

**KAIKOURA DISTRICT COUNCIL WORKS AND SERVICES
COMMITTEE MEETING HELD ON WEDNESDAY 16
MARCH 2011 IN MEMORIAL HALL SUPPER ROOM,
ESPLANADE, KAIKOURA.**

AGENDA

1. Apologies

2. Matters of Importance to be raised as Urgent Business.

3. Matters Arising from Report of 16/2/2011

page 85

4. Minutes Action and Issues List Update

MEETING	ACTION REQUIRED	BY	DATE ACTIONED
	<i>16 FEBRUARY 2011</i>		
Works & Services	Report on information received from Smart Alliances regarding Blue Duck Valley Road.	Asset Manager	Refer Roding Report.
Works & Services	Check the section on the corner of Austin and Scarborough Streets with long grass is on the fire hazard list.	Committee Secretary	The property is on the fire hazard list and correspondence has been sent.

5. Reports:

- **Works and Services Report** *page 1*
- **Roding Report** *page 7*
- **Works and Services Budget Report** *page 27*

6. Urgent Business

WORKS AND SERVICES REPORT

1.0 WATER SUPPLY

Urban Water

Operations – Kaikoura Urban Supply

The Kaikoura Urban supply operated fairly well during the reporting month.

Operations – Suburban Supply

There were no major problems with this system during the reporting month.

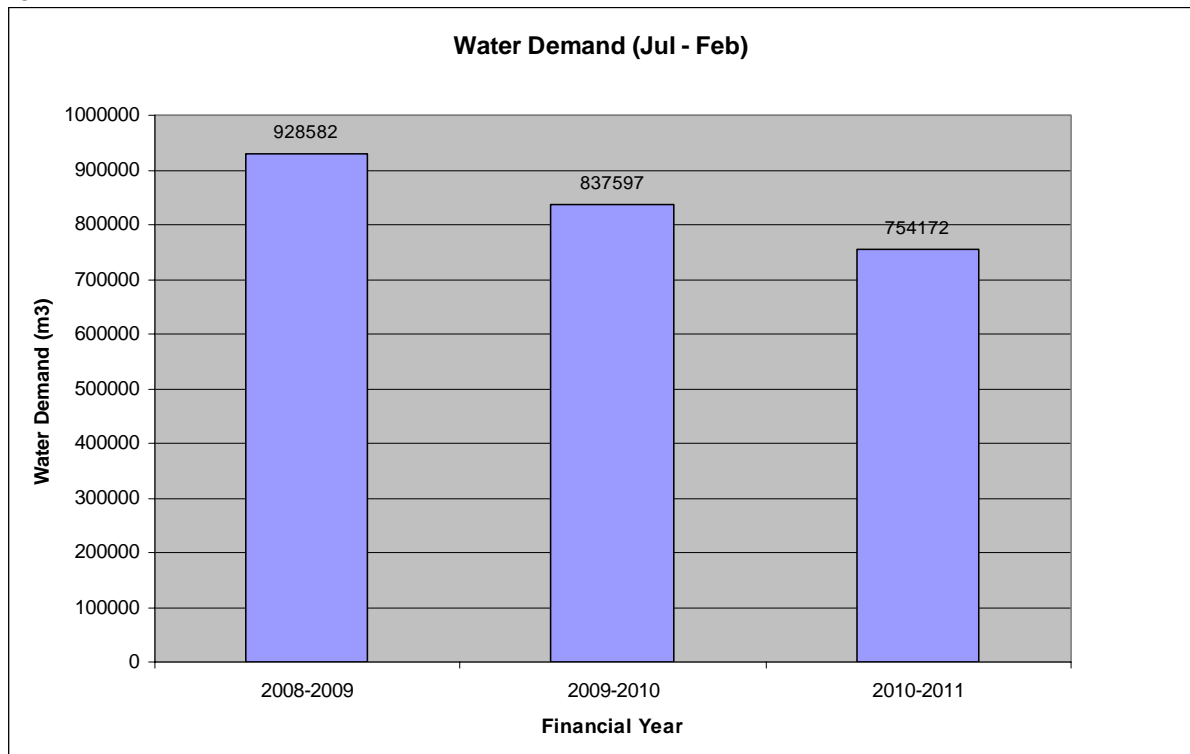
Water Demand

Table 1 below shows the water demand for the reporting month measured from the Mackle's bore while figure 1 on page 5 shows the yearly cumulative water demand since 2007.

