

LOWER WAIRARAPA VALLEY DEVELOPMENT SCHEME

REVISED SCHEDULE OF FLOOD DAMAGE – FEBRUARY 2004

| Site | Damage | Repair Work | Cost (\$) | Priority |
|--|--|---|------------|----------|
| TAUHERENIKAU RIVER | | | | |
| Tauherenikau – Upstream of Rail Bridge at Kelly | Course change threatening previous work | Channel realignment & shifting of gravel | 9,000 | High |
| Tauherenikau – Rail Bridge to SH2 - Barton | Bank erosion & threatening previous work | Channel realignment & shifting of gravel | 6,000 | High |
| Tauherenikau – Rail Bridge to SH2 - Willis | Bank erosion & threatening course change over property | Channel realignment & shifting of gravel | 12,000 | High |
| Tauherenikau – Rail Bridge to SH2 - Blair Stout & Barlow | Bank erosion & channel out of alignment. Threatening previous work | Realignment of river channel and shifting gravel to the bank | 15,000 | High |
| Tauherenikau – Rail Bridge to SH2 - Logue | Bank erosion & threatening access tract | Realignment of river channel and shifting gravel to the bank | 6,000 | High |
| Tauherenikau – Rail Bridge to SH2 – SH2 Northern Abutment Transit responsibility | Bank erosion & threatening SH2 Bridge abutment. | Rock groynes & realignment of river channel and shifting gravel to the bank | Transit NZ | High |
| Tauherenikau – SH2 to SH53 Bridge – Race course | Bank erosion & threat of channel misalignment | Realignment of river channel and shifting gravel to the bank | 6,000 | Medium |
| Tauherenikau – SH2 to SH53 Bridge – Upper Donalds | Bank & vegetation erosion | Realignment of river channel and shifting gravel to the bank | 7,000 | High |
| Tauherenikau – SH2 to SH53 Bridge – Donalds cuff crossing | Bank & vegetation erosion | Realignment of river channel and shifting gravel to the bank | 5,000 | High |
| Tauherenikau – SH2 to SH53 Bridge – Buchanan Yard | Bank & vegetation erosion & threat to opposite bank | Realignment of river channel and shifting gravel to the bank | 7,000 | High |
| Tauherenikau – Below SH53 Bridge – Burt Hayshed | Bank erosion & threat to previous bank protection work | Realignment of river channel and shifting of gravel | 3,500 | High |

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| Tauherenikau – Burt | Bank erosion - river now at the base of the stopbank. Significant course change threat. | Realignment of river channel, shifting gravel & rock groynes. The scope of work increased from earlier estimate due to subsequent floods | Additional funds over earlier estimate 32,000 | High |
| Tauherenikau – Gillet | Bank overtop & damage | Repairs to stopbank, including benching and top up | 25,000 | High |
| Tauherenikau – Vollebregt | Bank overtop & damage | Repairs to stopbank, including benching and top up | 38,000 | High |
| | | Sub-Total | 171,500 | |
| RUAMAHANGA RIVER | | | | |
| Ruamahanga River – Hugh Shelton | Erosion of bank & damage to bank protection work, & threat of course change | Heavy rock groynes & channel realignment | 150,000 | High |
| Ruamahanga River – Richard Osborn | Erosion of bank behind the stopbank | Rock boulders to prevent damage to stopbank | 21,000 | High |
| Ruamahanga River – Tim wall | Erosion of bank behind the stopbank | Rock boulders to prevent damage to stopbank | 18,000 | High |
| Ruamahanga River – John Barton | Erosion of bank behind the concrete wall | Rock boulders to prevent further erosion & undermining of concrete wall | 53,000 | High |
| Ruamahanga River – Dick Scadden | Erosion of bank behind the concrete wall | Rock boulders to prevent further erosion & undermining of concrete wall | 20,000 | High |
| Ruamahanga River – Hikunui Sill | Erosion of the sill at several places & bank slumping | Repairs to sill erosion & rock boulders for the slumped area | 18,000 | High |
| Ruamahanga River – Leo Vollebregt | Bank overtop & erosion | Re-align stopbank and Hikunui sill at the southern end | Long term solution – to be included with the Review | Medium |
| Ruamahanga River – Old Dairy Factory at Pukio | Bank slumping at several locations | Rock boulders for the slumped area – 4 large rock groynes | 60,000 | High |
| Ruamahanga River – Butchers d/stream of previous work | Bank slumping at several locations | Gravel rejects at 6 locations | 51,000 | High |
| Ruamahanga River – Awaroa Sill | Bank slumping | Repairs to slumped area | 4,000 | High |
| | | Sub-Total | 395,000 | |

| EASTERN & WESTERN TRIBUTARIES | | | | |
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| Haungarua – Ashton Herrick | Stopbank erosion | Repairs to stopbank damage | 4,000 | High |
| Waihora | Damage to bank | 4 Willow clumps | 8,000 | Medium |
| Taunui | Scattered debris along river bed | Removal of debris | 6,000 | Medium |
| Turanganui – Richard Warren | Stopbank erosion at two places | Repairs to the stopbank | 10,000 | High |
| Turanganui – Holmes Warren | Stopbank erosion at two places | Repairs to the stopbank | 15,000 | High |
| Wairongamai - Upstream of Western lake road. 50% from SWDC - Approved | Bank erosion & threat to Western Lake Road | Shifting of gravel & placing Rock groynes | 40,000 | High |
| Wairongamai - Matthews | Bank erosion & threat of course change | Shifting of gravel & placing of concrete blocks | 13,000 | High |
| Wairongamai - Upstream of Western lake road. | Debris along the river | Removal of debris | 6,000 | Medium |
| Burling Stream - Matthew | Bank erosion & channel out of alignment | Placement of rock to protect bank & channel alignment | 10,000 | High |
| Abbotts Creek – Old dumpyard area. 50% from SWDC- Approved | Bank erosion & threat of course change | Channel realignment & repairs to rock groynes | 5,000 | High |
| Lake Wairarapa – Karl Waiker | Bank erosion and threat to stopbank | Place gravel rejects | 15,000 | High |
| | | Sub-Total | 132,000 | |

EMERGENCY FLOOD DAMAGE ALREADY APPROVED

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| Tauherenikau – Burt | Bank erosion - river now at the base of the stopbank. Significant course change threat. | Realignment of river channel, shifting gravel & rock groynes. | 65,000 | High |
| Tauherenikau – Emergency work at Gillet | Bank overtop & damage | Sand bagging & repairing damaged bank temporarily | 5,000 | High |
| Haungarua – Ashton Herricks | Stopbank breached. Increased flood damage threat to houses already flooded | Temporary reinstatement of stopbank | 1,500 | High |
| | | Sub-Total | 71,500 | |
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| | | GRAND TOTAL | 770,000 | |

SUMMARY

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| Total flood damage cost | \$ 770,000 |
| Savings from re-scheduled programme | \$ 43,000 |
| Therefore net flood damage cost | \$ 727,000 |
| Expected contribution from SWDC | \$ 22,500 |
| Contribution from the Scheme Reserve Fund | \$ 341,000 |
| Contribution from Flood Damage Contingency Fund | \$ 363,500 |