

Z-Area Geomorphology Trip 1/25/2017 (U)

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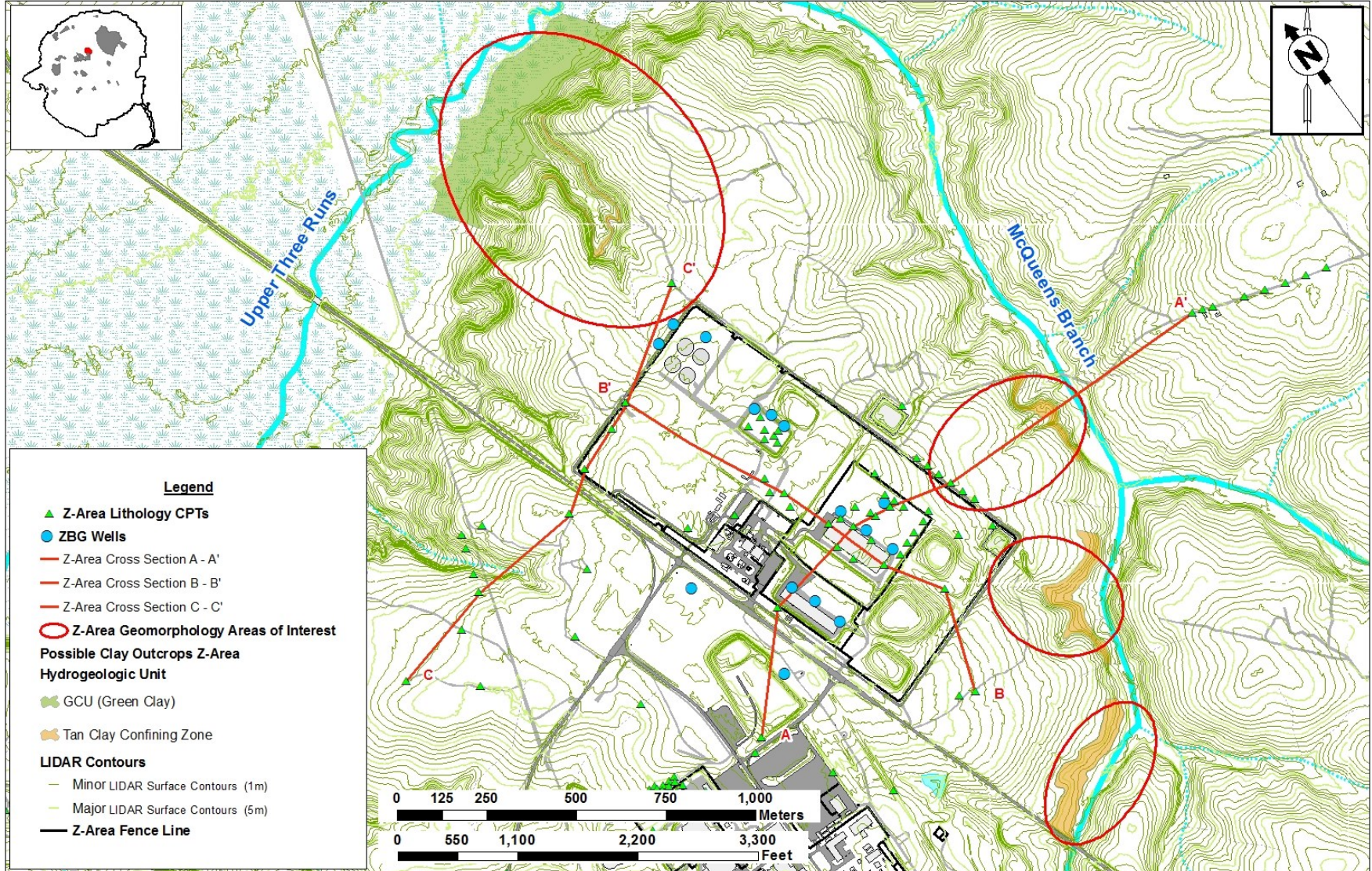
Hydrostratigraphy Description General Separations Area (GSA) at SRS

- Hydrogeologic Framework of West Central South Carolina, Rolf Aadland (WSRC), Joseph A. Gellici (SC DNR), Paul A. Thayer (UNC – Wilmington), State of SC Dept. of Natural Resources, Water Resources Division, Report 5, Page 40, 1995.

