Kaipātiki Local Board Community Forum

OPEN MINUTE ITEM ATTACHMENTS

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Note: The attachments contained within this document are for consideration and should not be construed as Council policy unless and until adopted. Should Councillors require further information relating to any reports, please contact the relevant manager, Chairperson or Deputy Chairperson.
Mata Of Hope a charitable organisation registered in August 2017 to support New Zealand children and families of African Heritage in ways that are **culturally sympathetic, support healthy safe homes** and the development of **positive social connections**.
Our Why and Purpose

Happier Families, Happier Children.

Over 5000 children in State Care. 88 identify with African Heritage (Oranga Tamariki June 2017)

3 African / Kiwi women resident in Kaipatiki for over 2 decades motivated to help by addressing the issue within the African community. We support families and children through early involvement and link them with support they need in a culturally sympathetic manner.
Our Work

Connecting with families to reduce isolation and improve belonging
Facilitate and link them to service providers and other resources
Advocate on their behalf
Connecting with the wider community through our Conversation workshops and Christmas day community picnic
How our community can engage with us

Share our work

Connect with us

Email: mataofhopenz@gmail.com
Q & A
It takes a village
The past year, Mata of Hope have been actively making community connections.
We have volunteered and committed over 300 hours engaging with the wider community.
We have done this through free events and workshops like annual Christmas day picnic, community conversation workshops and face to face meetings.

www.mataofhopenz@gmail.com www.mataofhope.co.nz
Little Shoal Bay
Reports

- Council report mid 80s – the bay is a planning nightmare, could be like Wenderholm
- Matthew McNeil report on sand movements
- Ferry trips have increased 600% since report
- Little Shoal Bay uni report 2006
- Halls Beach report 2007
- Tonkin and Taylor review 2008
Little Shoal Bay
Attachment A

Halls Beach way back
Item 8.2

Halls Beach
Attachment A

Halls Beach
Halls Beach sand loss
Item 8.2

Matthew Mc Neil Report

Figure 7.5 Direction of flow in Little Shoal Bay.
Attachment A

Halls beach erosion
Little shoal bay

- Overflow outlet
- boat ramps
- Eroding headland
- Primary pipe/stream
Little Shoal Bay 1976
1996/2018
Attachment A

Mid 1990s/2005/2018
Mid 1990s/2018
Attachment A

1999/2005/2018
Sand washing away into the stream.

- No natural ability for sand to stay as concrete wall leads straight into the stream.
Item 8.2

Hard Infrastructure Failing/Erosion

Attachment A
Eastern storm water/beach being undermined/old hard fill being
Item 8.2

Slippery and dangerous in winter/oysters now growing
Walls falling apart, scoured out by rain and rising sea levels
Item 8.2

Walls falling apart and clay exposure

Attachment A
Scouring and blow outs
Attachment A

Beach washouts
Coast washing away
Attachment A

Item 8.2

Soil washing away
Item 8.2

- Sea level rise
- Ferry wash from bigger ferries. 3.1 tide
**Sea Level rise**

- Currently 30cm deep over the wall on king tides
- Half a meter deep during big storms
- In 2040 half of all tides will reach the top of the wall or flood over.
- In 2040 the sea will be 80cm plus deep during storms
- Causes erosion and liquefaction
- The bay will flood a 1 in 100 year flood every 2 weeks in 2040.
Normal 3.74 tide no storm
Storms – 1cm rise in sea levels per 1ha fall in air pressure not including wind
Item 8.2

During a storm
Item 8.2

During a storm
Item 8.2

Primary Pipe undermining the wall with hugely increased sea water flows.
Item 8.2

Primary Pipe undermining the wall
Primary Pipe rapidly washing away the beach
Item 8.2

Sand washing away at nearby beach
Item 8.2

Sand washing away
If nothing is done

• Most of the sand will be washed away.
• Sea is rising 1cm every 3 years.
• Ferry trips will increase
• The coasts walls, soils and sand will erode at a faster and faster rate.
• Coastal fixups will be washed away again as soil surrounding them is exposed to sea.
• Flooding into the wetland will increase as sand blocking the culvert reduces.
• The walls around the primary pipe will crack in future with further undermining.
Solution

• Allow sand to build up in the system naturally which will in turn cover up and fill in holes caused by the sea.
• Use the money for fixing the walls to put in a small wooden wall(s) to hold the sand at the end sea wall and next to the primary pipe outlet.
• Use the wall to protect and fill in the current hole in the wall, saving the wall and protecting the beach.
• Wall could be extended further up to protect children from risk of falling.
Solution 1

- Wooden wall or rock gabbion
Solutions – wooden wall
Solution 2 – Rock Gabions
Wall location
Solution 2
**Solutions**

- Low Cost.
- Contains current sand/captures future.
- Covers up sea wall failings to a point.
- Slows flooding to field through culvert through sand blocking.
- Will create higher sand ridge at boat ramp slowing flooding due to increased sand levels.
- Protects the sea wall and primary pipe infrastructure from undercutting due to increased flows.
- Will cover up sea wall over time.
Solutions

- Work to be done to prevent any further sand loss at the primary pipe.
- Sand could be built up to slow water flooding over the road.
- Will allow the coast to function naturally.
- Will save major money long term with the walls not needing replacing as much due to coastal erosion and liquefaction.
Main priority

Attachment A
Item 8.2

Today – what it could all look like/how can we make this work

Solutions – wooden wall