

Report 99.462

12 August 1999

File: N/90/6/1

Report to the Landcare Committee
from Graeme Campbell, Project Manager, Flood Protection (Strategy and Assets)

October 1998 Flood Damage Repair : Progress Report

1. Purpose

To update the Landcare Committee on progress of the October 1998 flood damage repair and improvement works, last reported to the 8 June 1999 Landcare Committee (Report 99.270), and to report on expenditure to year-end, 30 June 1999.

2. Clarification

Following the October 1998 floods the flood damage works, as approved by Council, were separated into two categories:

- The first category covers repairs to the system which do not substantially change the level of protection. They are funded from operating expenditure or reserve funds and are termed "Flood Damage Repairs".
- The second category includes work which cannot sensibly be repaired without a substantial improvement component. These works are funded from capital expenditure and are termed "Capital Improvements".

3. Flood Damage Repairs

The flood damage repair works are generally on programme and are estimated to be approximately 70 percent complete. All of the work considered most urgent has been completed. A detailed list of the works completed in the 1998/99 financial year is contained in **Attachment 1**.

No in-stream works are being undertaken at present primarily because of the trout-spawning season. Work is programmed to recommence at the beginning of October 1999. Attachment 2 contains a schedule of the flood damage repairs to be completed in the 1999/2000 year, mostly on the Hutt River.

Progress on the major rivers since last reported is detailed below.

Hutt River

The design for the bank edge protection at **Manor Park Golf Course** has been completed and was presented to the golf club on 21 July. The club is in general agreement with the proposal although some further work is required before the funding agreement can be finalised. Issues that still need finalising relate to maintenance standards and access. Preparation of the resource consent application is underway.

The consultant's report and proposal for repairs at **Bridge Road** was received in late July. Meetings will now be arranged to discuss the report with affected residents.

The design and estimate for the work at **Owen Street** has been received and is under review. It is felt that a repair, more substantive than the original toe rock lining, will provide the most economic solution. The revised option will comprise rock groynes, which are a recommendation from the Hutt River Floodplain Management Plan investigations. There will be increased costs due to the greater quantities of rock required for the construction of groynes. The over-expenditure on this job will be managed within the overall project by making economies in the remaining flood damage repair jobs.

Kapiti

All repair work on the **Waikanae River** has been completed.

The **Cross-section Survey** and analysis has been completed and a draft report prepared. This confirms the observed trend of degradation (or bed lowering) above Jim Cooke Park and aggradation (bed build-up) below that location, although the changes to mean bed levels have not been as significant as expected. Therefore, a review of the gravel extraction policy will now be undertaken. A move towards some extraction of gravel in the lower reaches of the Waikanae River is likely in the medium term.

No substantial repair work was carried out in the Otaki River since the last report. The high priority flood damage works have been completed and Operations staff have been focusing on completing of the Upper Rahui bank edge protections and procuring of materials for the Capital Improvement works.

4. Capital Improvements

Hutt River

No further progress has been made on the proposed land purchase adjacent to the Boulcott Stopbank, as we are still awaiting the valuer's report, expected within three weeks.

Waikanae River

Consultants have been appointed to the **State Highway 1 to Maple Lane** project and design work has begun. Three design options were prepared for the reach and the consultants are now undertaking more detailed work on a preferred option.

A revised programme for the project was prepared, as part of the consultant appointment process, and a summary is contained in **Attachment 2**. The programme shows a construction start by 17 November 1999 and the works substantially complete by March 2000. Planting and environmental enhancement work is programmed to be complete by June 2000.

A meeting was held with the directly affected landowners, on 8 July 1999, to advise them of the new programme. The information was well received and the programme accepted.

A contract to purchase the Dricon site has been signed with Winstones Aggregates Ltd and settlement is set for 17 August 1999. The agreement is within the budget sum reported to the 8 July Landcare meeting.

The raising of Mr J Hand's house at 13 Toroa Road, Otaihanga, is now complete and the necessary certification received from the Kapiti Coast District Council (KCDC). However, payment of the grant is still awaiting confirmation from the lawyers that the memorandum of encumbrance has been registered on the title. This may take until 27 August 1999 to complete. The Samuels, the third house eligible to receive Council support to raise their house, have again been contacted. They have confirmed that they will not be taking up the Council's offer of assistance through this project. They will be retained on the list of houses still to be raised, for consideration through the Council's 2000/2010 Long-term Financial Strategy for implementing the Waikanae Floodplain Management Plan; circumstances may also have changed by the time any raising work is undertaken.

Otaki River

Delivery of 1,800 tonnes of rock rip-rap for the **Gas Crossing** bank edge protections site is now complete. The rock had been prepared at the quarry for delivery to Otaki in June, however KCDC asked if it could be supplied to them for urgent coastal repair works. This was agreed to and delivery to the WRC was subsequently completed in July 1999. Cross-blading work at **Tracy's**, opposite the **Stresscrete** site, has been completed and materials for the debris fences delivered to site.

A brief has been prepared and proposals will be requested from consultants for the design and supervision of the Mangahanene Island and Stresscrete jobs. The requests for proposals were delayed while the Flood Protection Group considered whether it would manage the work in-house; a decision was made not to do so. Proposals will be sought from the two unsuccessful tenderers for the State Highway 1 to Maple Lane work.