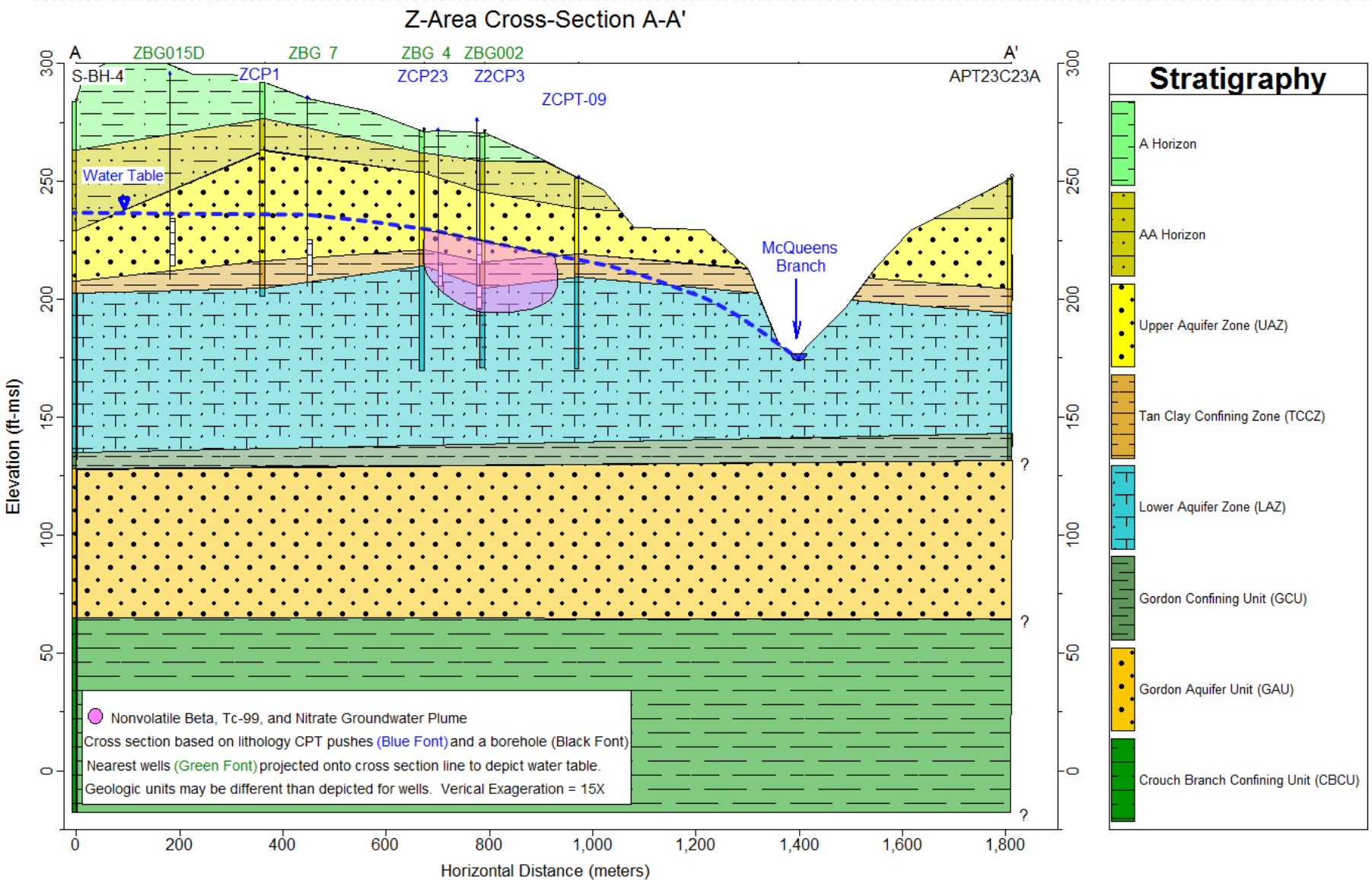
“ The vast amount of hydrogeologic data available for the Upper Three Runs aquifer is from wells in the General Separations Area at SRS (Figs. 2 and 3). Thus, the discussion that follows is largely focused on that area. In GSA, the “upper” aquifer zone consists of all saturated strata in the upper parts of the Dry Branch Formation and the Tobacco Road Formation that lie between the water table and the “tan clay” confining zone (Plate 40). The aquifer zone has a general downward hydraulic potential into the underlying aquifer units. Confining beds of the “tan clay” located near the base of the Dry Branch Formation impede the vertical movement of water and often support a local hydraulic-head difference between the Barnwell Group sediments and underlying Tinker/Santee Formation. The “lower aquifer” zone of the Upper Three Runs aquifer occurs between the “tan clay” confining zone and the Gordon confining unit and consists of sand, clayey sand, and calcareous sand of the Tinker/Santee Formation and sand and clayey sand of the lower part of the Dry Branch Formation (Plate 40).

