



Kawhia Community Board

AGENDA

25 July 2014

1.00pm

Members of the Kawhia Community Board

Ms A Gane
Mr CE Jeffries
Mrs DM Pilkington
Mr AJ Rutherford
Mr DM Walsh

Meeting Secretary: Mr CA Tutty (Governance Supervisor)

KAWHIA COMMUNITY BOARD

25 July 2014

Notice is hereby given that an ordinary meeting of the Kawhia Community Board will be held in the Community Meeting Room, Jervois St, Kawhia on Friday 25 July 2014 commencing at 1.00pm.

17 July 2014

DC Clibbery
CHIEF EXECUTIVE

AGENDA

12.45pm ***Board Photograph***

Workshop to follow meeting – To further explore the suggestion of funding within the two Communities of Kawhia and Aotea

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PRESENT

IN ATTENDANCE

APOLOGIES

ITEMS TO BE CONSIDERED IN GENERAL BUSINESS

CONFIRMATION OF MINUTES – 23 MAY 2014

REPORTS

Item 29 WATER SUPPLY UPGRADE

**To: Chairperson and Members
 Kawhia Community Board**

From: ENGINEERING MANAGER

Date: 25 July 2014

Relevant Community Outcomes

- The Otorohanga District is a safe place to live
 - Ensure services and facilities meet the needs of the Community
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Executive Summary

Commissioning of the initial upgrade to the water treatment plant has revealed that a further process stage will be required if the requirements of the NZ Drinking Water Standards are to be met.

Staff Recommendation

It is recommended that:

The report be received.

Report Discussion

The planned works to upgrade the Kawhia water treatment plant to meet the requirements of the current NZ Drinking Water Standards have now been completed.

These planned works comprised the installation of additional cartridge filters, ultraviolet light treatment and associated control equipment to provide protection against contamination of the water by protozoa, such as Giardia and Cryptosporium.

As the Board has been previously advised there was some uncertainty regarding how efficient this upgrading would be, as initial tests had seen the required very fine water filters become rapidly blocked. This was unexpected as the water is sourced from a spring and was therefore expected to be relatively free of fine sediment, and questions were raised whether this rapid blockage of the filters was due to an unusual run-off of surface water creating additional contamination.

Unfortunately the commissioning of the upgraded system has seen continuing very rapid blockage of the disposable filter cartridges at a rate that is economically unsustainable. Further testing of the water from the springs has indicated that it carries a significant and steady load of very fine particles (between 1 and 5 microns) which will be problematic for a filtration system unless chemical assisted clarification is conducted upstream of the filters.

Whilst it is intended to dig a 'cut off trench' above the springs to intercept any surface run-off with additional sediment that might contaminate the spring water, it is no clear that this will not be sufficient to prevent rapid blockage of the fine cartridge filters.

Advice from consultants is that the presence of such high fine sediment load from springs is unusual, but it is suspected that it may in this case be due to the high iron and manganese content of the water and resultant precipitation of these elements.

The Kawhia water treatment plant already has a tank that is believed suitable for a chemical clarification process, though this has not been used for this purpose since the previous practice of occasionally taking very high iron and manganese water from a borehole was discontinued some years ago.

This tank has now been re-commissioned to function as a clarifier, and the treatment results appear to be promising.

The need to operate a clarification process will however have significant cost implications. The capital costs of re-commissioning the clarifier are not particularly large, and are expected to be largely recoverable from the subsidy funding provided by the Ministry of Health.

The larger cost issue is the ongoing operation of the clarifier and the associated additional labour and chemical costs, which will not be subsidised. At this stage it is too early to accurately estimate what these costs may be, but it is suspected that a figure could be in the \$10,000 to \$20,000 per annum range, which would correspond with a 1% to 2% rate increase for the community.

Whilst this would be unfortunate, it is an unavoidable consequence of the forthcoming need for compliance with the requirement of the NZ Drinking Water Standards, which requires that extremely clear water is produced before it is treated with UV light to eliminate protozoa.

Dave Clibbery
ENGINEERING MANAGER

Item 30 KCB MATTERS REFERRED FROM 23 MAY 2014

**To: Chairperson and Members
 Kawhia Community Board**

From: Governance Supervisor

Date: 25 July 2014

Executive Summary

1. ENGINEERING MANAGER

23 May 2014

- i. To ascertain whether any portion of the foreshore seawall erected by the Maketu Marae is on Council land.
- ii. To check whether of the 106 property owners that originally contributed to the Aotea Seawall included 'Council' property.
- iii. To obtain feedback from Council's Roding Manager on the erection of Entrance signs at Aotea.

CA Tutty
GOVERNANCE SUPERVISOR

GENERAL