<i>Water Demand (m³/day)</i>				
	<i>Min (m³)</i>	<i>Avg (m³)</i>	<i>Max (m³)</i>	<i>Total Demand (m³)</i>
<i>Dec 2010</i>	2609	3702	5162	114,752
<i>Jan 2011</i>	2826	4184	5248	128,687
<i>Feb 2011</i>	2826	3583.5	4677	100,337

Table 1: Water Demand for reporting period

Based on the financial year calendar, the cumulative water usage (demand) to date is shown in figure 1 below.



Kincaid Water Supply

There were no major issues with the Kincaid supply during the reporting month.

The Kincaid Water Committee, at their meeting of 9 February 2011 decided to go ahead with the installation of a Cartridge and UV filter system.

The equipment has since been ordered and a small shed and re-arranging of the pipe work is now being designed for pricing. Once all the work is completed the Public Health Risk Management Plans (PHRMP) will be updated and Council will apply for the water grading of this supply to be re-assessed.

Water Upgrades /Renewal Projects - Capital Assistance Programme (CAP)

Peninsula Tank – We are still waiting for an update from Telecom regarding the area of land for the erection of the Peninsula Reservoir

2.0 SEWER SYSTEM

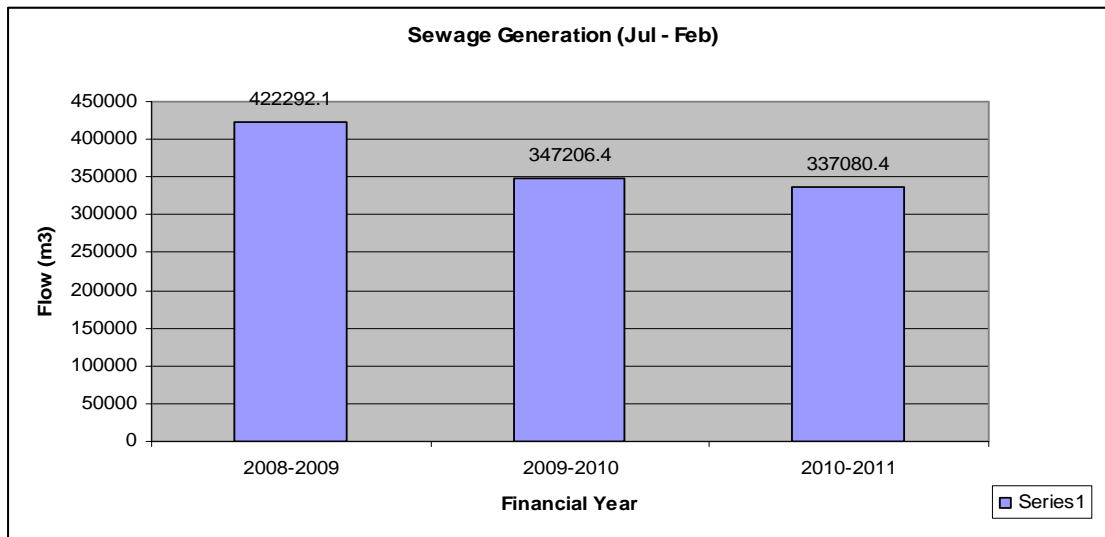
Table 2 below shows the average sewage flows for the reporting month as measured at the Mill Road pumping station while figure 2 on page 6 shows the sewage generation to date in comparison to previous years.

The total flow for the month of February 2011 was approximately 44,004m³

<i>Sewage flows (m3/day) – Mill Rd</i>			
	<i>avg</i>	<i>max</i>	<i>Total Flow</i>
<i>Dec 2010</i>	1330	1681	41221
<i>Jan 2011</i>	1526	2093	47314
<i>Feb 2011</i>	1572	2093	44004

Table 2 : Sewage generated for reporting period

The measured Dissolved Oxygen (DO) averaged 3mg/l for the reporting month.



2.1 Sewer Renewals

An application for Archaeological Authority has been lodged with Historic Places Trust New Zealand and an application for resource consent lodged with Kaikoura District Council for works to be carried out along the West End. This is required because a section of the 225mm diameter pipe to be renewed is located in an archaeological area (A177 of the Kaikoura District Plan).

Once these approvals have been granted the tendering process will commence.

2.2 Aerated Lagoon

The physical works for this new asset have not commenced however the contractors are acquiring the materials for the works. All the works are scheduled to be completed by the end of June 2011.

3.0 STORMWATER

Urban Stormwater

There were no major issues for the reporting month.

