From: Don Paterson [mailto:nat.opc@xtra.co.nz]
Sent: Tuesday, 29 July 2014 4:54 p.m.
To: 'Pim De Monchy'
Subject: RE: Engineering assessment of your re-diversion option

Hi Pim

I believe that I have already sufficiently clarified that:

1. The “engineering assessment” is just an unproven professional opinion by Steve Everitt that was purchased by BOPRC with public funds that I have not had access to and my recommendations have not been modelled.
2. Flood relief is a certainty as Te Tumu Cut will remain unchanged and able to scour as it does now.
3. Flood inflows into Maketu Estuary will be controlled by Maketu Estuary water levels being higher than the ocean at both Maketu Estuary entrance and at Te Tumu and both will be able to scour sand. Floods will in the main continue to exit at Te Tumu once Maketu Estuary has filled because the ocean will be lower than will be Maketu Estuary. As the tide falls both Maketu Estuary entrance and Te Tumu exit will scour as does currently occur. How could Maketu Estuary flood when the ocean is lower than the estuary? Water would have to run up-hill against gravity for this to occur.
4. Low tide water levels in the lower Kaituna River and in Maketu Estuary could instead improve because two exits plus the holding capacity of Maketu Estuary will better drain the catchment more quickly than one exit currently does. At low tide the Kaituna River will exit at Te Tumu as it currently does so maintaining that exit and Maketu Estuary will have emptied at Maketu. At high tide when Maketu Estuary has filled with a mix of fresh and salt water from Te Tumu and from Maketu the Kaituna River will continue to exit at Te Tumu as it currently does over the salt water wedge. The RLO 1m stop banks that I have proposed will further ensure that this occurs, as will the constriction of the sides of Papahikahawai Channel after the high tide begins to fall at Te Tumu and as Kaituna River flow again scours that exit as the salt water wedge retreats below and beside the overtopping weir at Te Tumu.
5. Most importantly the Te Tumu exit salt water wedge will be stopped by the overtopping weir and by the sand bar that will form beside it during periods of low Kaituna River flow which will then encourage galaxius to spawn in Maketu Estuary maritime marsh and so re-establish the Kaituna River catchment ecosystem food chains in support of a fisheries rebuild.

Please clarify your statement: “the risks inherent in the earlier proposal are still present in these variations” by your describing the risks that are not removed in the above points that I have made for your clarification.

I have previously taken time away from my place of work to deliver Google earth photos with sketches of the approximate location of each of the potential v-drain wetlands to your staff at BOPRC in Tauranga to no apparent avail. I now instead invite you to visit www.wetlandsnz.com where you can see the lower Kaituna River lowland flood plains highlighted. If you would like further clarification still to my written description to Hon Steven Joyce that I also copied to you 27/7/14 then I invite you to have a meeting with me on site re same. I can make myself available for that on Saturday if that suits you.

Kindest regards

Don Paterson
CLM; HbT SRF SNTR

Chairman, History Focus Group
Kaituna River & Maketu Estuary Management Strategy
BOP Game Fishing Charters
NZ Registered Natural Therapies Practitioner NT1634

Natural Therapies 28 Jellicoe Street Te Puke 3119
Ph 07 573 5533 fax 07 573 9363
www.naturaltherapiesnz.com
www.gamefishingcharters.co.nz
www.wetlandsnz.com