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Z-Area Geomorphology Areas of Interest

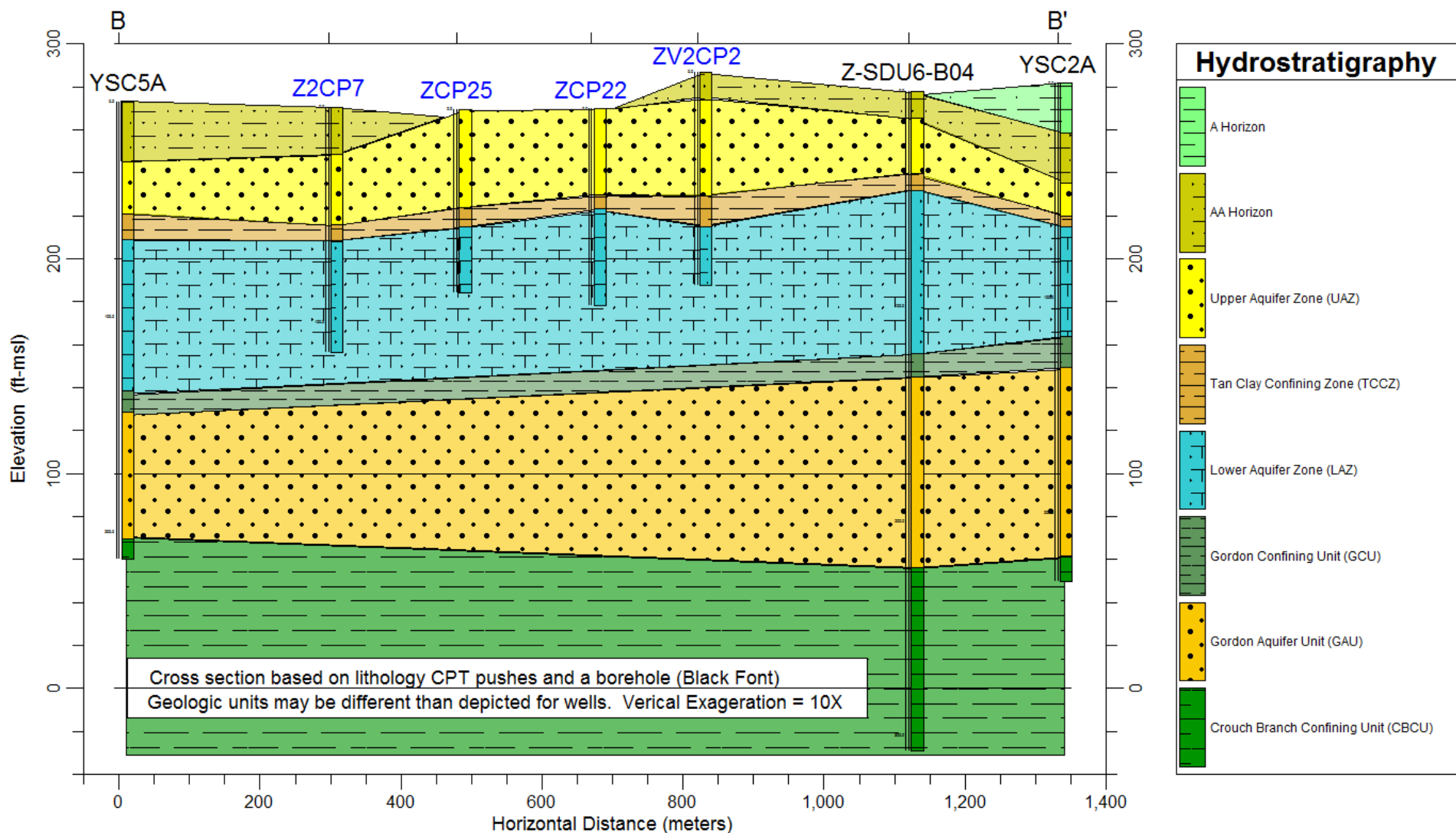