4.0 PARKS AND RESERVES

Most parks and reserves areas are in a fair condition. Our concerns were communicated to the contractor with regard to areas not been attended to as early as they need to. We were informed that an additional person will be working 2 days per week to get things moving faster.

Tom's Track

The contractor commenced work on Tom's Track on February 28th, 2011. The work being carried out is to retain the area of significant slip as identified in a Geotechnical report prepared by Smart Alliances for Kaikoura District Council. The works involves:

1. Retaining wall 400mm high (90 linear meter approx) including polythene to base and novaflow drainage with solid discharge pipes etc, concreted posts, back filled with aggregate.
2. 90m length of 100mm x25mm pegged track boundary to bottom side of track.



South Bay Recreational reserve

1. Barbeque – A letter has been sent to the Lions Club seeking confirmation regarding their interest in donating a barbeque for the South Bay Recreational Reserve. We are awaiting their response however; from a brief discussion with the Lion's secretary it appears they are still interested in the project.
2. Wire Rope - Discussions with a representative of Standen D M Ltd indicate that the price for a 60mm diameter wire rope would be \$92/m exclusive of GST. With this, the cost to be incurred if installed at the reserve would be approximately \$29,440.00 (320m).

Shaw's Wire Rope located in Cambridge indicates that the cost for a 46mm diameter wire rope was \$112.00 per meter hence \$35,840.00 for the required length. Note these cost excludes GST.

Discussions with Derek Jones (Derek and Ian Woodward) provided us with a Christchurch based company that supply mooring chains however we were unable to make contact. Dolphin Encounter has also indicated to Ian Woodward that they could look at providing some funds for chains. Not having ascertained a price for the chains we are uncertain as to cost and any funding that Dolphin Encounter would like to contribute however, once this is done we will write to Dolphin Encounter confirming their interest and also any monetary amount they are willing to contribute.

5.0 PUBLIC TOILETS

The Toilets are in fair condition.

The Wellington Police have since forwarded the camera that was stolen from the West End toilet however we have not received the funds for the camera's re-installation.

