

LOWER WAIRARAPA VALLEY DEVELOPMENT SCHEME

ASSET MANAGEMENT PLAN

PERFORMANCE STATEMENT

2007/08

1. Financial

- Deferred asset maintenance requirements not to exceed \$100,000 in any year.

The deferred maintenance is under the required limit.

Criteria satisfied

- Scheme not to incur or carry financial deficit without Council approval. *The scheme reserve balance is \$1,098,694 and the Major Flood Recovery Fund balance is \$563,679.*

Criteria satisfied

- Average flood damage expenditure not to exceed 20% of the total Scheme expenditure over a five year period.

Total Scheme expenditure over the last 5 years - \$7,914,167

Total flood damage expenditure over the same period - \$3,208,000 (40.5%)

Major flood events occurred in 2003/04, 2004/05 and 2006/07 resulting in considerable flood damage. This is an exceptionally wet period, and not considered normal.

5 Yearly Criteria not satisfied

2. Stopbanks

- Flood capacity of major stopbanks to be reviewed and compared to design flood capacity.

The stopbanks between Waihenga Bridge and Tuhitarata Bridge has been designed to carry 1,500 cumecs with an average free board of about 600mm. The recent flood events indicate that the system still has this capacity. The MIKE II model developed as part of the LWVDS Review also indicate that the system still has the capacity to carry 1,500 cumecs.

5 Yearly Criteria satisfied

- 0% (<5%) of the stopbank length has deferred maintenance.

Criteria satisfied

- Not more than 10% of the stopbanks to have berm width of less than 10 metres.

either protected by boulder groynes or by stopbank set back. In other areas where the risk is low, the banks will be protected primarily by vegetation, and if it becomes necessary, by boulders. There are no plans to increase the berm width.

Criteria satisfied

- As-built stopbank formation levels and dimensions to be restored within 3 months of minor surface damage being reported, and within 1 month of major surface damage being reported. Grass cover to be restored within 3 months of bare patches being reported. Rabbit hole and subsidence damage to be repaired within 1 month of being reported. Trees and scrub on the stopbank to be removed within 3 months of being reported.
Few locations of the stopbank damaged by stock remain to be repaired by the landowners.

Criteria partially satisfied

3. Heavy bank Protection

- Repairs to damaged heavy bank protection structures to be carried out within the same financial year.
There were no damages to heavy bank protection structures.

Criteria satisfied

4. Vegetation Buffer Zone

- Less than 10% of the length of riverbanks was subject to active bank erosion.
No erosion to vegetation buffer zone.

Criteria satisfied

- No more than 5% of the designated buffer zone area to be lost to river erosion.
*Total area of the buffer zone five years ago – 353.25ha.
Total area now – 372.2ha.*

5 Yearly Criteria satisfied

- Stock exclusion fencing to be maintained in satisfactory condition, and landowners to be prevented from grazing buffer zone areas.
Stock exclusion fences maintained satisfactorily.

Criteria satisfied

5. Fences

- 1.0 km (<2km) of boundary fence was renewed.
Funds diverted to other urgent work. Not critical criteria.

Criteria partly satisfied

6. Floodway Sills

- As-built sill formation level to be compared to design level.
The split between the river and the floodway at Hikunui sill was found to be perfect during the February 2004 & July 2006 major flood events.

Awaroa sill used to operate at a river level 300mm lower than at Hikunui. Since this was creating nuisance flooding of low lying area with no advantage to river system, the Awaroa sill was raised by 300mm, so that both Hikunui and Awaroa will operate at the same level

5 Yearly Criteria satisfied

- Deferred maintenance requirement to be nil.
No deferred maintenance work.

Criteria satisfied

- As-built sill formation level to be restored within 1 month of damage being reported. Grass cover to be restored within 1 month of bare patches being reported. Rabbit hole and subsidence damage to be repaired within 1 month of being reported. Trees and scrub on the sill to be removed within 3 months of being reported. Scouring upstream and downstream of the sill to be repaired within one month of being reported.

Both sills at Hikunui & Awaroa have been upgraded and all repairs carried out.

Criteria satisfied

7. Duckbill Structure

- The “Duckbill” structure to be inspected every six months, and after each major flood, and damage to the mattresses and baskets to be repaired within 3 months.

