SITE 3: MORONY DAM - BASIN MARGIN SHOREFACE FACIES & INCISED VALLEY

Facies Succession:
- Kk4 - fluvial
- coastal plain
- tidal flat
- tidal shoreface Member
- disconformity
- Kkc - fluvial

SITE 4: BELT CREEK - BASIN MARGIN ESTUARY MUDSTONE & BAR

Facies Present:
- estuary mudstone
- tidal bar

CONCLUSIONS
- The Sunburst member represents a lobate estuarine complex that lies at the southern end of the pre-Kootenai Whitlash paleovalley system.
- The tide-dominated deposits of the Sunburst member mark the southernmost extent of the Aptian transgression.
- The transect that is perpendicular to the paleovalley and paleobasin axes and defined by the four study areas along the Missouri River gorge demonstrate the change from high to low energy tide-dominated settings across an estuary.
- The highest energy facies are located near the middle of the basin (Site 1: Ryan Dam) and undergo a transition to the low energy mud-dominated facies near the margin of the basin (Site 4: Belt Creek).

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