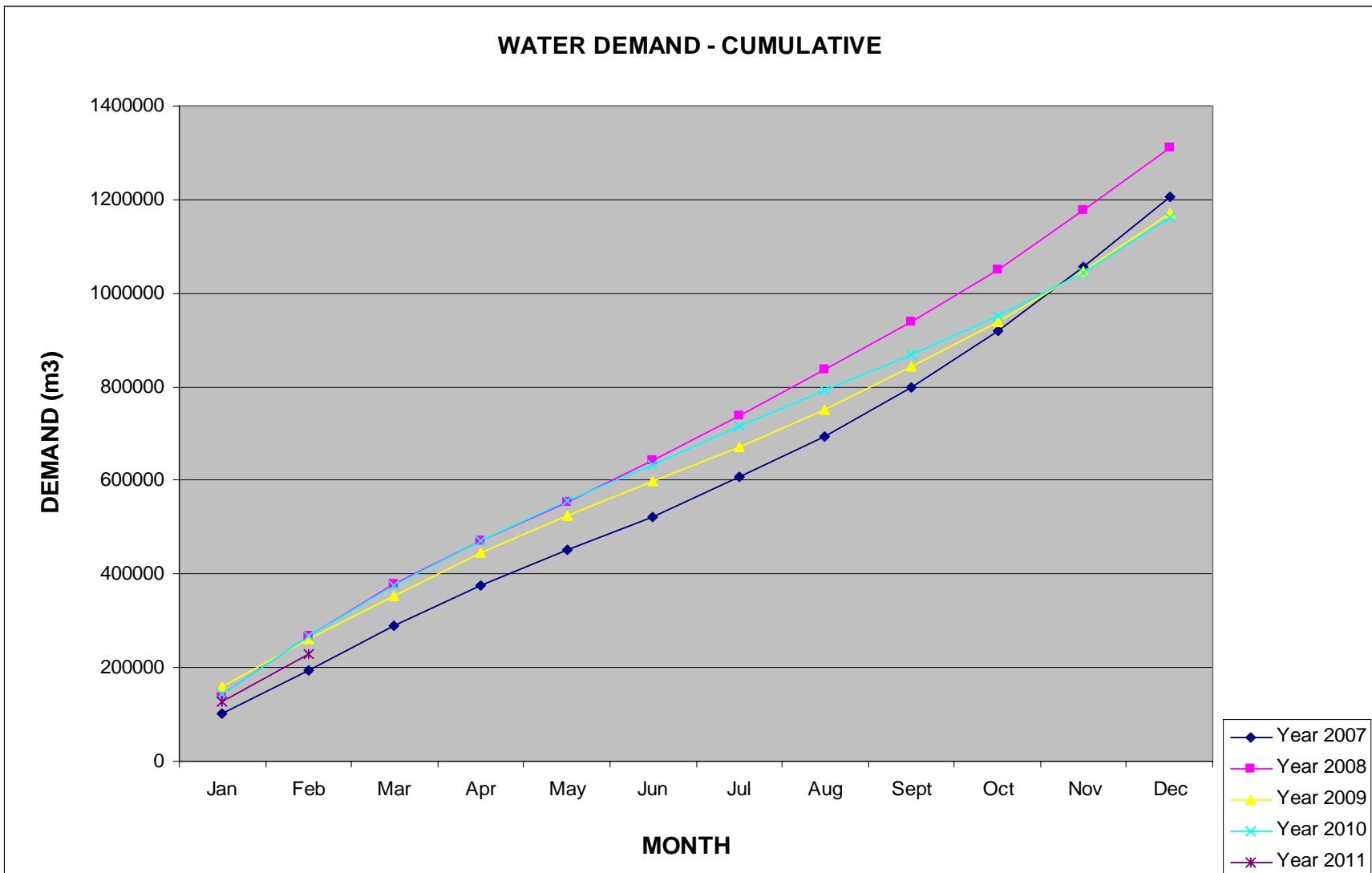


Figure 1: Yearly Cumulative Water demand

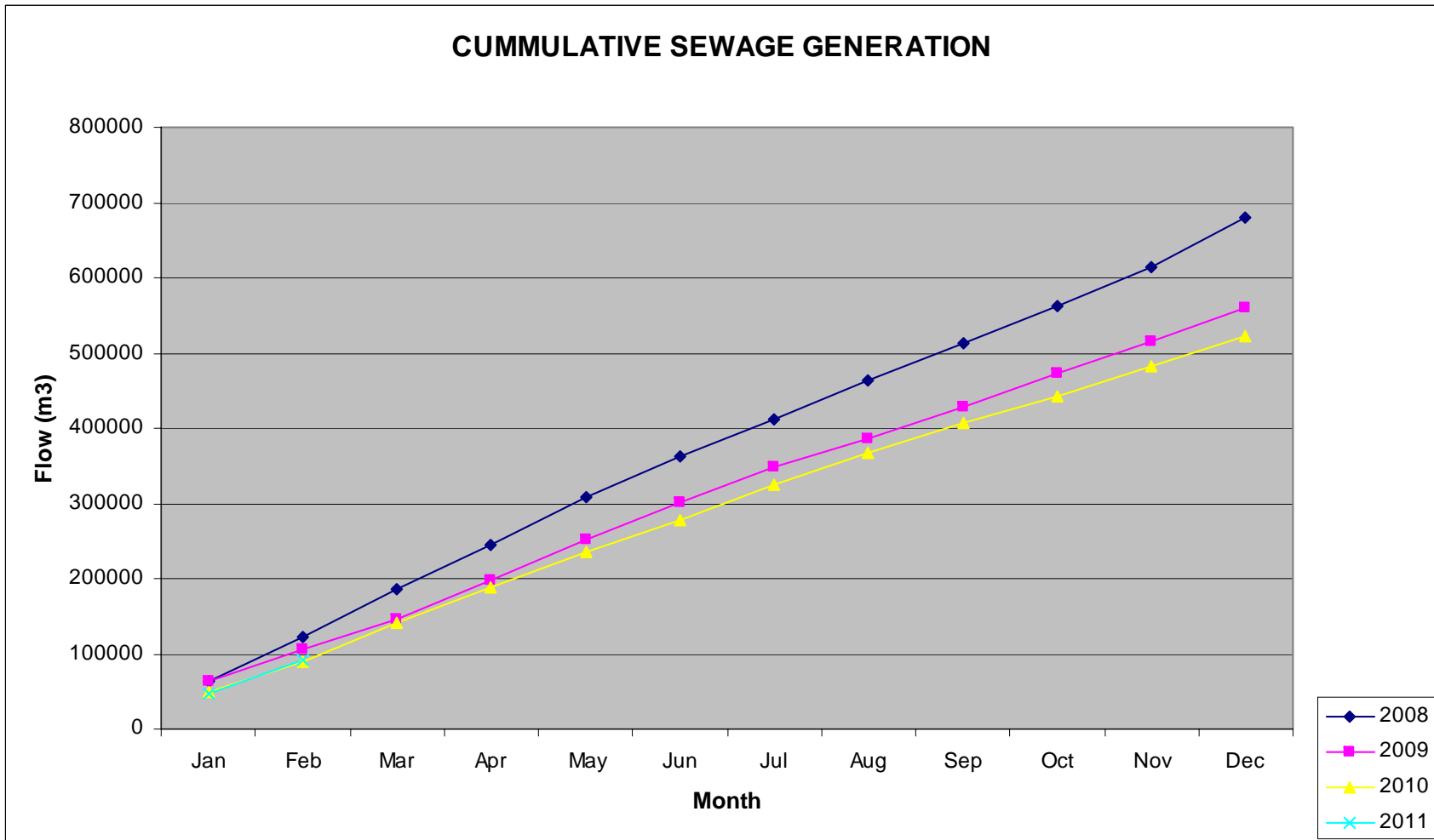


Figure 2: Yearly Sewage Generation

ROADING REPORT

1.0 Landslide Blue Duck Valley Road

On the 24th January 2011 the Council requested an independent geotechnical engineer be commissioned to appraise the existing condition (stability), causes and possible remedial options of the landslide occurring on the slope adjoining the Blue Duck Valley Road and the property located at number 285 Blue Duck Valley Road. Smart Alliances Engineering/Resources Management LTD was engaged to carry out the Geotechnical investigation.

On the 14th February 2011, Smart Alliances submitted their report to Kaikoura District Council. A full copy of the report is attached on page 15 and a summary of the report highlighting the findings and conclusions from the geotechnical investigation below.

Background

- a. 20 years ago the original road slipped down into the gully below and the road was realigned by cutting into the hillside.
- b. Land has since been stable until 2008-9 when the slip reactivated caused by the heavy rainfalls
- c. The investigations revealed historic landslide debris overlying the weathered bed rock.
- d. An older inactive slip scarp was identified at the crest of the slopes.
- e. "It is considered that the landslide is a reactivation of an older slip feature that was in the marginal state of instability prior to the toe removal associated with the road realignment 20 years ago".

Existing Instability

The existing landslide is active with tension cracks and signs of active movement. Also evident is ground water seepage in the lower third of the slip profile.

Point to note here is that "the threshold between the point when vegetation provide a stabilizing action by helping drain and provide binding action on a landslide, to when the weight of the vegetation root systems provide a driving force for further landslide movement, is likely to have been exceeded". This simply implies that the slip is active and will continue to come down.

Impact on Existing Structures

1. Ken Hamilton's House and Woolshed

The report stated that these structures are sufficiently located away from the landslide and are not exposed to any risks even if no intervention is taken to stabilize the slope.

2. Dog Kennels