5. Financial

Generally the project is proceeding to plan and no substantial financial issues have arisen. Expenditure to date is summarised as follows:

	Total Approved Budget	Expenditure to 30 June 1999	Forecast to Complete Works by June 2000	Total	Variance
Flood Damage Repairs	\$1,756,747	\$1,195,360	\$641,005	\$1,836,365	\$79,618
Capital Improvements	\$2,975,000	\$105,110	\$2,811,420	\$2,916,530	(\$58,470)
Total	\$4,731,747	\$1,300,470	\$3,452,425	\$4,752,895	\$21,148

Notes:

- The current forecast for the project is \$21,148 unfavourable. This is made up of a forecast over-expenditure in the Flood Damage repairs of \$79,618 and an under expenditure in the Capital Improvement works of \$58,470.
- The current forecast over expenditure in the Flood Damage Repair is due to:
 - an increase in the cost estimate for the Owen Street works from \$105,000 to \$215,000.
 - the \$38,000 paid to KCDC as a share of the costs of the emergency works at Sunny Glen was not budgeted in the flood damage estimates.
- The forecast expenditure on the Capital improvement works is under budget because the Samuel's property will not be raised. It is anticipated other savings will be made.
- No additional budget is requested to complete the flood damage repairs as the additional expenditure currently can be compensated by under-expenditure in other areas. This assumption will be confirmed once more accurate designs and estimates for the remaining works have been completed.

6. Communication Opportunities

All individuals directly affected by the works are being kept up to date with progress and are involved in the finalisation of the design details. Press releases will be prepared as the key milestones in the project are achieved.

7. Recommendations

That the Landcare Committee:

- (1) Receive this report and note its contents.*
- (2) Support the increase in expenditure, from \$105,000 to \$215,000, to construct more permanent rock groynes at Owen Street. The revised work is consistent with recommendations from the Hutt River Floodplain Management Plan investigations. Increased costs will be accommodated from within the existing flood damage repair and maintenance budgets.*

Report prepared by:

GRAEME CAMPBELL
Project Co-ordinator

Approved for submission:

GEOFF DICK
Manager, Flood Protection (Operations)

BRENDAN PAUL
Manager, Flood Protection (Strategy and Assets)

PAUL TRYON
Divisional Accountant, Landcare

ANDREW ANNAKIN
Divisional Manager, Landcare

GREG SCHOLLUM
Chief Financial Officer

Attachment 1 : Flood Damage Repair Works Completed 1998/99

Attachment 2 : Flood Damage Repair Works 1999/2000

Attachment 3 : Revised State Highway 1 to Maple Lane Programme

Attachment 3 : Revised State Highway 1 to Maple Lane Programme

**State Highway 1 – Maple Lane
Flood Damage Repairs : Waikanae River**

What has to be done and by when?

Survey and site investigations	12 July
Design river works and environmental enhancement	20 July
Draft resource consent application	1 August
Seek written approvals from affected parties	Required by mid September
Consent granted *	1 November
Award contract	2 November
Start construction	Mid November
Complete river works	Mid February 2000
Complete environmental enhancement	30 May 2000
Complete project	30 June 2000

* We are assuming that the resource consents will be granted by 1 November in this programme, although this is dependent upon the resource consent process and is beyond our control.

Attachment 1 : Flood Damage Repair Works Completed

Flood damage repairs completed in the 1998/99 financial year

Name	Description	Cost
Hutt River		
Elbow Park	Berm reinstatement	\$97,000
Whakatiki Rock Line	Repair berm and construct rock line	\$63,000
Wellington Golf Club	Install new rock line	\$76,000
Manor Park Golf Club	Cross-blade to protect bank until new works are constructed	\$56,000
Stokes Valley Training Wall	Extend rock line	\$35,000
Mary Huse Grove	Repair berm and stopbank	\$53,000
Owen Street	Cross-blading and Groynes to protect berm until new works are constructed	\$37,000
Boulcott Stopbank	Repair existing stopbank	\$125,000
Black Creek	Repair rock line	\$20,000
Other Works	Numerous repair works along the river	\$122,000
	Sub Total	\$684,000
Otaki River		
Lower Taylor	Construct debris fences and barbs	\$65,000
Lower Hughes	Cross-blading and repair access track	\$16,000
Upper Hughes	Cross-blading and debris fences	\$47,000
Barrets	Rebuild debris fences	\$23,000
Tracys	Cross-blading in preparation for debris fences	\$46,000
Stresscrete	Re construct stopbank and berms	\$72,000
Chrystalls	Extend rock line	\$42,000
Other Works	Numerous repair works along the river	\$11,000
	Sub Total	\$322,000
Waitohu Stream	Sub Total	\$17,000
Waikanae River		
Sunny Glen	Cross-blading and temporary repair	\$96,000
Maple Lane	Cross-blading and temporary repair	\$33,000
Nimo Avenue	Cross-blading and willow repairs	\$4,000
Jim Cooke Park	Cross-blading	\$9,000
Other Works	Numerous repair works along the river	\$8,000
Cross-section Survey		\$22,000
	Sub Total	\$172,000
	GRAND TOTAL	\$1,195,000

Attachment 2 : Flood Damage Repair Works 1999/2000

Flood damage repairs to be completed in the 1999/2000 financial year

Name	Description	Cost
Hutt River		
Bridge Road	Toe protection works	\$40,000
Memorial Park	New rock line	\$80,600
Manor Park Golf Club	Construct new bank protection	\$125,000
Owen Street	Construct three rock groynes and willow planting to protect berm.	\$202,000
Avalon berms	Debris fences and willows	\$75,000
	Sub Total	\$522,600
Otaki River		
Pottingers/Empsons	Channel alignment	\$30,000
Chrystalls	Reconstruct permeable groynes	\$40,000
Below State Highway 1	Bank edge repairs	\$25,000
Other Works		\$15,400
	Sub Total	\$110,400
Waikanae River		
	Sub Total	\$0
Waitohu Stream		
Miscellaneous Work		\$8,000
	Sub Total	\$8,000
	GRAND TOTAL	\$641,000