



## BRITT SHARKEY

### Senior Engineer

#### Qualifications

*Bachelor of Engineering 2000, JCU*  
*Registered Professional Engineer of Qld, 16744*  
*MIE Aust*  
*Associate Professional Cert, Safety in Design*  
*Soil Erosion & Sediment Controller, Accreditation No. 2010-007*

#### PROFESSIONAL EXPERIENCE

##### Training

*Level 1 Bridge Inspection*  
*(ARRB Group)*  
*Level 2 Bridge Inspection*  
*(ARRB Group)*  
*Traffic Theory & Applications*  
*(ARRB Group)*

##### Inductions

*Port of Townsville*  
*Xstrata*  
- TOPS  
- CRL  
- PORT

##### Skills

*Structural steel, timber and*  
*concrete design*  
*Industrial and mining*  
*maintenance management*  
*Project management*  
*Contract administration*  
*Site supervision and inspections*  
*Tender documentation*  
*Investigations and reports*

##### Project Types

*Structural Condition*  
*Assessment*  
*Shopping Centres*  
*Residential Buildings*  
*Multistorey buildings*  
*Educational Facilities*  
*Industrial Developments*  
*Warehousing Projects*  
*Commercial Developments*  
*Sporting Facilities*  
*Footbridge Construction*  
*Defence Authority Projects*

#### LCJ ENGINEERS PTY LTD

##### Senior Structural Engineer 2004 - Present

Britt is a senior Structural Engineer with LCJ Engineers and lives in Townsville. She received her degree from James Cook University and has experience in the design and construction supervision of most building materials including reinforced and precast concrete, hot rolled structural steel, timber and masonry construction.

Britt is also LCJ Engineers' Quality Assurance Manager. At LCJ Engineers Britt is responsible for the management of technical staff, coordination of structural documents, preparation of proposals, condition and structural reports and project planning on a wide range of projects.

Britt has been involved with the following bridge projects:

- **Mount Stuart Road Bridge** (2015) – Level 3 inspection to determine structural adequacy of bridge including design and documentation of works to ensure bridge is capable of withstanding T44 loading.
- **Rollingstone Creek Timber Bridge** (2015) - Assessment of the existing concrete components, being the concrete abutments and the piers/headstocks on the existing Rollingstone Creek Timber Bridge. A TMR Level 3 inspection of the existing concrete components was carried out and a structural capacity assessment was provided. A load rating on the existing structural components was provided based on the Level 3 inspection, assessment and non destructive testing of the existing structural components.
- **Heavy Vehicle Route, Lavarack Barracks** (2014) - A new fleet of vehicles created the need to review the road network to allow heavy vehicle access. Works included an assessment of traffic volumes during normal, low and high tempo exercise periods and how this was impacted by creating a designated heavy vehicle route.
- **Lavarack Barracks culvert/bridge inspections** – (2012) Assessment, analysis and reporting of all culverts and bridges to ascertain their maximum live load capacity. Defence sites assessed included Lavarack Barracks, Townsville Field Training Area, Mount Stuart Training Area, Tully Training Area and Ross Island Barracks.
- **Structural and condition assessment of the Palm Creek timber pedestrian bridge, Memorial Gardens, Ingham** (2012) - An inspection of the approaches, waterways, decks, substructures and superstructures was carried out to record the bridge construction and layout. All components of the bridge, both structural and non structural were documented. A cost benefit ratio between repairing and demolishing the bridge was

---

also completed.

- **“Nathan” Bridge, High Range Training Area, Townsville** (2010) - This project included inspection and theoretical assessment of the bridge and suggested placement and type of signage.
- **6m pedestrian bridge at Soroptimist Park, Townsville** (2005) - Structural design included floor board design, bracing design balustrade frame, subfloor design, footing design and retaining wall design.

Britt has been involved with the following condition reports:

- **Old Theatre roof on the School of Arts Building** (2015) – Site inspection to assess the roof framing. Advice on the adequacy of the supporting roof structure and possible upgrading and assessment options were provided to ensure the structure complied with current design standards. Preparation of a roof framing and bracing option for the building which had to comply with heritage constraints.
- **Structural Services for Facilities Planning and Delivery Project – Master Initiation Council Reference No. RQ000438** (2014) - Britt reviewed this project which involved a condition assessment and a structural assessment to determine the current cyclonic rating of the Townsville City Council Customer Service Centre in Walker Street, Townsville. Cost estimates for modifications required to ensure it could be used as a Disaster Coordination Centre where provided as part of the report.
- **Structural inspection of Xstrata Port Facility** (2012) - This was a periodic structural inspection of site structures including buildings, pipe bridges, tanks and suspended walkways.
- **Holcim (Humes) site, Townsville** (2014) - Britt reviewed the structural audit report of this site. The structural audit was to ensure that any structure, or part of a structure, which may have posed a risk to safety, damage to property and/or the environment was identified and categorised.
- **Copper Refinery Townsville** (2011) - Britt reviewed the condition report for the site which involved a periodic structural inspection of site structures including buildings, pipe bridges, tanks and suspended walkways etc.
- **Condition report for Australian Institute of Marine Science, Townsville main laboratory complex and administration building** (2009) - This project involved the reassessment of the condition of the building and appraisal of the adequacy of repairs conducted as part of former works.
- **Australian Institute of Marine Science (AIMS) saltwater tanks 1 and 2** (2013) – Site inspection, analysis and interpretation of testing results and preparation of report on the condition of the tanks with recommendations for repair or replacement.

**SUN METALS CORPORATION, Townsville**  
**Civil/Maintenance Engineer 2002 – 2004**

**BRAMBLES QUEENSLAND NICKEL, Townsville**  
**Contract Administrator 2000 – 2002**