

# Meeting Notes/Agenda

Sunday, 16 June 2019

1pm

Maungarongo Conference Room, Te Taiwhenua o Heretaunga,  
Hastings

<b>Meeting Convenor:</b>	Martina Groves	<b>Type of meeting:</b>	Hui- Clive River Dredging
<b>Meeting Chair:</b>	Marei Apatu		
<b>Meeting Notetaker:</b>	Martina Groves, Joella Brown	<b>Discussion Topic:</b>	Presentation on options <b>Clive River Dredging</b>
<b>Attendees</b>	Martina Groves, Anna Madarasz-Smith, Amy Minster, Joella Brown, Pieri Munro, Becky Focht, Margie Mcquire, Aki Archonnehi Paipper, Marei Apatu, Tom Mulligan, Waiora Rogers, Mike Apatu		
<b>Agenda:</b>	<ol style="list-style-type: none"> <li>1. <i>Opening and Introduction</i></li> <li>2. <i>Presentation</i></li> <li>3. <i>Questions and Discussion</i></li> </ol>		

**Discussion Summary:**

- We started with a general introduction of the project and indication that the meeting is the start of open communication with Mana Whenua.
  
- First slide of presentation was the location and length.
  - Question- How the silt gets into the river and why? The group raised their concern that HBRC should be looking into dredging for the whole river not only one selected location.  
*Anna and Martina explained that the silt came from the upper catchment and also from the backflow from Ngaruroro. The problem is also the depth of Clive river and low flows.*  
*Martina explained that the silt in the rest of the river is not as significant as the lower reach of the river (according to survey). Also problem with dredging the whole river is the technicality (finding suitable land to discharge the silt to).*  
*It would require significant funding.*
  - Aki and Margie expressed their hope that HBRC would address the issue with silt and keep communication and looking into options to resolve this issue open and they hoped they would have some solution soon.  
*Anna explained that we believe the TANK project is addressing the issue with Clive siltation and future work of planting and other activities are going to prevent this.*
  
- Second slide was on Background information.
  - Question on the volume and previous dredging and why is dredging only to a certain level and not all the way to the gravel bed to achieve better ecological values.  
*Martina is to look and investigate how far we have to dredge to get into the gravel bed. This probably won't happen this dredging period.*
  - Question: Does HBRC know what silt contaminants are beyond the dredging point and how this will transfer into the dredge area after dredging. Possibility to do survey and estimate what silt build up all the way to confluence with Karamu. Also curiosity about silt contaminant and how this will be treated when we do dredging only one section so it will be good to find out what are the contaminants in rest of the Clive river.  
*Martina to instruct Scientist to do further sampling above the dredging point and calculate what the silt volumes above the dredging area are.*

- Discussion on how we can improve flows in the river and at the next Hui Andy Hicks could provide a brief on their work and what they are currently looking to do.

- Third Slide was on Project Objectives and Dredging.

- The main objective is for recreation, the ecology values are very small.
- The dredging length is 2km lower river reach.

- Fourth slide - Discussion on Dredging Options

- **Option 1- Dredging with discharging silt into adjacent land**

Question – What will happen with silt after discharge into the land, eel, fishes etc... concern?

*Martina explained that the discharge area would be monitored during the discharge.*

*The silt (depends on contaminants) could be sold to contractor so it has economical benefits.*

Question- can this option be considered upstream of dredging?

*Martina – currently we have not found suitable or available land for silt discharge. This can be investigated further if dredge progressed further upstream. (currently not part of this project)*

- **Option 2- Discharge into the coast line (1997,2009)**

Martina explained that this option needs more investigation (environmental effects, bathometry), this is not a preferred option by HBRC, however Anna explained that the TANK process recognised the estuaries are highly stressed; our coast area is stressed as well. In addition, there is the marine worm to consider.

This option is not supported by align with the HBRC key values.

- **Option 3- Discharging the silt into the sea bed.**

It has the same effect as Option 3 and not favourable option plus this option would cost much more than option 1.

- **Option 4- Cart away.**

This option is similar to option 1 with more signification cost increase and therefore not a favourable option.

Question- If we dredge the whole river what are the option for treating and use of sediment.

*Martina is to discuss this option and investigate further.*

	<p>Meeting conclusion:</p> <p>Tangata Whenua is not against the dredging but want HBRC to look and take the conversation beyond the dredging point. They would like to know what the options of treating the silt are and also to have a discussion on how we can increase the flow in the Clive river.</p> <p>They would welcome Scientist Andy Hicks to talk about water quality at the next Hui.</p> <p>We proposed the next Hui to be held in a month time to keep the conversation open.</p>
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Item No.	Type	Details	Owner	Target Date	Status
1.	<b>Action</b>	Martina to investigate silt treatment or what else we can do with silt	MG	August 2019	
2.	<b>Action</b>	Joella to let HBRC know date of the next HUI	JB	August 2019	
3.	<b>Action</b>	Martia to share information with the Tangata Whenua	MG	August 2019	
4.	<b>Action</b>	Volume clarification beyond the dredging point and contaminants	MG	September 2019	
5.					