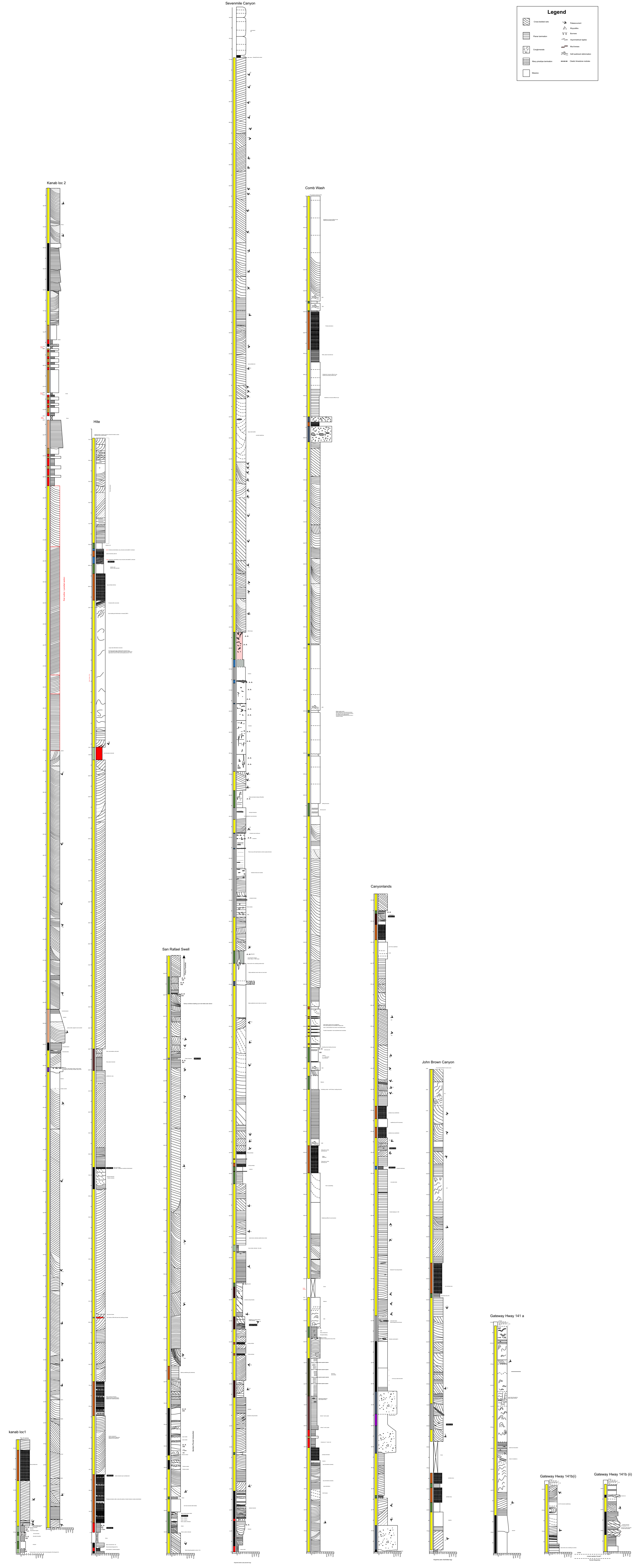




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Appendix A2: Sedimentary logs of the Navajo Sandstone for all outcrop sites visited. The logs locations are provided in Figure 8.1. Note that variations in scale may occur in some logs.

Colour	Lithology and Texture	Sedimentary Structures	Other features	Process of Deposition	Feature
	Fine- to medium-grained sand, well sorted, subrounded to well-rounded, white/pale yellow/ red	Tabula cross-strata, Wedge cross-strata, trough cross strata.	massive to weak reverse-graded laminae, reactivation surfaces, soft-sediment deformation, Rhizoliths, burrows	grainfall, grainflow	Aeolian Dune
	very fine to medium-grained sand, bimodal, subrounded to well-rounded, white/pale yellow/red	mm-scale lamination (pinstripe)	Wavy	wind blown ripples	Dry interdune (sandsheet) / wind ripple lamination
	Silt to fine sand, moderate sorting, quartz, white	Massive, planar horizontal lamination, assymetrical ripples	mud/sand lenses, rhizoliths, soft-sediment deformation	subaqueous suspension settling, unidirectional current forming ripples	Wet Interdune
	Mud to silt, red	Massive, planar horizontal lamination	dessication cracks, sand lenses	subaqueous suspension settling	Wet Interdune
	Limestone/dolostone, crystalline or micritic. Grey to light brown	Massive, planar horizontal lamination	Elephant skin weathering, algal mat structures, sand/mud lenses	Chemical precipitate out of water column. Subaqueous suspension settling	Lacustrine
	Limestone/dolostone. Fine to medium sand in a calcareous matrix. Light brown	Massive; planar horizontal lamination, cross-bedded	Elephant skin weathering, Soft sediment deformation common	capillary action. Diagenetic processes	Damp dunes or Secondary
	Very fine to fine sand, moderate sorting,	Ripple cross lamination, planar lam	Taphony weathering common	low flow regime, unidirectional current	Wet interdune corridors
	Mud to silt, red	Planar horizontal lamination	May contain Rhizoliths, burrows, bleached horizons, sand lenses, fissile	subaqueous suspension settling	overbank
	Course sand, poorly sorted, angular quartz, heavy minerals, dark purple	Massive	Erosional at base, wavy upper contact	high energy aqueous	Fluvial
	Fine- to medium-grained sand, poorly sorted, sub-angular, red	Planar cross-bedding / horizontal planar lam	Channel form, erosive contact at base, may upward fine, may contain mud rip-up clasts	high energy aqueous	Fluvial (confined)
	Coarse to very coarse sand, poorly sorted, angular to sub-angular, red	Planar cross-bedding, down cutting, generally upward fining	Channel form, erosive contact at base	high energy aqueous	Fluvial (confined)
	Silty to fine sand, moderate sorting	Massive	Commonly interbedded with mm-scale siltstones	shallow persistent aqueous flows	Fluvial, sheet flood (unconfined flow)
	Conglomerate pebble to cobble, matrix supported, poorly sorted. Polymictic	Sometimes imbrication	erosive at base, sometimes rip-up clasts of underlying outcrop	high energy aqueous	Fluvial, sieve (unconfined flow)