

Supplementary Report for the:

Ordinary Meeting

of the

Tairua-Pauanui Community Board

Date	15 July 2019
Time	10:00am
Venue	Pauanui Community Hub 23 Centreway Pauanui

Members

Chairperson	R N Renton
Members	HD Bartley W P Brooks S H Campbell T M Walker

Members of Tairua-Pauanui Community Board



Bob Renton (Chairperson)
027 378 8213
bob.renton@extranet.tcdc.govt.nz



Jan Bartley (Councillor)
07 865 8832
jan.bartley@extranet.tcdc.govt.nz



Terry Walker (Councillor)
021 536 580
terry.walker@extranet.tcdc.govt.nz



Sarah Campbell
021 707 060
sarah.campbell@extranet.tcdc.govt.nz



Warwick Brooks
07 864 8653
warwick.brooks@extranet.tcdc.govt.nz

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Infrastructure

Holland Close Stormwater update

TO	Tairua-Pauanui Community Board
FROM	Garry Towler District Manager Emergency Management
DATE	9 July 2019
SUBJECT	Holland Close Stormwater update

1. Purpose of report

The purpose of the report is to provide the Tairua-Pauanui Community Board with an update on protection work that is planned as a six-month trial to reduce the impact of flooding in the short to medium term and seek feedback on the preferred option.

2. Background

A community meeting was held on 27 July 2018 in response to recent flooding of the Holland Close Stream during the storm event of 28/29 April 2018. In addition, reports were also raised about similar magnitude flooding events occurring four times in the past three years. For the April 2018 event, the following observations were made by the residents:

- Flood waters entered the habitable dwelling at 5 Holland Close, and significant flooding of road and properties in the area between 3 and 19 Holland Close.
- A large amount of debris was observed blocking the 600mm diameter culvert inlet at 37/39 Mount Avenue.
- Significant surface ponding was also observed at the intersection of Mount Avenue and Florence Place, which appears to be a low point that receives overflow from lateral hill catchments via Mount Avenue and Florence Place.
- The Holland Close Stream has a narrow and shallow cross section that when modelled shows that it is only able to convey a small volume of water before it breaks the banks and flood the road and properties adjacent to the stream. The recent intensification in these flooding events has increased the risk to the properties in the area.

The initial investigations have been undertaken to assess the flooding issues at Holland Close/Mount Avenue in Pauanui. The investigation included the development of the stormwater model, which was validated against the April 2018 storm event, and used to identify and assess stormwater improvement options in the area.

This model was presented at a second community meeting held at the Pauanui Hub on 3 July 2019 to demonstrate the effects various magnitudes of flooding has on the area.

Immediate improvements need to be made in the Holland Close area to better manage stormwater during high flow rain events. Those attending the second community meeting agreed and supported staff to investigate installing flood protection barriers along the residential side of the stream for approximately 160m for a trial period to assess its effectiveness during a storm event.

Staff have completed an assessment of options available for short term protection, which will also test the low wall option in the modelling report.

Options available:

1. Sandbag wall
2. Concrete barriers

These two options are 'possible to complete' within 4 weeks and do not require any additional consents.

Sandbag wall

9,000 x 20kg bags (delivered), tier built to 7-8 high (one metre) x 1650mm preparation/ground levelling, polythene floor, transport to site & install by hand.

Expected lifetime of bags:	6-12 months
Two quotes have been received:	\$45,750; and \$41,750

The method of installation should extend the lifetime.

Concrete barriers

27 x 6m concrete barriers, jj hook connections (weighing 2.4 tonne each) x one metre high (similar to Supercar, Bathurst track barriers), ground preparation, transport & install by crane.

Expected lifetime of barriers:	permanent
Two quotes have been received:	\$89,000 (rent barriers for 12 months, transport, crane hire, ground preparation, install). \$98,500 (purchase 27 x 165 metres of barriers, transport, crane hire, install).

Staff support the sandbag wall option because this process will allow for tailored installation, will be less inhibiting and imposing to the residents yet just as effective as solid concrete barriers.

Although concrete barriers will work ideally and for a long period, the installation could be very difficult given the proximity to housing and lack of manoeuvrability incurring remedial costs to the surrounding land. This option would be reconsidered at the conclusion of the trial.

3. Suggested resolution(s)

That the Tairua-Pauanui Community Board:

1. Receives the "Holland Close Stormwater Update" report, dated 9 July 2019.
2. Provides feedback to staff on the preferred option to utilise sandbags for the six-month trial.