Z-Area Cross Section A – A'

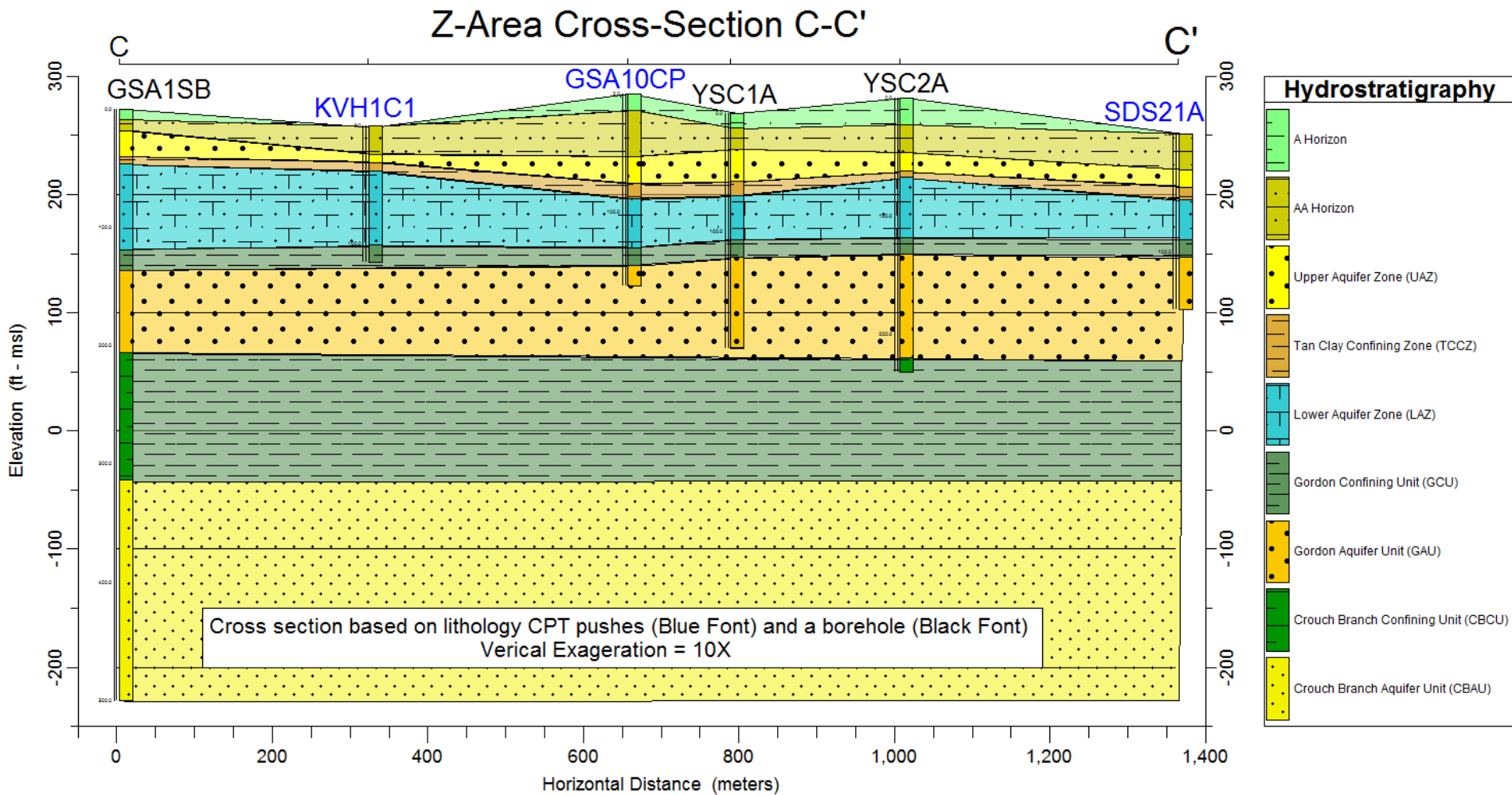


Z-Area Cross Section B – B'

