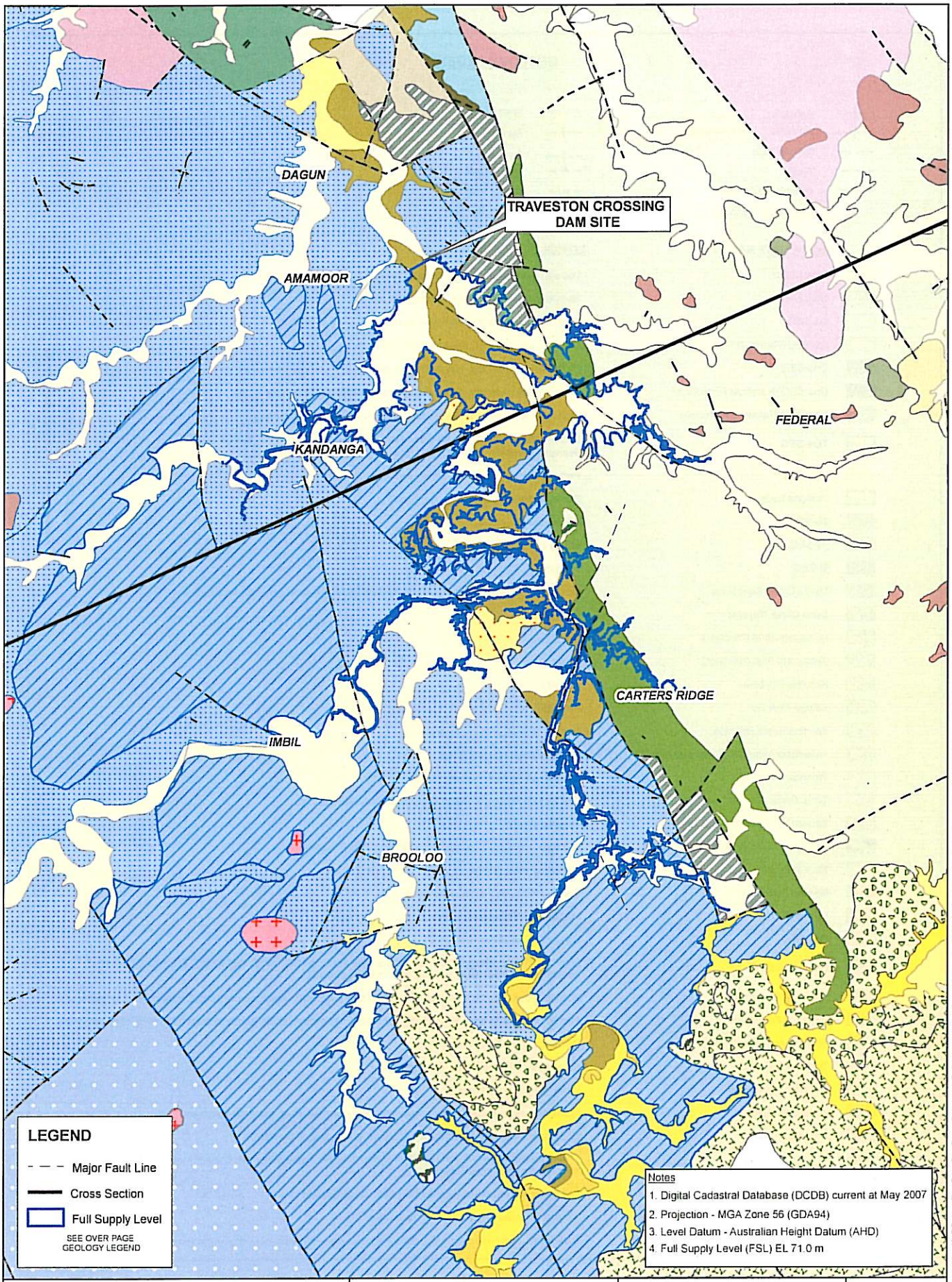
Attachment 3 – Figure 5-42 Local Geology and Structure



QUEENSLAND WATER INFRASTRUCTURE PTY LTD

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FIGURE 5-42

TRAVESTON CROSSING DAM EIS

LOCAL GEOLOGY AND STRUCTURE

DRAWING NUMBER

100449

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GEOLOGY LEGEND

- Anticline
- Antiform
- Dyke or Vein
- Fault
- Overturned Anticline
- Overturned Syncline
- Shear Zone
- Syncline
- Synform
- Thrust Fault
- Upright Antiform
- Upright Synform

ROCK UNIT NAME	LITHOLOGY DESCRIPTION
Qha/1-9543	Lowest river terrace; gravel, sand, silt, clay
Qha/2-9543	Second river terrace; sand, silt, clay, gravel
Qa-SEQ	Clay, silt, sand, gravel; flood plain alluvium
Qa-SEQ>Rammutt Formation?	Clay, silt, sand, gravel; flood plain alluvium
Qpa-SEQ	High level alluvium; silt, clay, sand, gravel
Qpa-SEQ>Rammutt Formation?	High level alluvium; silt, clay, sand, gravel on Rammutt Formation?
Qpa-SEQ>Tamaree Formation	High level alluvium; silt, clay, sand, gravel on Tamaree Formation
TQa-SEQ	Locally mottled, poorly consolidated sand, silt, clay, minor gravel; high-level alluvial deposits, generally dissected, and related to present stream valleys
TQr-SEQ	Pediment slope wash, clay, scree, soil
Pomona beds	Shale, sandstone, conglomerate, basalt
Tb-SEQ	Olivine basalt
Tv-SEQ	Mainly basalt flows
Ti-SEQ	Rhyolite
Myrtle Creek Sandstone	Quartzose sandstone, orthoquartzite, sublabile to labile sandstone, siltstone, shale
Carol Creek Rhyolite	Rhyolitic tuff
Kenilworth Bluff Rhyolite/1	Rhyolitic tuff
Kenilworth Bluff Rhyolite/2	Rhyolitic tuff
Kilcunda Rhyolite	Rhyolite
Wappa Rhyolite	Rhyolite
Yandina Creek Rhyolite	Pumice and Clast-rhyolitic ignimbrite
Kullangoor Member - Basal Andesite	Andesite flows and intrusives
Woondum Granite	Granite, granodiorite, adamellite, quartz diorite
Tungi Creek Granodiorite	Biolite-hornblende granodiorite; hornblende-biotite granite
Eerwah Vale Tonalite	Tonalite, diorite
North Arm Volcanic Group	Andesite, rhyolitic volcaniclastics and flows, minor sediments
Kin Kin Beds	Arenite, argilite, phylite
Keefton Formation	Conglomerate, red shale, sandstone
PRg/g-SEQ	Hornblende-biotite granodiorite
Pg?-SEQ	Sandstone, siltstone, mudstone
Cambroon Beds	Argilite with subordinate locally calcareous greywacke, pebble conglomerate and pebbly sandstone, haematitic siltstone; minor basaltic to andesitic volcanics
Rammutt Formation	Altered andesite to basaltic andesite, dacitic tuff, sandstone, shale, carbonaceous mudstone, coonglomerate
Rammutt Formation?	Altered andesite to basaltic andesite, dacitic tuff, sandstone, shale, carbonaceous mudstone, coonglomerate
South Curra Limestone	Bioclastic grainstone, calcilutite
Tamaree Formation	Sandstone, siltstone, shale, conglomerate
Tamaree Formation?	Lithic labile arenite, shale
Booloumba Beds	Quartzose meta-arenite, argilite, haematitic slate, pillow basalt, volcaniclastic breccia
Amamoor Beds	Mudstone, slate, basic metavolcanics, chert, schist, jasper, greywacke
Amamoor Beds/1	Thin to medium-bedded, tightly folded, cream to beige, fine grained quartz arenite interbedded with khaki to light brown shale
Amamoor Beds/2	Buff shale, slate, siltstone and minor chert; locally phyllitic
Amamoor Beds/b	Basaltic to andesite metavolcanic lava flows
Peters Creek Greenstone	Dark green, massive to strongly foliated, coarse-grained metagabbro and volcaniclastic rocks

Decreasing Relative Age

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FIGURE 5-42

TRAVESTON CROSSING DAM EIS

LOCAL GEOLOGY AND STRUCTURE LEGEND

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