

610AA

GAA/BMB/52170

REFERENCE No:

YOUR REFERENCE:

Further Contact: Mr. Greg Alderson.

BYRON SHIRE COUNCIL



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ALL COMMUNICATIONS TO BE
ADDRESSED TO THE SHIRE CLERK

Mr. J. Mangleson,
P.O. Box 6,
MULLUMBIMBY...NSW...2482.

25 JUN 1991

Dear Sir,

In response to your letter seeking to have the flood routing model examine an option of a flood outlet plus connecting channel, plus dredging without a levee at South Golden Beach, and also with a reduction in the rock wall, I felt that I should respond formally to you as to the results of that investigation.

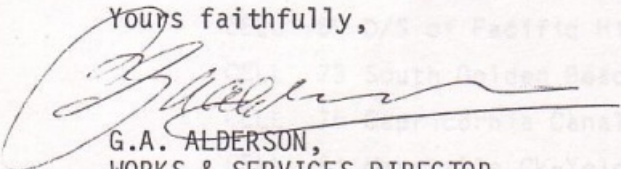
As you would be aware it was discussed at the Flood Plain Management Committee meeting held on the 19th June, 1991. The results are as per the attached sheet prepared by Webb McKeown & Associates. As you will notice the reduction to the 1% flood at South Golden Beach Cell 73, is 195mm and at Cell 57 South Ocean Shores Golf Course, 209mm. It is also worth noticing that the reduction on the Mothers Day flood of 1987 is 259mm at Golden Beach and 354mm at Cell 57 South Ocean Shores.

It is clear that the connection to the outlet makes a significant difference, as you would no doubt notice from these figures, plus the dredging of the creek to 2.5 metres. As you would recall, the outlet on its own did not make anywhere near the difference given all other conditions existing.

I am also advised by the Consultants that there would be a small change as a result of lowering the training walls at the entrance to the river, but as discussed at the Flood Plain Management Committee, this option will be run as requested in your letter, and we will then all have that information.

Thank you for attending the Flood Plain Management Committee meeting.

Yours faithfully,


G.A. ALDERSON,
WORKS & SERVICES DIRECTOR.

EXECUTIVE SUMMARY BRUNDIK VALLEY FLOOD STUDY

1% 2% 5% 1987

OPTION H

a) Proposed Development + Bond Corporation to carry out further Development in North Queensland

b) The need to determine - Floodway d/s Highway
constructed by the Bond Corporation - Dredging to -2.5m
Flood at various locations - worthwhile/necessary

CELL 74 Billinudgel Indust. Est.	-11	-8	-13	30
CELL 69 D/S of Pacific Highway	-84	-88	-71	-131
CELL 73 South Golden Beach			FLOOD FREE	
CELL 76 Capricornia Canal	-132	-108	-35	-118
CELL 61 Marshalls Ck-Yelgun Ck	-115	-99	-16	-97
CELL 57 Sth Ocean Sh Golf Course	-143	-160	-111	-261
CELL 55 New Brighton	-136	-168	-132	-285
CELL 54 D/s of Orana Bridge	25	31	32	-170

OPTION I

Existing Conditions + Dredging to -2.5m

CELL 74 Billinudgel Indust. Est.	-8	-8	-12	-15	6	+6
CELL 69 D/S of Pacific Highway	-6	-6	-13	-22	-17	-17
CELL 73 South Golden Beach	-89	-195	-111	-273	-161	-259
CELL 76 Capricornia Canal	-85	-197	-107	-75	-144	-217
CELL 61 Marshalls Ck-Yelgun Ck	-112	-163	-148	-148	-193	-216
CELL 57 Sth Ocean Sh Golf Course	-156	-209	-205	-233	-322	-354
CELL 55 New Brighton	-169	-203	-220	-218	-347	-376
CELL 54 D/s of Orana Bridge	20	20	27	28	-221	-228

Plus Eroding Entrance plus connecting channel.

OPTION J

Existing Conditions + Entrance Training Walls Lowered

CELL 74 Billinudgel Indust. Est.	-1				0
CELL 69 D/S of Pacific Highway	0				0
CELL 73 South Golden Beach	-7				20
CELL 76 Capricornia Canal	-6				15
CELL 61 Marshalls Ck-Yelgun Ck	-7				15
CELL 57 Sth Ocean Sh Golf Course	-10				13
CELL 55 New Brighton	-14				13
CELL 54 D/s of Orana Bridge	34				-15

Provision was made in the model for further options (should they be required to be examined at a later date)

Various requests during the study for investigating additional survey requests by the Steering Committee to investigate further options has led to considerable lengthening of the study time from that originally proposed. There has to date been in excess of 100 computer runs carried out on this project. The assessment of options not involving the Bond Corporation's land have also been carried out (including Bond's proposal).