These are located approximately 10m from the top of an old head scarp which appears to be stabilising. Looking at the sketch one can see that the Kennels are away from the large landslip and therefore not affected by it.

3. Council Road

The road is being affected by the slip, material coming down and blocking off the road is cleared by Fulton Hogan.

Possible Cause of the Slip

- events such as earthquake shaking and
- intense or prolonged rainfall storms

Remedial Options

Can be implemented individually or in combination;

- a. Do nothing.
- b. Excavate and remove the unstable blocks of soil and vegetation.
- c. Install a cut-off drain above the landslide to remove stormwater ingress into the area.
- d. Provide mechanical reinforcement to stop further regression and propagation of the landslide scarf.
- e. Fully retain the road cut.
- f. Realign the road further to the south to original (pre 1990) position.

Selection of an option shall reflect the level of risk to structures and services balanced against the cost of the option and also the risk of failure per year.

Conclusion

- a. The landslide represents a reactivation of an older slip that was in a marginal state of stability prior to the toe removal associated with the road realignment.
- b. It is considered that the realignment of the road has “contributed to or exacerbated” the instability condition of the old slip. The engineer however clarified this statement by saying that it cannot be categorically confirmed that the reactivation of the slip would not have occurred had the road not been realigned by cutting the toe of the current slip face.

Recommendation:

1. *Adopt Option 1 “Do nothing” in combination with none of the other options.*
2. *Provide the geotechnical report to Mr K Hamilton for his information and highlight the associated limitation expressed in the report.*

2.0 Bridge Inspection Report

About 90% of all routine bridge repairs and maintenance works are now completed.

3.0 Street Lighting Upgrade - Esplanade

We have been working with MainPower and Telecom to ensure that all services that need to be underground are installed as part of our water renewal project. Both companies have come on board and as a result the undergrounding of all streetlight cables in Torquay Street between Brighton Street and Margate Street have been completed by MainPower and Telecom who have also been installing all their ducting where required.

