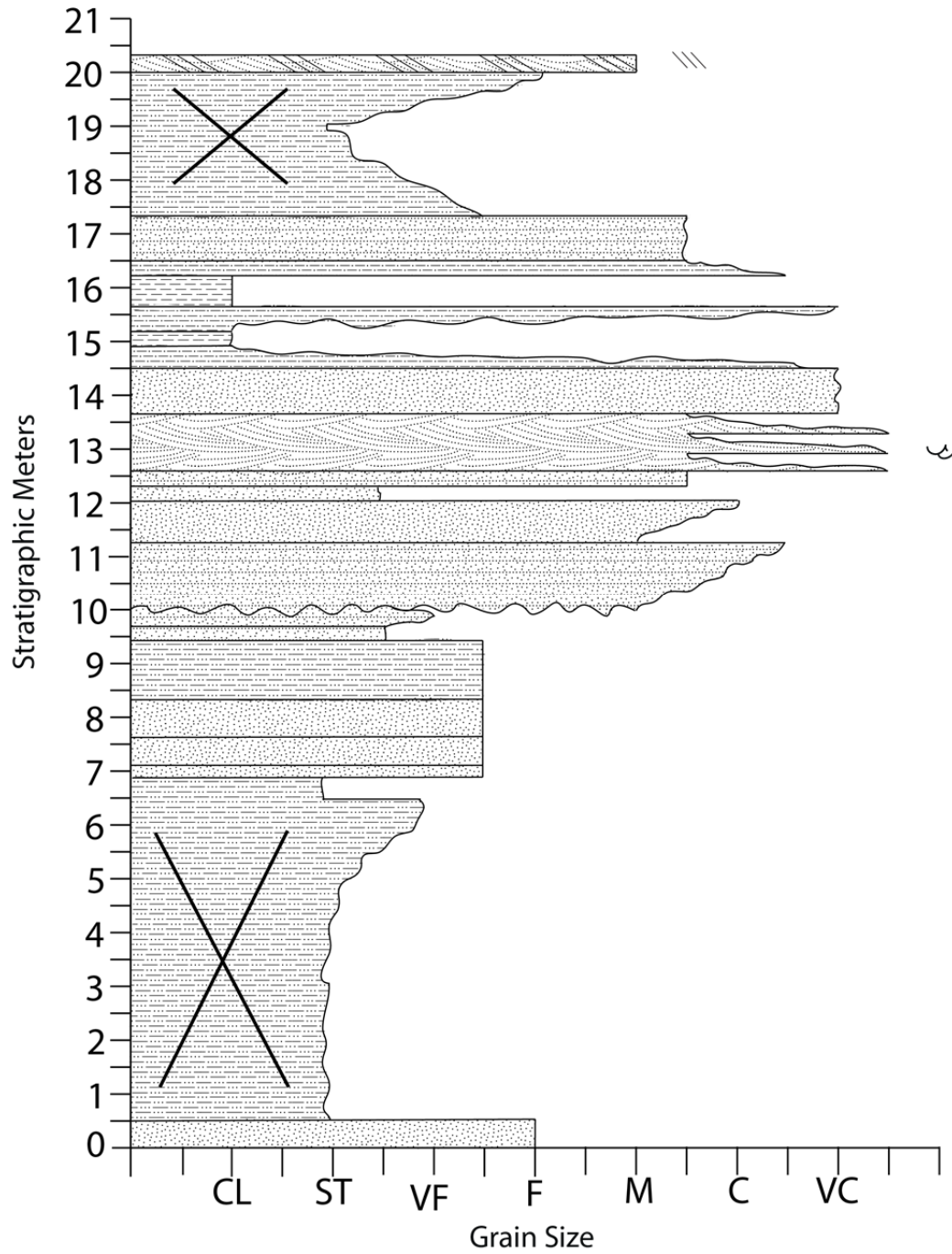




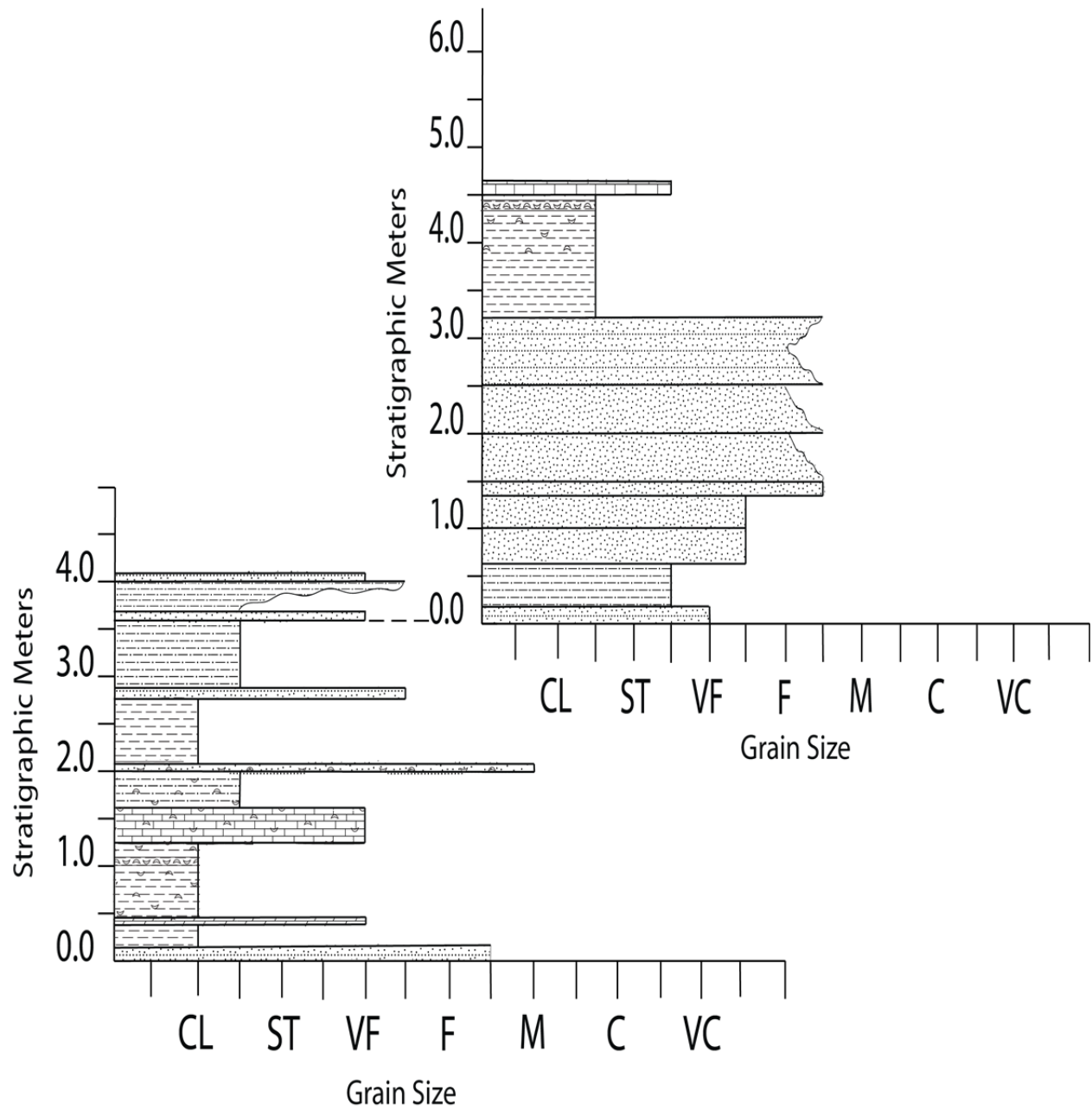
# Sand Creek Delta: #2



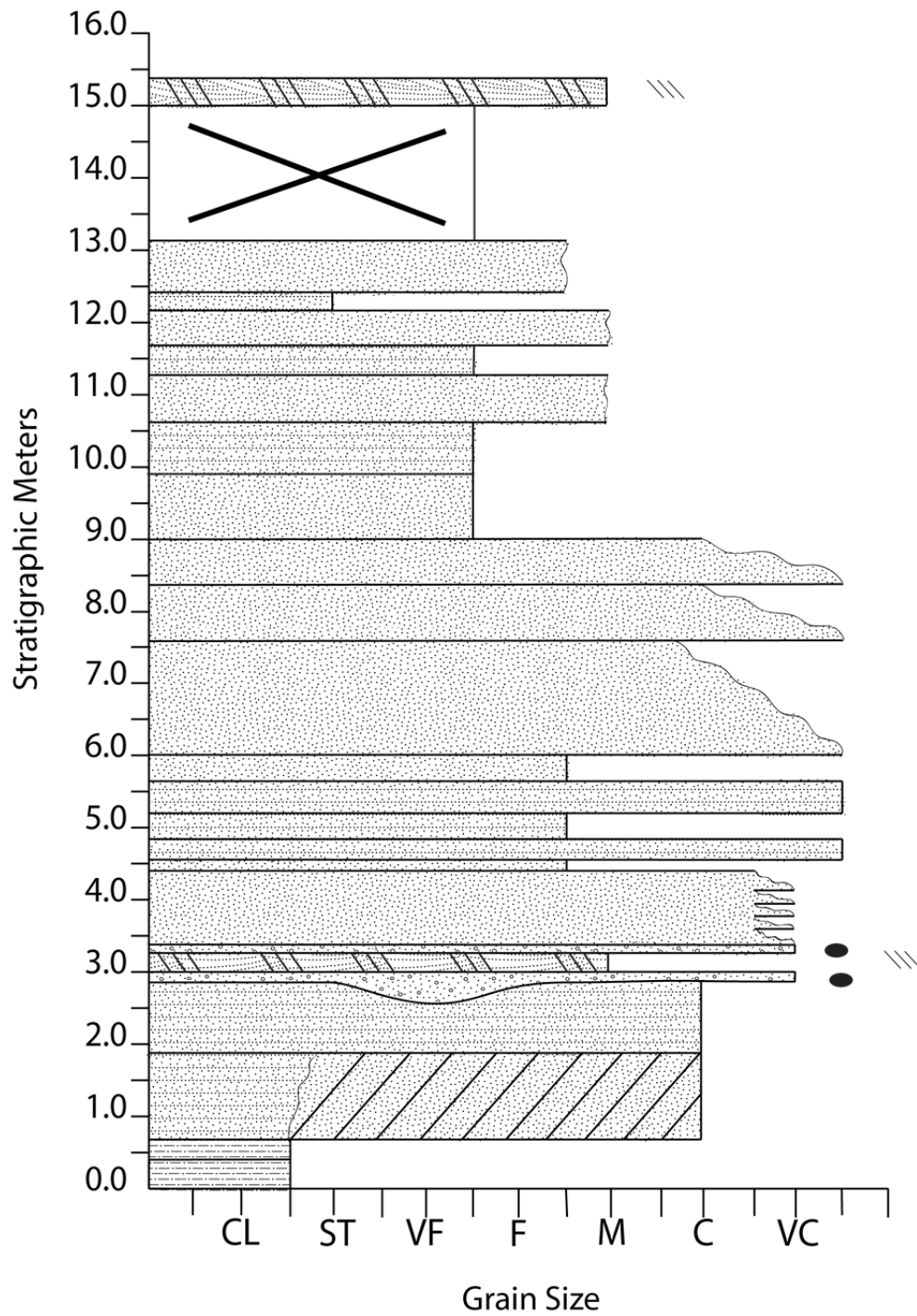
# Sand Creek Delta: #3



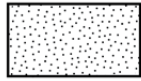
# Sand Creek Delta: #4.1-4.2 (up and down stream)



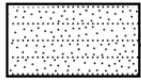
# Sand Creek Delta: #5



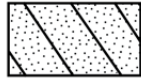
## STRATIGRAPHIC LEGEND



Massive sandstone or sand



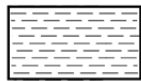
Bedded sandstone



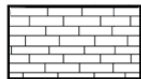
Lateral Accretions or Foresets



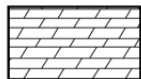
Silty sandy clay



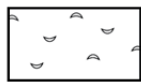
Clay or mudstone



