Sedimentary Structures

1. Crevasse channel on floodplain
2. Floodplain fines
3. Channel?
4. Stacked fluvial channels
5. Floodplain soil
6. Channel fill sandstone
7. Lacustrine

EOH

St George LB07 - 0.0 m - 67.0 m

Vertisol

Moderately-sorted clay rich fine sand with increasing clay content up-section

Palaeo-root system cemented, pale-grey/rusty-red mottled very-fine sand

Mottled, very poorly-sorted upper-fine sand with medium sand basal section and coarse sand lags common in lower section. Clay content increases up-section

Cross stratified, rusty-red/grey, poorly-sorted medium sand

Faintly laminated, rusty-yellow/grey, poorly-sorted medium sand with rare mud rip-up clasts in lower section

Moderately sorted lower very-coarse clayey sand

Parallel cross-stratified sand

Mottled floodplain palaeosol

Interbedded floodplain muds and fine sand

Very-fine to fine sand with clay-rich interbeds *palaeosol clays have high organic content

Moderately-sorted medium clay-rich sand

Poorly-sorted lower-coarse to upper-medium sand

Grey, poorly sorted upper very-coarse grading to upper-coarse sand with gravel lags and trough cross-stratified

Transgressive surface-lag of reworked underlying sediment

* exposure surface

** infilled terrestrial burrow

Mottled rusty-red

Pale leached/mottled weathering zone

Rusty-red FeO banding

Sand dominantly rust-red colour with Fe bands and concretions common

Upper very-fine sand interbedded with fine sand laminae

Coarsening upwards section from very-fine sand to upper very-fine sand. Clay laminae and rip-up clasts abundant. Sand is dark rusty-red and clay is pale

Identified very thin horizontal stratification the sand horizon

Identification of strata suggests features of the sand horizon are non-consolidated, and thus some may be erosional in nature

Identified very thin sand. May represent dune or large coastal dune, or possible dune or coastal ridges or bars. Not clear what these are from this core.

This may not be the sand horizon, some other horizon may have been lost.

Identified very thin sand horizon.

Identified very thin sand horizon.

Faint yellowing indicates minor degree of diagenetic alteration.