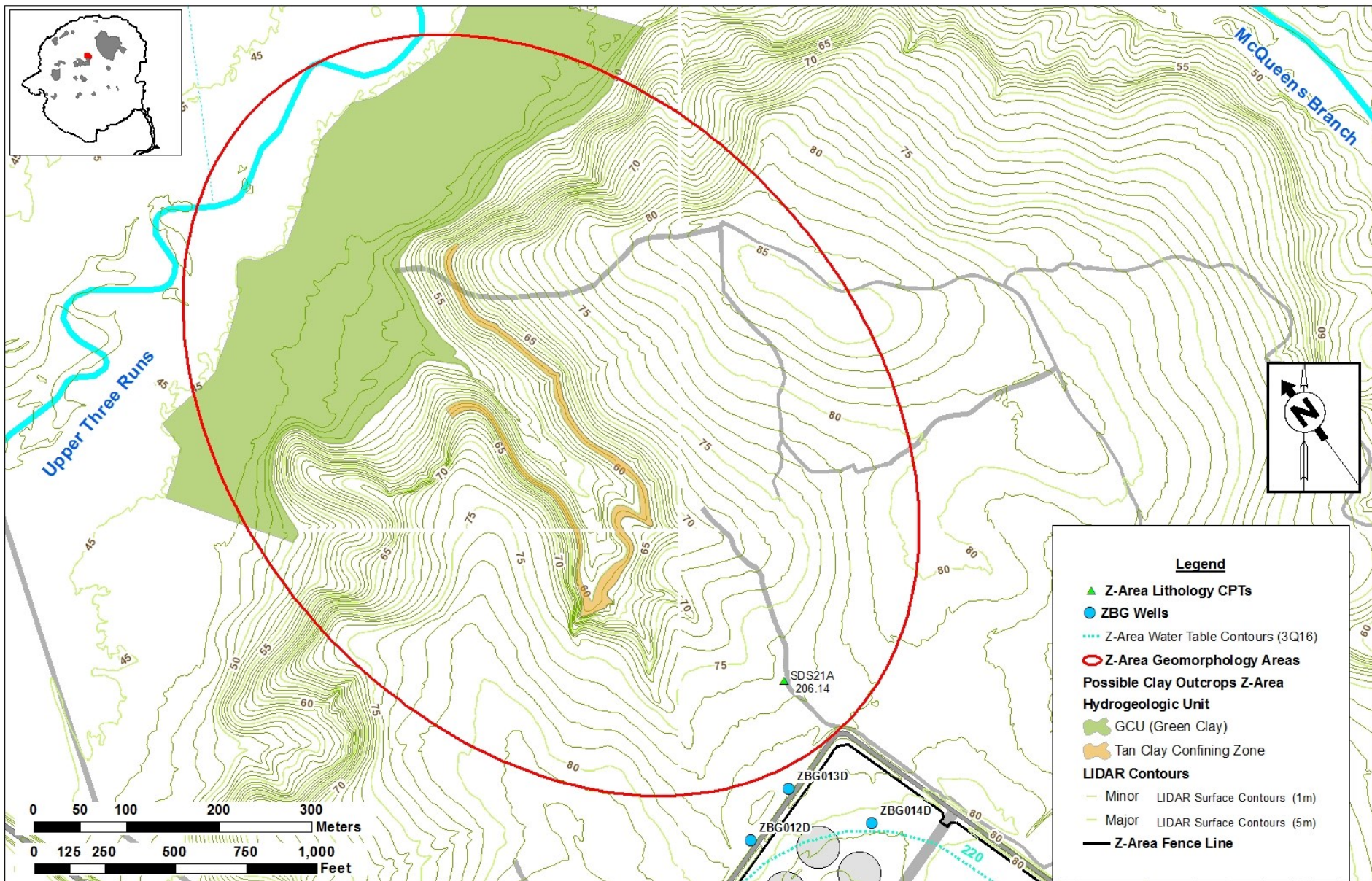
Z-Area Cross-Section B-B'



