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Committee Hutt Valley Flood Management Subcommittee  
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## Hutt and Wainuiomata Rivers Asset Management Report for 2014/15

### 1. Purpose

To advise the Hutt Valley Flood Management Subcommittee (the Subcommittee) of the overall condition of the department's infrastructural assets on the Hutt, Waiwhetu and Wainuiomata Rivers and to seek confirmation that these assets have been satisfactorily maintained.

### 2. Background

Greater Wellington Regional Council (GWRC) is responsible for a variety of flood protection infrastructural assets located on 15 river schemes across the region. These assets have a total value of \$262.8 million and provide flood protection to the property and people located on the floodplains of these rivers. Assets on the Hutt and Wainuiomata Rivers have a value of \$66.2 million and \$1.9 million respectively<sup>1</sup>.

The Flood Protection Department's asset management system identifies the services and strategies required to meet a defined level of service on a sustainable and cost-effective basis, and the expenditure and funding needed to achieve this. Monitoring of these assets over the past financial year is an important component of this system and seeks to re-assure GWRC that the various assets are being maintained to the required level of service, will perform as designed and, where required, are being enhanced.

### 3. Asset Management System

The organisational focus on asset management within GWRC has continued and good progress has been made in a number of improvement plan areas including:

- Finalising our Asset Management Plan (AMP) with consistency as per the Long Term Plan and the Infrastructure Strategy.

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<sup>1</sup> As at 30 June 2012

- Refining the use and reporting functions of our asset management tool SAP Plant Maintenance.

This financial year will focus on further refining the AMP, progressing 18 key identified projects as part of our Asset Management Improvement Plan and reviewing business process to streamline activities.

### **3.1 Asset Condition**

The annual asset condition assessment process involves grading each individual asset from 1 to 5. An asset graded 1 is in very good condition, while an asset graded 5 is in poor condition and requires upgrade, replacement or should be written off.

The assessment process involves the inspection of individual assets and the assessment of their condition. The process is made more robust by the involvement of managers and the sharing of information between different catchments. Critical assets are currently identified by their type, a process which works well to ensure the highest priority assets receive the most attention. However a project is underway to provide a more nuanced consideration of criticality and assign the level based on performance requirements.

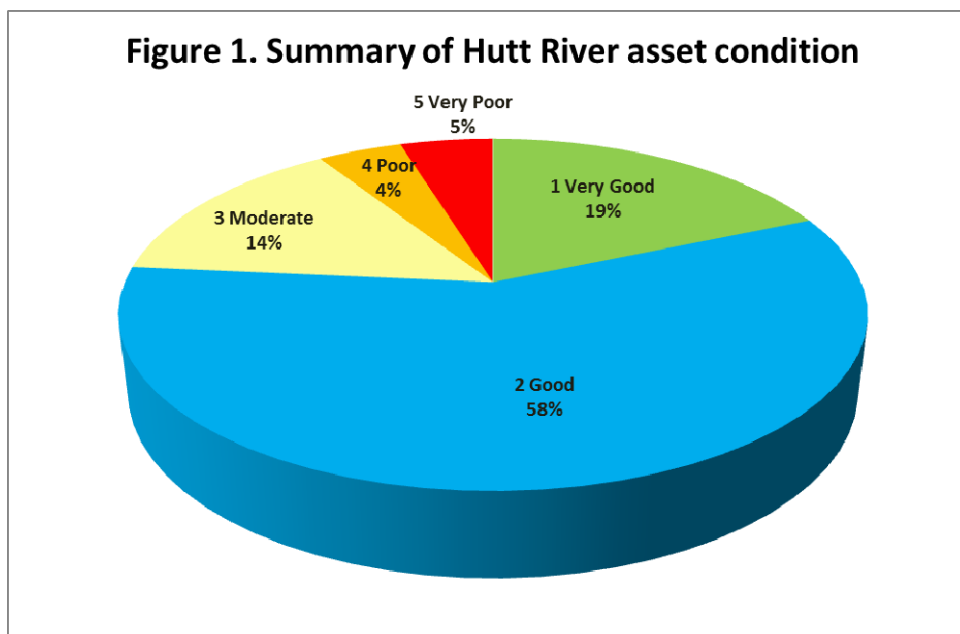
#### **3.1.1 Hutt River**

On the Hutt River, 91% of the assets are in a good or moderate condition (rated 1 to 3). In this context, good or moderate condition means that there is only general wear or tear with only minor or moderate maintenance required. This is compared to 85% in 2013/14.

9% of assets have been rated as being in either poor or very poor condition (rated 4 and 5). However, these assets are mainly low level erosion protection or vegetative structures and are not critical.

