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Committee Environmental Wellbeing Committee
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Planning

Confirmation of Flood Protection Asset Condition for 2011/12 and Proposed Work Programme 2012/13

1. Purpose

To seek Committee confirmation of:

- Flood Protection maintenance activities on the 15 river schemes, and that the 15 river schemes have been maintained to the committee's satisfaction as at 30 June 2012.
- The recommendations and resolutions of the Wairarapa River Management Scheme Advisory Committee meetings held during March – May 2012, and the associated scheme performance measures.

To advise the Committee of:

- The 30 June 2012 Flood Protection Asset Revaluation.
- The ongoing development of the Flood Protection Asset Management system.

2. The decision-making process and significance

The matters requiring decision in this report have been considered by officers against the requirements of Part 6 of the Local Government Act 2002.

2.1 Significance of the decision

Officers have considered the significance of the matter, taking the Council's significance policy and decision-making guidelines into account. Officers recommend that the matter be considered to have low significance.

Officers do not consider that a formal record outlining consideration of the decision-making process is required in this instance.

3. River Scheme Activities

All programmed maintenance activities were completed during the year. There was one significant flood event in the upper Wairarapa Valley rivers, in March 2012, which had return periods ranging from 5 to 10 years. The relatively small amount of damage caused by this event has been repaired using maintenance budgets. The Western area did not experience any significant flooding events.

A summary of the river works completed by the eastern and western areas, the Wairarapa River Scheme Committee performance statements, proposed works programmes and resolutions are detailed in **Attachment 1** of this report. The Wairarapa River Advisory Committees confirmed that the assets have been maintained to their satisfaction, and supported the rate increases and works programmes for 2012/13. Performance measures were generally met, albeit with some minor non compliances which are planned for completion over the next year. Regional funding requirements to match the local contribution increases have been allowed for in the 2012/13 Annual Plan.

4. Condition Rating

The monitoring and condition rating assessment of Flood Protection assets over the past financial year provides reassurance to Council that the various assets are being managed appropriately, maintained to the desired standard, will perform when needed and, where necessary, are being enhanced by a works programme. The assessment confirmed that there are no significant or critical assets requiring immediate maintenance.

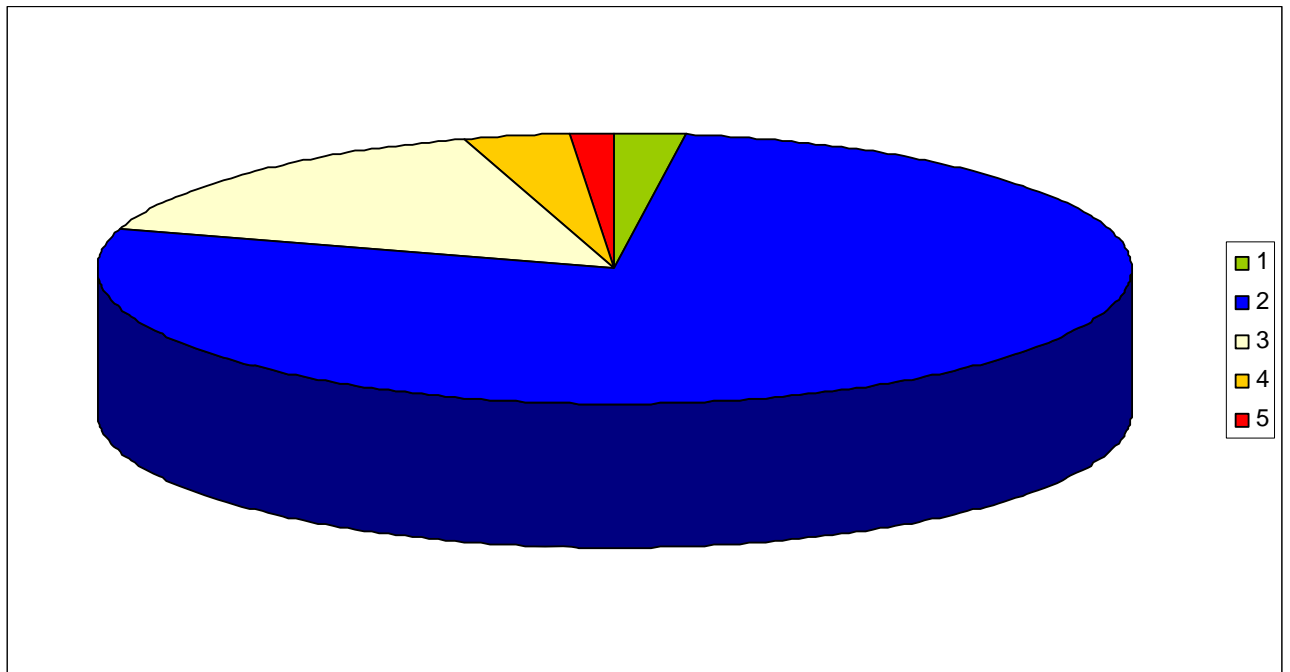
The condition rating assessment recording and reporting from the SAP Plant Maintenance System has improved over the last year. A breakdown of the assets and condition ratings are detailed in **Figure 1**.