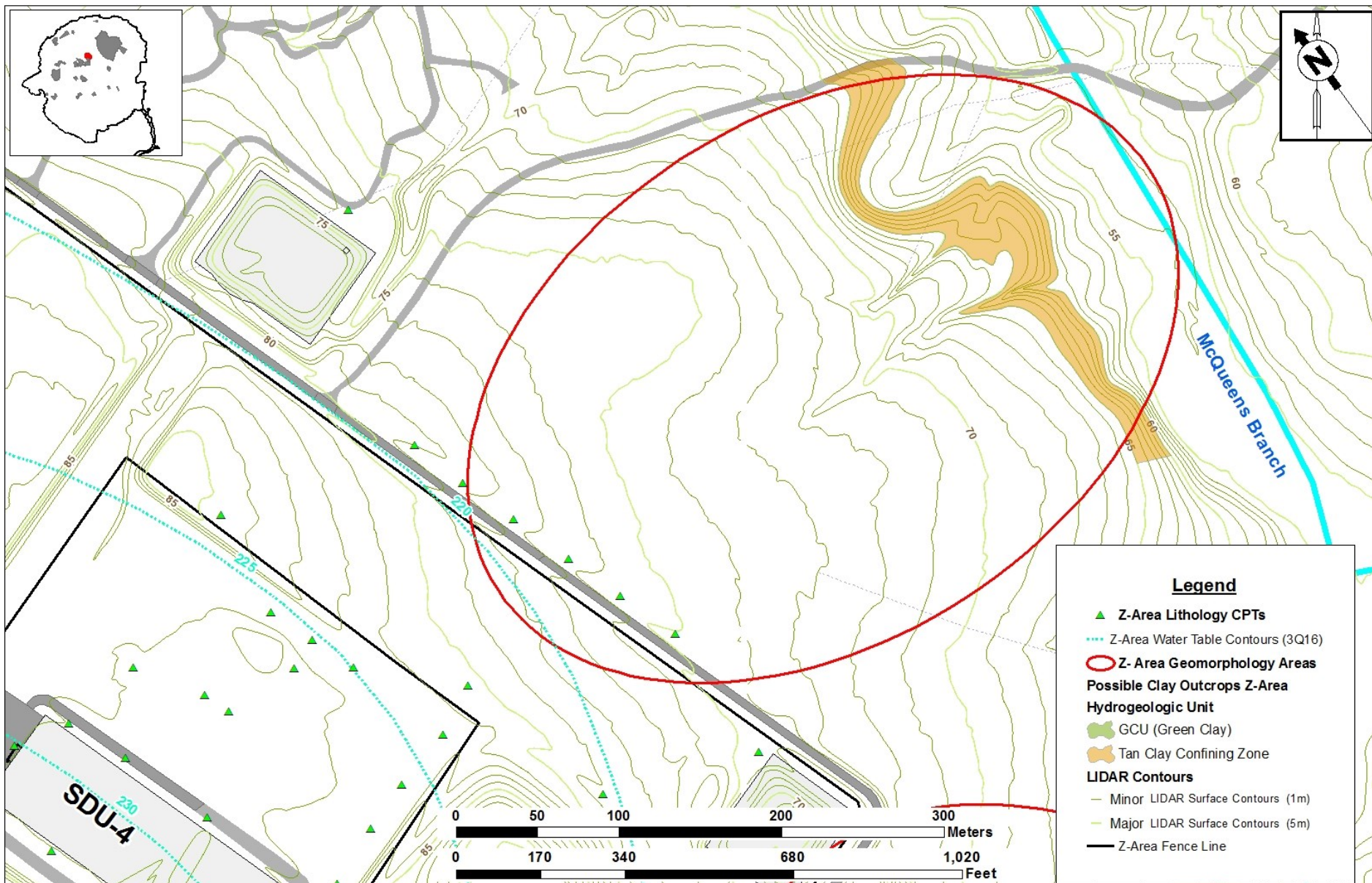
Z-Area Cross Section A – A'