Overall there has been a small improvement in the asset condition due to improved asset maintenance activities. However, floods in May and June 2015 caused extensive damage just after the condition assessments were undertaken and this has impacted on the current asset condition. Repairs from those floods are ongoing.

A summary of the asset condition for the Hutt River is shown in **Figure 1**.



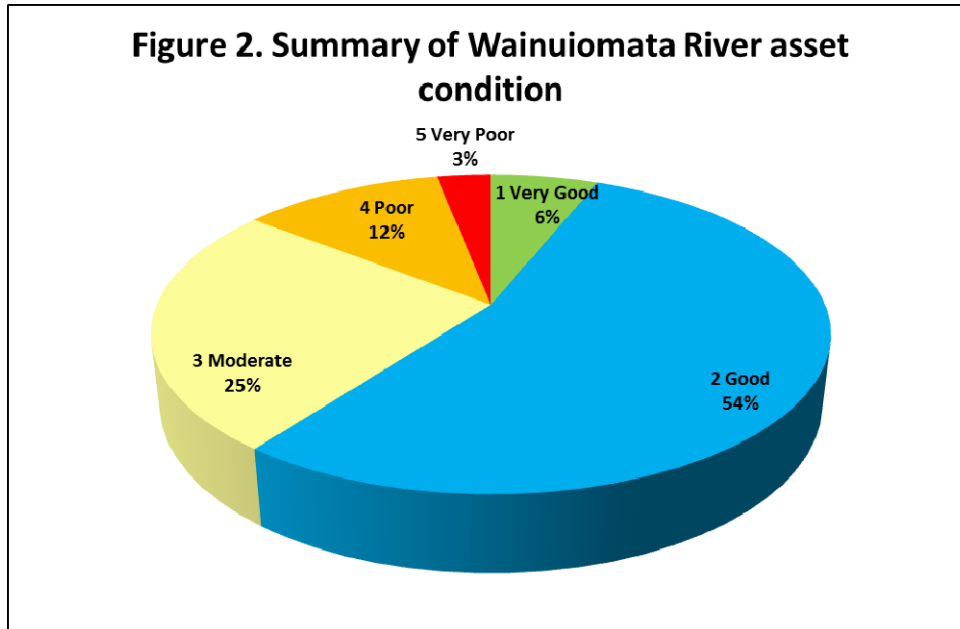
**Table 1** below provides details of asset condition rating

Condition Rating 2014/15						
Hutt River	1 Very Good	2 Good	3 Moderate	4 Poor	5 Very Poor	Grand Total
Blockline		1	7	1		9
Bridge	1	1				2
Culvert	7	19	1			27
Debris Arrestor		1				1
Debris Fence	3	111	25	27	42	208
Demolition Line		5	13	1		19
Fence Rail Iron Net		12	1	3	3	19
Floodgate	7	7				14
Floodwall	9					9
Groyne	17	68	10	2	3	100
Riprap	20	132	4		6	162
Stopbank	96	142	5			243
Track	123	310	17	1	1	452
Training Bank		10	2			12
Willow	3	72	138	32	19	264
Wingwall	2	2				4
<b>Grand Total</b>	<b>288</b>	<b>893</b>	<b>223</b>	<b>67</b>	<b>74</b>	<b>1545</b>

### 3.1.2 Wainuiomata River

On the Wainuiomata River 75% of the assets are in a good or moderate condition. The 25% of assets that are in either poor or very poor condition are all willows, apart from one non critical rail iron fence.

A summary of the asset condition for the Wainuiomata River is shown in **Figure 2**.