Connection boxes for the location of the new streetlights have been installed at this stage to avoid future excavations in the area. The old streetlight poles will be decommissioned overtime and new streetlights installed. The areas affected are listed below

1. Esplanade – Margate to Torquay Street
2. Torquay Street from Brighton Street to Margate Street
3. Brighton Street
4. Ramsgate Street and
5. Deal Street

The streetlights along the Esplanade between Margate Street and Torquay Street are being replaced with six new lights and the overhead cables are being removed. The works within this section will be completed by the end of April 2011. Below is an image showing the section where the new streetlights are being installed.



4.0 Road Marking

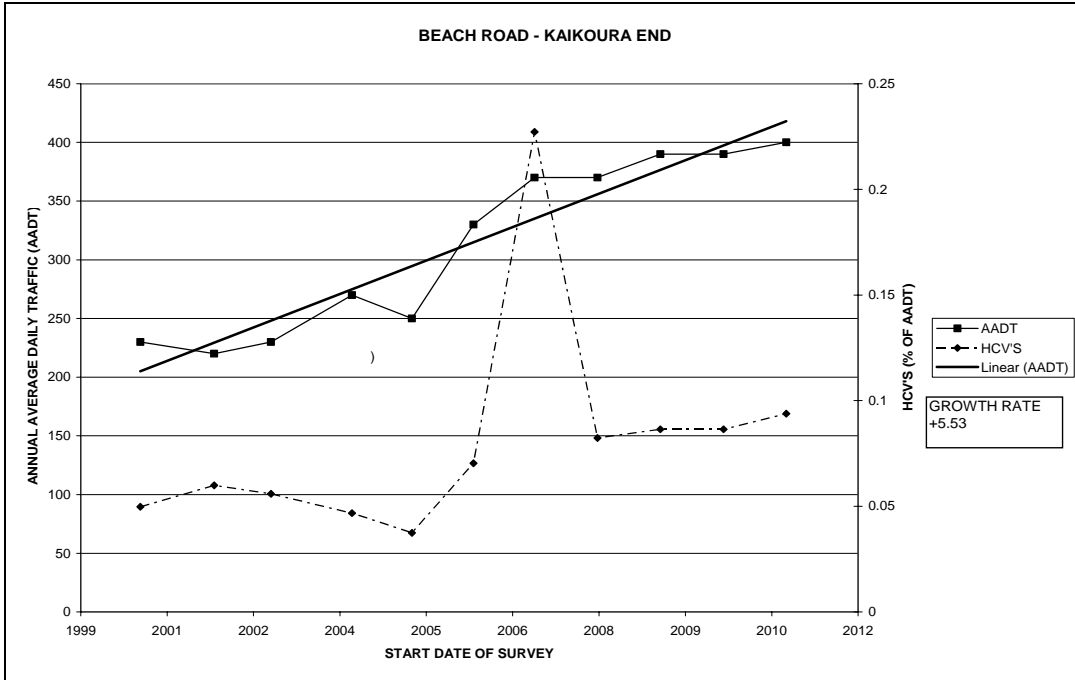
The annual road marking within the District has been completed as scheduled.

5.0 Traffic Count

February 2011 traffic count was on Old Beach Road.