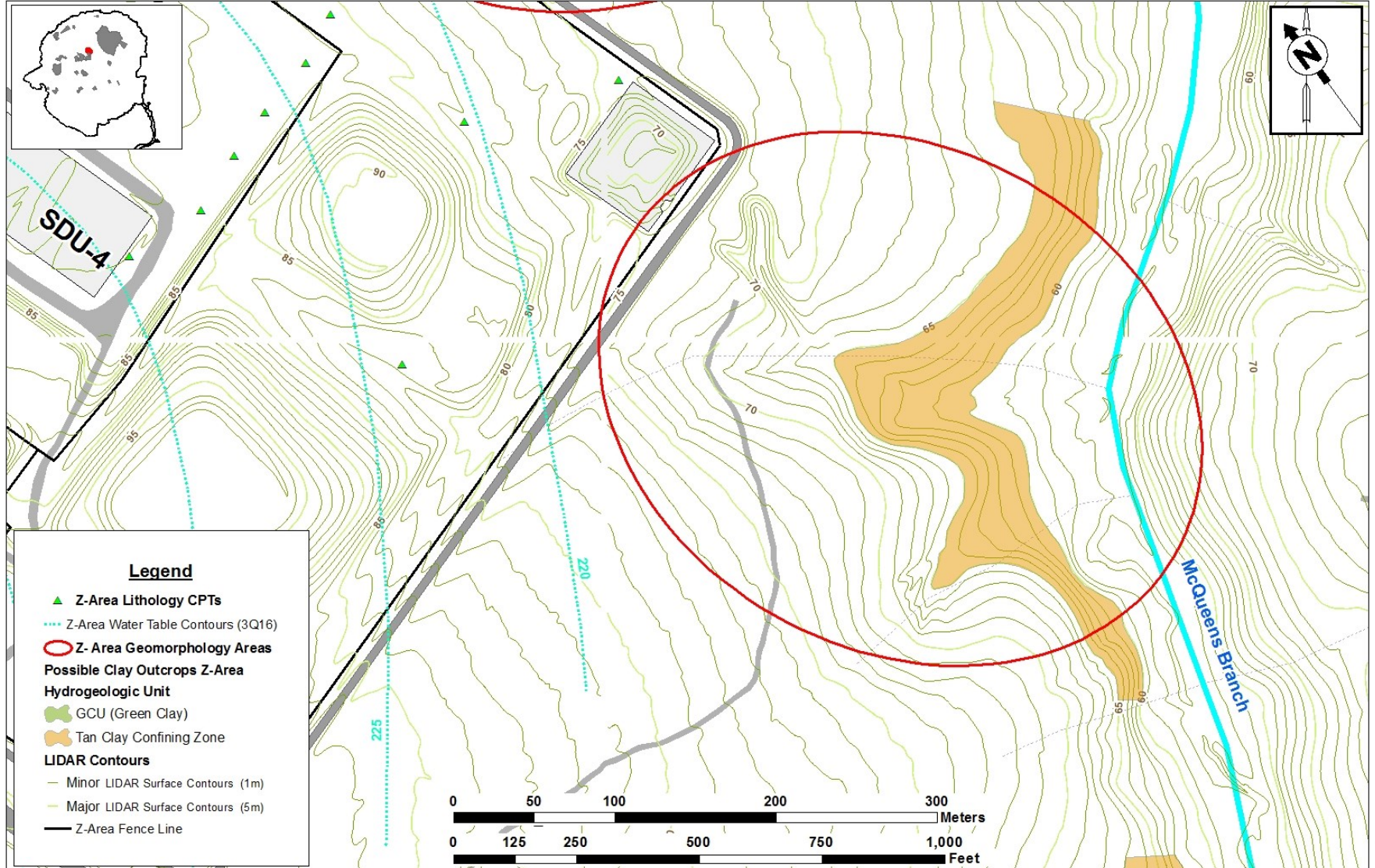
Geomorphology Area A-1



Geomorphology Area B-1



Geomorphology Area B-2



Geomorphology Area B-3