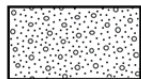
Limestone



Dolostone



Ostracod fossils



Coarse channelfill



Scree/Alluvium



Trough Cross-beds



Planar Cross-beds



Concretions



Claystone Intraclasts



Stromatolites



Planar Laminations



**Table DR1:** Sandstone point-count data from the Wasatch Formation, southern Wyoming.

	<b>County Road 148 (CR-148)</b>	<b>McPherson Springs (MCP)</b>	<b>Hangout Ridge (HOR)</b>	<b>Sand Creek Delta (CDC)</b>	<b>Cherokee Creek (CC)</b>
Q <sub>monocrystalline</sub>	172	171	206	205	200
Q <sub>polycrystalline</sub>	9	23	19	5	6
Q <sub>tot</sub>	181	194	225	210	206
Plag	15	17	13	28	4
K-feldspar	97	89	126	116	130
Feldspar <sub>tot</sub>	112	106	139	144	134
Lithic <sub>volcanic</sub>	6	12	14	6	14
Lithic <sub>sedimentary</sub>	50	17	24	21	50
Lithic <sub>metamorphic</sub>	4	6	13	6	6
Lithic <sub>tot</sub>	60	35	51	33	70
Chlorite	8	3	9	13	6
Unidentified	10	7	5	6	2
Mica	49	1	1	23	16
Accessory	0	1	1	2	2
Total Count	420	347	431	431	436

Sandstone thin sections stained for potassium feldspar and plagioclase; see Ingersoll et al. (1984) for detailed description of point-counting methods.

Ingersoll, R.V., Bullard, T.F., Ford, R.L., Grimm, J.P., Pickle, J.D., and Sares, S.W., 1984, The effect of grain size on detrital modes: a test of the Gazzi-Dickinson point-counting method: *Journal of Sedimentary Research*, v. 54, p. 103–116.

Table DR2. Detrital zircon age data  
2019361\_Table DR2.xlsx