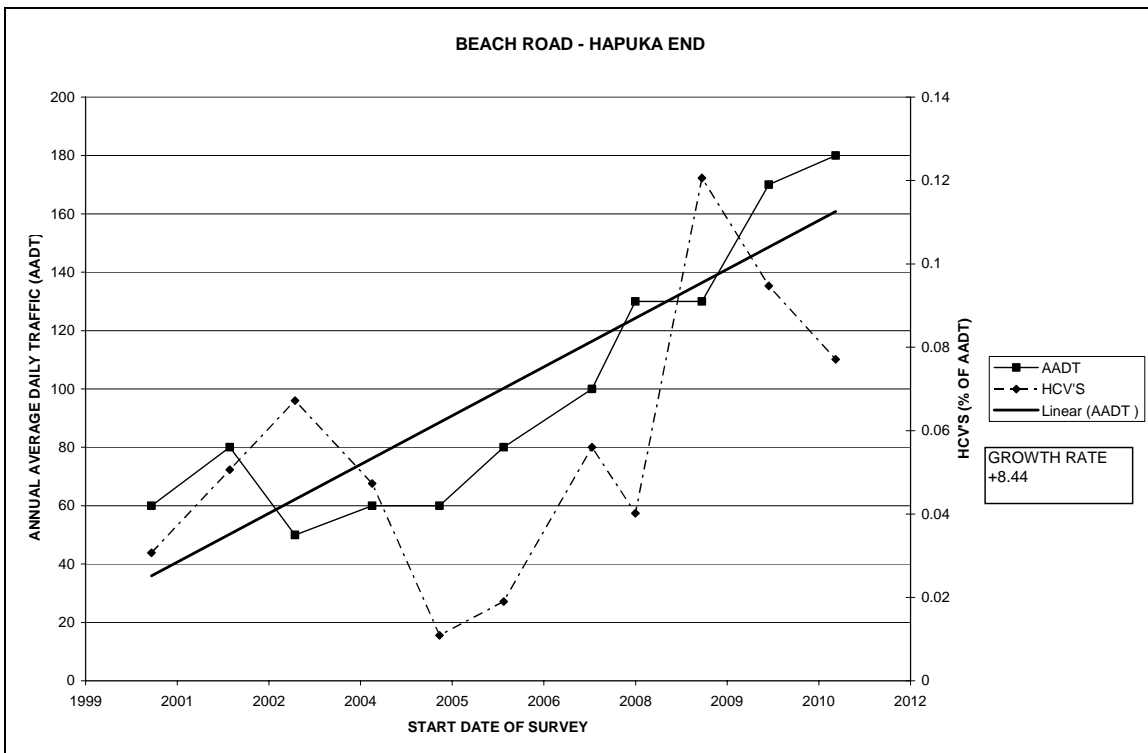
Old Beach Road (Mill Road) – 420 vehicles per Day (vpd)

The average annual daily count from 2001 to 2011 is 400 and the overall AADT growth rate since 2001 is 5.53%. 89.7% of the vehicles were travelling above the posted speed limit of 50kph with 51% of these doing between 50kph and 80kph.



Old Beach Road (Hapuku) – 174 vehicles per Day (vpd)

The average annual daily count from 2001 to 2011 is 180 and the overall AADT growth rate since 2001 is 8.44%. Only 1.9% of the vehicles were travelling above the posted speed limit of 50kph.



Copies of the traffic count reports are sent to the Kaikoura Police for their information.

6.0 Traffic Signs

A total of 63 of our traffic signs were vandalised during the holiday period.

7.0 Quality

There were no quality issues during February 2011

8.0 Environmental

There were no environmental issues during this reporting period.

9.0 Traffic Control

There were no traffic control issues to report for the period.

10.0 Inspections

The monthly roading inspection is being carried out as specified.

