

Ordinary Council Meeting

28 June 2022

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These attachments to be retained for Council Meeting

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CLARENCE RIVER COUNTY COUNCIL



**PALMERS ISLAND
BANK STABILITY BETWEEN CS14 AND
CS15, AND NEAR CS11**

**Issue No. 1
JUNE 2000**


Patterson Britton
& Partners Pty Ltd
consulting engineers

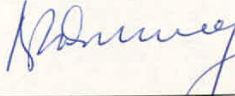
CLARENCE RIVER COUNTY COUNCIL



PALMERS ISLAND BANK STABILITY BETWEEN CS14 AND CS15, AND NEAR CS11

Issue No. 1 JUNE 2000

Document Amendment and Approval Record

Issue	Description of Amendment	Prepared by [date]	Verified by [date]	Approved by [date]
1	Final	CJD (23-6-00)	BMD (23-6-00)	

Note: This document is preliminary unless it is approved by a principal of Patterson Britton & Partners.

Document Reference: **rp3069ejd000623**
Time and Date Printed: 16:10 23 June, 2000

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INTRODUCTION

In an earlier study (1992), Patterson Britton & Partners (PBP) recommended that Council re-examine the stability, and risk of failure, of the river banks between cross section (CS) 14 and CS15 (as shown on **Figure 1**), as an extension to the 1992 PBP report.

Council decided to undertake this further investigation, and commissioned PBP to assess the stability of the above region. The investigation involved:

- Surveying two cross sections (one new cross section and repeat of CS14A),
- Drilling two boreholes,
- Geotechnical testing and slope stability analysis on one representative soil profile,
- Review of hazard lines, and
- Preparation of revised hazard line maps.

Council extended the scope of the brief to incorporate the area around McConnells Lane, as shown on **Figure 1**. The riverbanks in front of the properties owned by Mr Paul Reid and Mr Ed Hoskins were examined. The additional work involved two additional hydrosurvey cross sections and visual assessment of bank stability.

Council further extended the scope to include a property owned by the Leviny's. No additional cross sections were specified.

RESULTS OF HYDROSURVEYS

River bank cross sections were carried out by the Department of Public Works and Services (DPWS).

Plots of the cross sections can be found in **Appendix A**. A plan showing the locations of the cross sections can also be found in **Appendix A**. All levels are reduced to *Iluka Port Datum*.

Between CS14 and CS15

Two cross sections were carried out between CS14 and CS15. The first was a re-survey of CS14A, and the second was a new cross section, denoted as CS14B, located approximately 190m upstream of CS14A (see **Appendix A**).

CS14A

The re-survey of CS14A indicated that within the expected accuracy of the survey, the profile of the bank in this region had not changed significantly since 1998. It remains steep with maximum (near the top of the bank) and average slopes of 3.3V in 1H and 1V in 1.7H respectively, and a total height of 14m. The low point of the channel is approximately 25m from the top of the bank.

CS14B

Located closer to CS15, this profile shows a slightly steeper slope than CS14A (ie maximum and average slopes of 1V in 1H and 1V in 1.6H respectively), but the total height of the slope is lower at 9m. The toe of the steeper portion of the slope is approximately 10m from the crest of the bank.