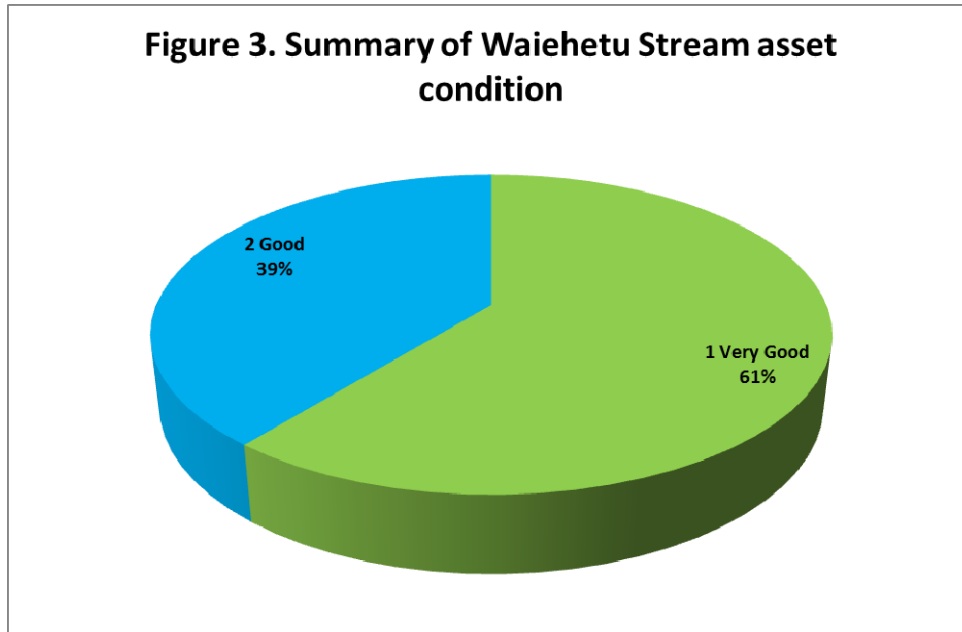
**Table 2** below provides details of asset condition rating

Condition Rating 2014/15						
Wainuiomata River	1 Very Good	2 Good	3 Moderate	4 Poor	5 Very Poor	Grand Total
Culvert	4					4
Debris Fence			1			1
Fence Rail Iron Net				1		1
Floodgate	4	1				5
Groyne		4				4
Riprap		1				1
Stopbank		14				14
Weir		1				1
Willow		7	27	14	4	52
<b>Grand Total</b>	<b>8</b>	<b>28</b>	<b>28</b>	<b>15</b>	<b>4</b>	<b>83</b>

### 3.1.3 Waiwhetu River

On the Waiwhetu Stream all of the assets are in a good or very good condition. This high level of condition is due to the recent capital works along the Boulcott reach with most assets either upgraded or newly constructed.

A summary of the asset condition for the Waiwhetu River is shown in **Figure 3**.



**Table 3** below provides details of asset condition rating

Condition Rating 2014/15						
Waiwhetu Stream	1 Very Good	2 Good	3 Moderate	4 Poor	5 Very Poor	Grand Total
Blockline		5				
Bridge		1				
Fence	4					
Floodwall	6					
Riprap		3				
Track	4					
<b>Grand Total</b>	<b>14</b>	<b>9</b>				<b>23</b>

## 4. Flood Damage Reserves

GWRC manages 15 river schemes across the region. Scheme reserves have been established to enable flood damage repairs to be made following flood events. These reserves are available for floods from a 5 to 25 year return period. For floods greater than a 25 year return period the Major Flood Investment Reserve can be called upon. The total flood damage reserves for the region to 30 June 2015 are \$12.4 million.

Maintenance budgets, together with the scheme reserves, are sufficient to ensure that assets can continue to be maintained to the required service level across the region in 2015/16.

A summary of river scheme reserves is detailed in **Table 4** below.

<b>Scheme</b>	<b>Scheme Reserve</b>	<b>Major Flood Investment Reserves</b>	<b>Total Reserves</b>
Eastern River Total	3,215,325	1,286,694	<b>4,502,018</b>
Western Rivers Total	2,571,938	1,286,694	<b>3,858,632</b>
Sub Total of Schemes Reserves	5,787,263	2,573,387	<b>8,360,650</b>
GW Flood Contingency Reserve	1,503,184		<b>1,503,184</b>
GW Major Flood Investment		2,573,388	<b>2,573,388</b>
<b>Total of All Schemes Reserves</b>	<b>7,290,447</b>	<b>5,146,775</b>	<b>12,437,222</b>

## 5. The decision-making process and significance

Officers recognise that the matters referenced in this report may have a high degree of importance to affected or interested parties.

The matters requiring decision in this report have been considered by officers against the requirements of Part 6 of the Local Government Act 2002 (the Act). Part 6 sets out the obligations of local authorities in relation to the making of decisions.

### 5.1 Significance of the decision

Part 6 requires Greater Wellington Regional Council to consider the significance of the decision. The term 'significance' has a statutory definition set out in the Act.

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.

### 5.2 Engagement

Engagement on the matters contained in this report aligns with the level of significance assessed. In accordance with the significance and engagement policy, no further engagement on the matters for decision is required.

## 6. Recommendations

*That the Subcommittee:*

1. **Receives** the report.
2. **Notes** the content of the report.
3. **Confirms** that the assets on the Hutt, Waiwhetu and Wainuiomata Rivers have been maintained to the satisfaction of the Subcommittee.

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