11.0 Monthly Performance Report – February 2011

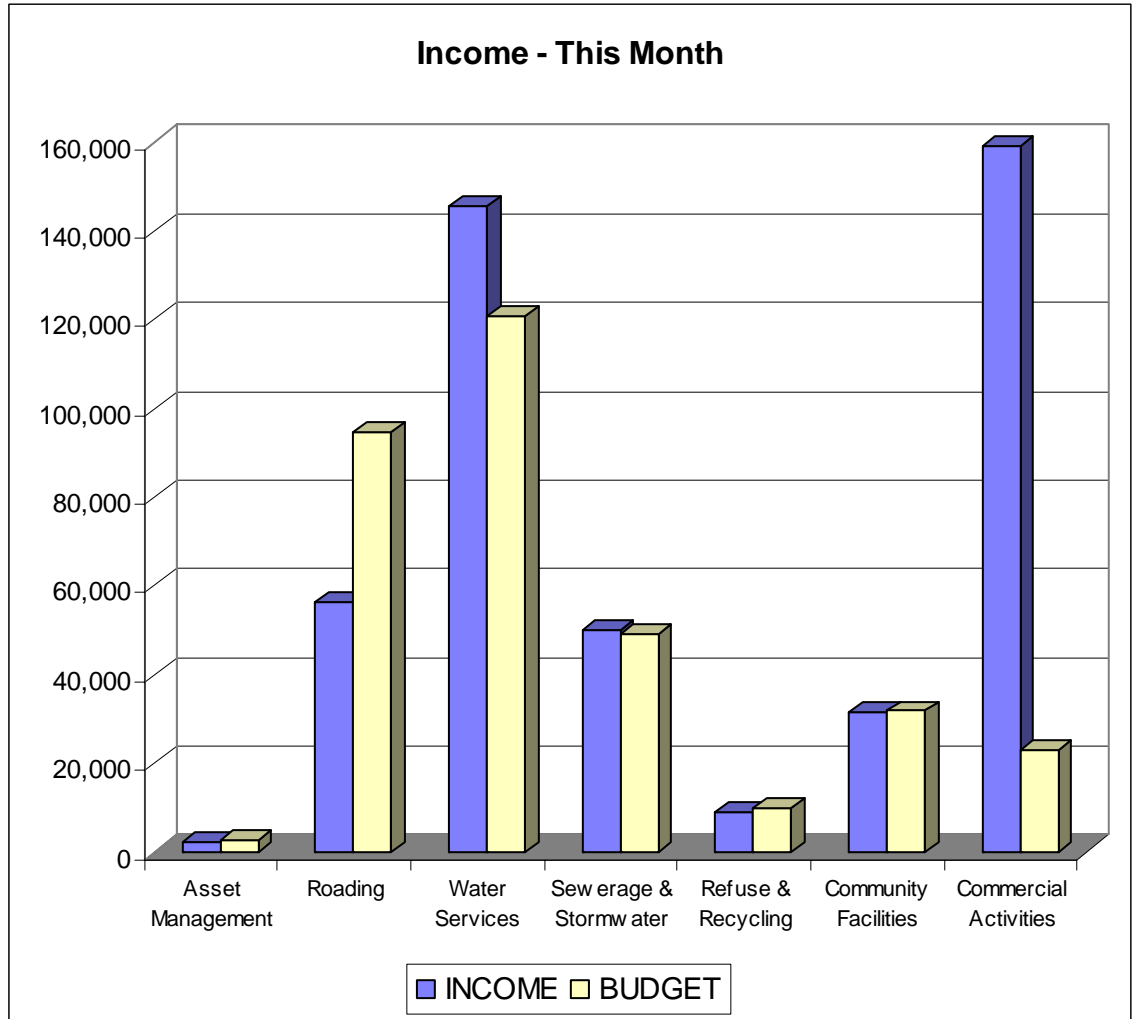
Performance Indicators	Type	Response	Number	Outside Period	% Acceptable
Surfacing	Strategic	6 Weeks	1	0	100%
Potholes	Local	7 Days	174	0	100%
Detritus & Slip Removal	Strategic	2 Days	0	0	
Detritus & Slip Removal	Local	7 Days	3	0	100%
Drainage	All	12 Hours	2	0	100%
Unsealed Pavement Potholes	Local	7 Days	0	0	
Unsealed Pavement Digouts	Local	6 Weeks	0	0	
Edge Marker Post	All	7 Days	32	0	100%
Signs and Chevrons	All	24 Hours	11	6	45%
Sight Rails and End Markers	All	48 Hours	0	0	

12.0 Summary of Work Completed in the Period

Road Name	Potholes	Digouts	Edge Break	Other Sealing	Grading	Surface Debris	Drainage	Markerposts	Signs	Other Signage	Vegetation
ADELPHI TERRACE	1 large pothole repaired										
BAY PADDOCK ROAD	3 potholes repaired										
BEACH ROAD									New post Give Way sign Middle Creek Bridge		
BLUE DUCK VALLEY ROAD	101 potholes repaired										
CHURCHILL STREET				Prep & seal entrance							
DAIRY FARM ROAD					Graded						
EDMUND AVENUE									new post Stop Sign		
ESPLANADE ROAD INLAND ROUTE RS00/0						pickup rat tailes- sweep chip from car park new clock					
								30 EMP replaced			

INLAND ROUTE RS16/0	23 potholes repaired		Pre reseal								
KEKERENGU VALLEY ROAD							new cattle stop				
KIWI STREET									New No Exit/Stati on Rd		
KOTUKU ROAD			Pre reseal								
KOWHAI FORD ROAD			Pre reseal								
LOVERS LANE						Graded					
LUDSTONE ROAD	8 potholes repaired										
MCINNES ROAD							Sweep intersectio n & water tables				
MILL ROAD	7 potholes repaired										
MOUNT FYFFE ROAD		shoulders	Pre reseal	Limestone mix	Graded						Weed eat Totara Lane
POSTMANS ROAD									Four new Ford signs		
PUHI PUHI ROAD					Graded						
SCARBOROUGH STREET	pothole repaired										
SCHOOLHOUSE ROAD	54 potholes repaired		Pre reseal		Graded						
SKEVINGTONS ROAD					Graded						
TOPLINE ROAD					Graded						

Works and Services Budget Report



Expenditure - This Month

