

From: Don Paterson [<mailto:nat.opc@xtra.co.nz>]
Sent: Sunday, 13 July 2014 4:09 p.m.
To: 'Pim De Monchy'
Subject: FW: Engineering assessment of your re-diversion option

Hi Pim

Further to my 20 May 2014 letter to you below, I wish to add that if the Ford Road stop-bank is lowered to RLO 1m, and if the 1971 Subsidised Rock Protection is removed and relocated to span between Papahikahawai Island and a point on Ford Road 100 metres to the south of the RLO .5m overtopping weir that I have proposed be built at Te Tumu in place of the mole, and also at a height of RLO 1m, then an enormous amount of Kaituna River fresh water will enter the back of Maketu Estuary on the top of every rising tide over the RLO 1m stop-banks as well as when the Kaituna River is in flood.

The majority of that reintroduced fresh water will exit at Maketu after spending a considerable amount of time in Maketu Estuary. Problems solved with little cost if working flap gates do remain working at Fords Twin Cuts or if Fords Twin Cuts is again blocked by a RLO 1m rock causeway. Some water may exit Maketu Estuary on the top of a falling tide via Papahikahawai Channel towards Te Tumu but most Maketu Estuary water will exit through Maketu Estuary mouth as had originally occurred.

Navigability goes where low tide flows and so the Kaituna River will daily maintain navigability at Te Tumu adjacent to the overtopping weir as well as occasionally through Papahikahawai Channel and Maketu Estuary. Floods will continue to exit at Te Tumu but will in part also flow through Papahikahawai Channel. They will bend around Maketu Estuary spit and stabilise it. They will remove the flood tide delta from within Maketu Estuary and they will deepen Maketu Estuary mouth at low tide. They will reduce salt water inflow to Maketu Estuary on a rising tide as will the RLO 1m stop-banks.

I have long previously requested that you draw a plan view of v-drain wetlands that could be constructed on lowlands adjacent to the lower Kaituna River. I would initially like these drawn at right angles to the existing Kaituna Road drain on all lowlands on both sides of Kaituna Road from Maketu Road through to the Eastern Arterial Link please.

I have recently had the good fortune of meeting Melanie McKenzie of 419 Maketu Road, RD 9 Te Puke, Ph 533 2402. She and her husband Ross farm lowlands adjacent to Kaituna Road that are often flooded and I believe that they may be prepared to sell those lowlands for wetland creation, initially between Kaituna Road and Maketu Estuary which would I believe be an ideal place to start building v-drain wetlands, as would also Te Awa Swamp to the east of Maketu Road with v-drains made to run at right angles to Maketu Road.

I would like to post the above mentioned diagrams on the website www.wetlandsnz.com that I have designed and built to attract funding to enable me to purchase lowlands for v-drain wetland creation to enhance local fisheries in conjunction with Maketu Estuary maritime marsh galaxius spawning habitat to be recreated.

Kindest regards

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