The condition rating is applied to each asset and graded from 1 to 5, where: 1 is very good condition requiring no maintenance to 5 rating, denoting the asset requires upgrade, replacement or written off.

A summary of the condition ratings detailed that:

- **95.3% of assets achieved a 3 or above standard**, where no or moderate maintenance is required.
- **3.3% achieved a rating of 4**, and are programmed for future work as appropriate. The majority of these assets are willow buffers, debris fences and rock groyne maintenance. The three sections of stopbank with a condition rating of 4 have been identified in works programmes for improvement. They include the Boulcott stopbank where works are underway and the Waikanae River Jim Cook Park project scheduled to commence in 2013/14.
- **1.4% achieved a rating of 5**. These assets are programmed for future work, or will be written off, as they are no longer required. The majority of these assets are willows, rocks groynes and debris fences. There are no critical assets within this category.

Figure 1. Summary of asset condition ratings 2011/12



Equipment Type	Condition Rating Asset 2011/12					Grand Total
	1 Very Good	2 Good	3 Moderate	4 Poor	5 Very Poor	
Barrage Gate		1	1			2
Blockline		26		3		29
Bridge	1	2				3
Culvert	1	26				27
Debris Arrestor		3				3
Debris Fence	4	310	106	30	1	451
Demolition Line		4			6	10
Detention Dam		1	1			2
Ducksbill Structure		2				2
Fascine		2				2
Fence		21	5			26
Fence Rail Iron Net			15	2	2	19
Floodgate	1	108	15	5	3	132
Floodwall		18				18
Floodway Sill		2				2
Groyne	25	764	120	27	6	942
Riprap	26	219	14			259
Stopbank	28	738	73	3		842
Track	6	425	9	8		448
Training Bank		10	2			12
Weir		12	4			16
Willow	9	677	327	54	37	1104
Wingwall		5				5
Drop Structure		1				1
Diversion Cut		1				1
Total	101	3378	692	132	55	4358
% of Assets with that rating	2.1	77.7	15.5	3.3	1.4	

5. Environmental enhancement and consents

In November 2011 a variation was granted to the existing river management resource consents for the Waipoua, Waiohine, Waingawa and all three Upper Ruamahanga river schemes. This variation allowed for increased quantities of in-stream work. This was necessary so that the Flood Protection Department can achieve the maintenance objectives of the river management schemes proactively and to provide for the necessary works following flood events.

In the *Wairarapa River Management Agreement*, Flood Protection committed that, as part of its annual Asset Maintenance reporting to the Environmental Wellbeing Committee, it will include:

- Monitoring results and research undertaken including any outcomes.
- A summary of actions undertaken to meet cultural, habitat and recreational objectives in the relevant financial year.
- Comment on the status of, and progress with, existing scheme recreational and aquatic habitat objectives.

The summary of the work completed over the last year is contained in **Attachment 2** of this report.

6. Asset Revaluation

The revaluation for Flood Protection has been completed and confirms that the asset values, effective as of 30 June 2012, is approximately \$287 million and comprises of the following:

• Flood Protection Infrastructure assets	\$263.0 million
• Land	\$18.5 million
• Buildings	\$5.0 million
• Plant, depot chattels and machinery	\$0.5 million
Total	\$287.0 million

For the river infrastructure assets, this is an increase of \$73.6 million from the 2007 valuation. Of the \$73.6 million, the following are items of significance change from the previous valuation:

- New stopbanks \$3.3 million increase.
- Waiwhetu channel, new asset \$5.8 million.
- Stopbanks Wairarapa \$43.9 million increase, attributed to improved data integrity and recalculations of volumes. A separate review project to calculate and verify the data was completed.

- Barrage gates \$10.3 million increase, attributed to asset revaluation and addition of cost associated with re-instatement of the channel, following major structural damage.

The revaluation was reviewed by an independent expert as well as Audit NZ and complies with accepted accounting standards.

7. Scheme Reserves

Scheme reserves have been established to enable repairs to be made following flood damage. The Scheme Reserves are utilised for floods in a 5 to 25 year return period and the Major Flood Investment Reserve caters for flood events greater than a 25 year return period. The total scheme reserves are \$10.4 million, as at 30 June 2012. A summary of the individual scheme reserves follows:

Scheme	Scheme Reserve	Major Flood Investment Reserves	Total Reserves
Lower Valley	\$1,788,185	\$905,169	\$2,693,354
Waiohine	\$531,320	\$29,856	\$561,176
Mount Bruce	\$75,357	\$6,768	\$82,125
Te Ore Ore	\$171,720	\$6,768	\$178,488
Gladstone	\$67,617	\$6,768	\$74,385
Waingawa	\$85,162	\$19,904	\$105,066
Waipoua	\$67,580	\$19,904	\$87,484
Kopuaranga	-\$46,054	\$0	-\$46,054
Upper Mangatarere	\$27,049	\$0	\$27,049
Taueru	\$10,284	\$0	\$10,284
Whangaehu	\$10,481	\$0	\$10,481
Total Eastern Schemes	\$2,788,701	\$995,137	\$3,783,838
Western Rivers	\$2,157,906	\$995,216	\$3,153,122
Drainage Schemes	\$210,875		\$210,875
GW Flood Contingency Reserve	\$1,271,082		\$1,271,082
GW Major Flood Investment		\$1,990,432	\$1,990,432
Total Flood Protection	\$6,428,564	\$3,980,785	\$10,409,349

A project to confirm the appropriate level of flood protection reserves is currently being scoped.

8. Asset Management System

Flood Protection staff have been involved with a review of the Council's Asset Management Systems, as part of the organisational wide initiative led by the GW Asset Management Development Group. An asset management maturity assessment has been completed and this identified a number of gaps in documentation and systems across the organisation.

An improvement plan has been drafted with priorities for the next 3 years. This will be developed further to determine resourcing and funding requirements for the key improvement activities.

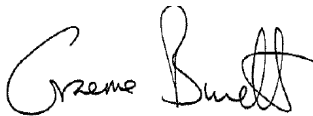
A review of the integration of the SAP asset management plant maintenance module into Flood Protection business processes has also been undertaken. This identified a requirement to restructure the asset data base. This work has been completed and was fundamental to the asset revaluation process and the ability to report on asset condition ratings.

9. Recommendations

That the Committee:

1. ***Receives*** the report.
2. ***Notes*** the content of the report
3. ***Endorses*** the recommendations of the various Wairarapa River Management Scheme Advisory Committees that:
 - (i) *The Scheme Annual Reports and Financial Statements be accepted*
 - (ii) *The proposed 2012/13 works programmes be approved.*
 - (iii) *The Scheme rates for the year 2012/13 be approved.*
4. ***Confirms*** that the 15 River Management Schemes in the region have been maintained to the satisfaction of Council.
5. ***Notes*** the 2012 Flood Protection asset revaluation was completed, with a value of \$286,509,328.

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- Attachment 1** Asset Condition Report 2011/12 - Supplementary information for the Wairarapa River Schemes and Western area rivers
- Attachment 2** 2011/12 Northern Wairarapa Rivers Environmental Monitoring Report