There were no flood events during the year under review and there are no outstanding maintenance issues.

Criteria satisfied

- Damaged reinforced grass to be repaired within 1 month of bare patches being reported.

Criteria satisfied

- Deferred maintenance to be nil.

Criteria satisfied

- The Reno mattresses to be kept free of vegetation, and the grass on the batter slopes and berm to be mowed regularly and maintained in a healthy state.

Regular spraying carried out to keep the Reno mattresses free of vegetation and mowing of grass being done regularly.

Criteria satisfied

8. Culverts and Floodgates

- All floodgates and culverts to be inspected annually for diameters greater than 600 mm, and once every three years for diameters less than 600 mm.

All floodgates inspected

Criteria satisfied

- Floodgate damage and culvert blockages to be repaired within 1 month, and external reports of damage to be responded to within 10 working days.

Some critical culverts were cleaned & repaired, however 11 culverts/floodgates still need cleaning & repairs, and have been scheduled for next year.

Criteria partially satisfied

- A structural assessment of large floodgate structures to be undertaken, including visual inspection of the culvert interior.

Visual inspection carried out. Since there were no apparent structural defects, a detailed structural assessment was not carried out.

5 Yearly Criteria partially satisfied

9. Grade Control Structures

- Deferred maintenance requirement to be nil.

No deferred maintenance.

Criteria satisfied

- Rail and timber grade control structures to be inspected annually and damages to be repaired within 3 months.

No deferred maintenance. Some redundant rails to be removed during summer.

Criteria satisfied

- Reinforced concrete grade control structures to be inspected five yearly and damages to be repaired within 3 months.

Visual inspection carried out. Since there were no apparent structural defects, a detailed structural assessment was not carried out.

5 Yearly Criteria partially satisfied

10. Barrage Radial Gates

- Control House Telemetry to be inspected six monthly with repairs effected within 1 month.

Inspections and maintenance were carried out by Hydrology Section.

Criteria satisfied

- The lifting/lowering mechanism to be inspected six monthly with repairs to be effected within 1 month.

Lifting gear was inspected and found working satisfactorily. The ropes were visually inspected and found to be in good condition.

Criteria satisfied

- General inspection of the Barrage, control joints, and abutments to be carried out annually with maintenance scheduled for the following year.

No repairs required

Criteria satisfied

- Radial Gates to be inspected five yearly and any painting requirements to be scheduled for the following year.

The gates were painted in 2004 & 2005. No painting required at this stage.

5 Yearly Criteria satisfied

- The channel to be inspected for any blockages after major flood events, and the maintenance requirements to be scheduled for the following year.

No channel blockages.

Criteria satisfied

- The structure to be thoroughly examined for any earthquake damage.

No major earthquakes.

Criteria satisfied

11. Environment

- River management practices to conform to Regional Freshwater Plan, Regional Soil Plan, and Scheme Resource Consent conditions.

All work carried out according to the LWVDS Global Resource Consent. No incidents reported.

Criteria satisfied

12. Consultative

- Annual reports, Scheme financial statements, and works programmes to be adopted at Advisory Committee meetings.

Criteria satisfied

- Ratepayer satisfaction to be gauged at Ward meetings.

Ward meetings have been suspended due to the Scheme Review. These meetings will be re-commenced in February 2009.

Criteria not satisfied

- Annual rates, annual reports, and Scheme reviews to be approved by the Council.

Scheme Review, Annual rates & Reports have been approved by council.

Criteria satisfied

- Consultation with the Department of Conservation, Wellington Fish and Game Council, and Tangata Whenua to be undertaken consistent with Scheme Resource Consent requirements.

Criteria satisfied

13. Overall

- Council endorsement of Scheme management approach to be obtained in scheme reviews.

Scheme review was completed and endorsed by the council.

Criteria satisfied

- Scheme maintenance standards to be endorsed as part of the annual peer review process for Wairarapa river management practices.

The peer review for the year 2007/08 was carried out and endorsed by River Engineers from Horizons Regional Council.

Criteria satisfied

SCHEDULE OF SUPPORTING DOCUMENTATION

Minutes of Advisory & Review Committee Meetings.

Annual scheme reports & financial statements.

Completed and proposed works programmes

Updated Asset Register

Log of inspections, repair requirements, and remedial works.

Peer Review Report.

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Date: