

Wainui Beach Management

Open Stakeholder Meeting

5 December 2012



Purpose

Update stakeholders on progress with Wainui Beach Management Plan

- What's been done to date
- Work in progress
- Where to from here



Agenda

- 1. Welcome
- 2. Apologies
- 3. Agenda and process for meeting
- 4. WBMS background & process to-date
- 5. KSF agreed to-date:
 - a. How beach works
 - b. Effectiveness of existing infrastructure
 - c. Cyclical vs long term erosion
 - d. WBMS Timeframes
 - e. Planning controls for further investigation
 - f. Criteria for assessing options
 - g. Options to be explored in detail
- 6. Where to from here
- 7. Wrap up



Meeting Process

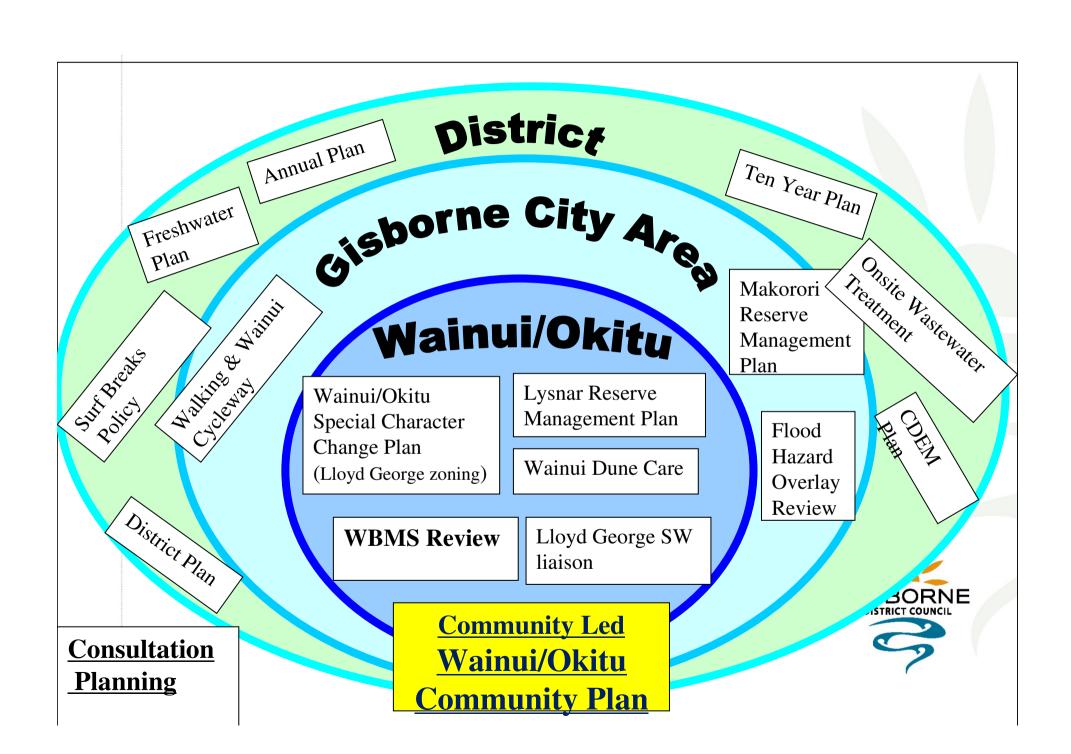
- A lot of information to present
- An opportunity after each segment:
 - Questions of clarification?
 - Comment?
 - Discussion?



WBMS background & process to-date

- Context
- WBMS Purpose
- Planning Structure
- Planning Process





WBMS Purpose

Sustainability

To develop a sustainable strategy that identifies the preferred management of coastal hazards affecting Wainui Beach

Broader Context

We will be taking into consideration the wider economic, environmental, social, recreational and cultural context

Broad Acceptance

Our goal is to achieve a WBMS that has broad acceptance amongst the community because it will provide a framework for future development and decisions related to Wainui Beach

Key Stakeholder Forum

KEY FUNCTIONS:

- 1. Make recommendations to GDC
- Establish & guide WG including: Agree work plan; Review reports & recommendations; provide feedback
 Conduit to stakeholder constituencies

FORUM MEMBERS NEED:

Commitment to fairness & transparency
Willingness to think together
Commitment to keeping informed
To be available (80% meetings)

Representative from each key stakeholder
Other stakeholders

Works to achieving consensus decisions

WBMS Key Stakeholder Forum Chaired by GDC Councillor Brian Wilson

Meets @ key milestones About each 4 – 6 weeks

Working Group

MEMBERS NEED:

Availability for meetings Accountability – tasks & timeframes Contribute key perspectives – complementary mix **Length of Wainui Beach involvement** Genuine commitment to build mutual understanding Commitment to achieving a consensus

Meetings up to 2-4 hrs every 1 - 3 wks

> **Chaired by GDC Review Manager Kevin Strongman**

Specialist expertise as required

Resourced by GDC

GISBORNE

Works to achieving consensus decisions

KEY FUNCTIONS:

- 1. Work within KSF guidance
- 2. Agree work plan with KSF
- 3. Tackle & resolve issues
- 4. Confirm with KSF @ key milestones
- 4. Develop options & make recommendations to KSF

5 - 7 members appointed by GDC **Endorsed by KSF**

WBMS Working Group

Working Group Membership

MEMBERS

- Anne Muir
- Chris Shaw
- Dick Calcott
- Ingrid Searancke
- John Logan
- Kevin Strongman (Chair)
- Peter Anderson
- Ronnie Amann

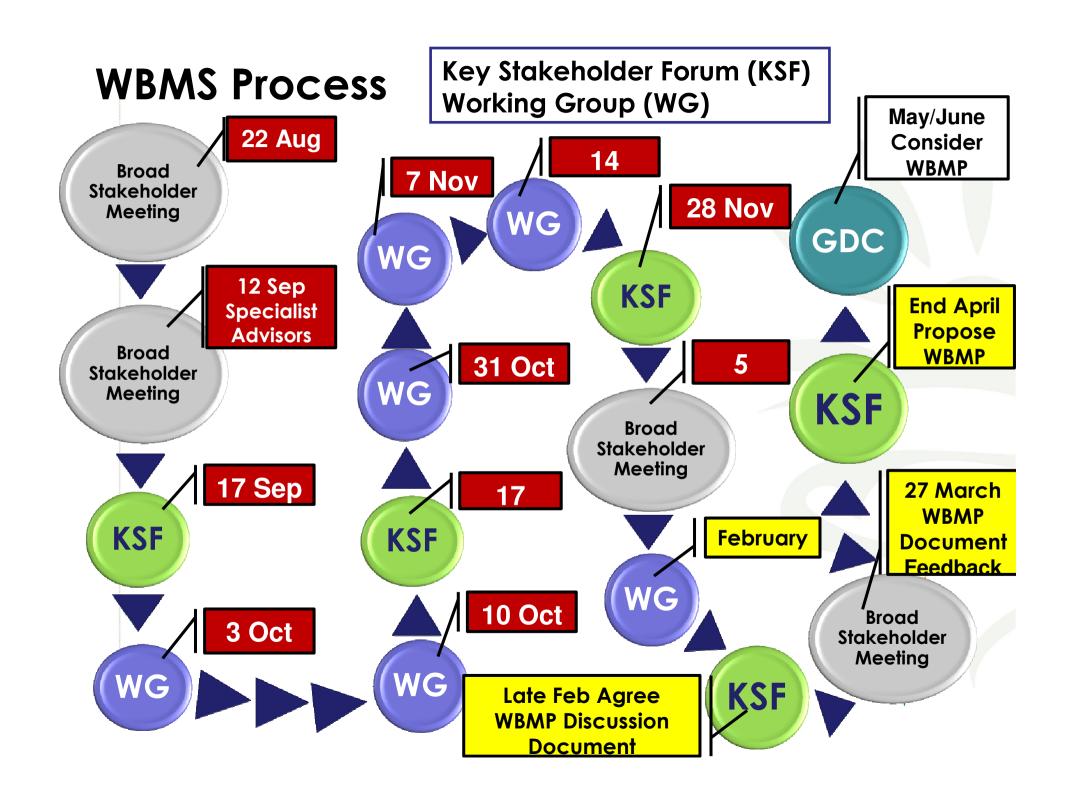
PERSPECTIVES COVERED

- Beachfront ratepayers
- Beachfront residents
- GDC
- Long term Wainui Beach
- Life stage 40s, 50s, 60s, 70+
- Ngati Oneone
- Previous WBMS Committee
- Surf Lifesaving
- Surfing
- Tuahine Crescent residents
- Wainui Coast Care Group
- Wainui residents (Nonbeachfront)
- Wainui/Okitu R&R Association
- Non-Wainui resident

Specialist Advisers

- Engineering Richard Reinen-Hamill
- Coastal Dr Amber Dunn
- Presentation to all stakeholders at beginning of WBMS process
- Ongoing advice & support
- GDC staff





Overview of Roles

Broader Stakeholder Meeting

Key Stakeholder Forum

Working Group

GDC Project Team

Feedback on proposed stakeholder engagement & communication process

Conduit to stakeholder constituencies **Undertakes** Review

Manages project; keeps on track

Feedback on KSF's WBMS

Reviews WG outputs

Tackles & resolve issues

Allocates resources

recommendations

Reaches

consensus on

proposed

Seeks feedback Services WG

Ideally, reaches consensus on proposed WBMS recommendations **WBMS** recs from WG **Options** and recs to KS Forum

Reviews each stage endorses next stage



PROCESS END-POINT WBMS RECOMMENDATIONS & DECISIONS

Working Group

Makes WBMS recs to KS Forum

Key Stakeholder Forum

Consultation with broader stakeholders

Makes WBMS recs to Council

Council

Considers WBMS
Recs & Resolves
to adopt any
changes to WBMS

Communicates
decisions taken incl.
rationale if contrary to
KSF Recs



Council Process & Timeline

May/June 2013

Council Meeting

- Considers recommendations
- Council decision re amendments to WBMS

June/July 2013

Council

Communicates
 Council decision
 to all
 stakeholders



- Questions of clarification?
- Comment?
- Discussion?



KSF has agreed the following:

- How beach works
- Effectiveness of existing infrastructure
- Cyclical vs long term erosion
- WBMS Timeframes
- Planning controls for further investigation
- Criteria for assessing options
- Options to be explored in detail



KSF has agreed how ALL BEACHES work

- No parts in nature only WHOLES beach is only part of a system
- Sand is meant to move & is a vital part of beaches' protective systems
- Moving sand offers natural protection
- Sand dunes act as a store of sand for beach
- Storms, rips, surges will strike & cause erosion

KSF has agreed how WAINUI BEACH Works

- Beach needs to considered as a whole (part of a broader whole) although geometric variances
- Beach (as modified by man) is thin sand veneer over a variable rocky basement with thin layer of cobbles for some parts of beach
- Beach considered to be mostly closed
- Generally sand movement is "in and out"
 & along beach
- Cyclic cut & fill of sand occurring along beach from storm events
- Southern end more sand movement than northern end in Southerly storms
- Large storm events have caused significant erosion
- Astronomical (tidal) cycles coincide with significant erosion
- Sea level rise occurring at faster rate than tectonic uplift

- Questions of clarification?
- Comment?
- Discussion?



Effectiveness of Existing Infrastructure 1

KSF agreed following re GROYNES:

- Hamanatua Stream training wall works in terms of controlling stream
- Southern groynes 2, 3 & 4 buried since training wall constructed and are ineffective
- •Re effectiveness/impact of groyne 27 at Southern end – periodically causes beach scouring to the north locally, lowering the beach sand levels, (eddy effect) and adds to the backshore erosion pressure.

(Note: Expert advice is that groyne 27 is not having an impact on Stockroute area)



Effectiveness of Existing Infrastructure 2

KSF agreed following re SEAWALLS:

- May help protect properties directly behind them
- Negative in terms of sand on beach
- cause scouring



Effectiveness of Existing Infrastructure 3

KSF agreed following re RIPRAP:

- Helps protect properties directly behind them
- Improved performance (relative to seawall) on coastal processes enhanced by flatter slope and porosity
- Positive (relative to seawall) in terms of sand on beach (does not prevent sand coming back) minimal scouring
- Take a bigger footprint on the beach (relative to seawall)
- Noted that end of Lloyd George Rd (23) is best example - built to specific Dave Peacock specifications

Effectiveness of Existing Infrastructure 4 KSF agreed following re GABIONS:

- Work short term property protection at toe
- Similar characteristics to a seawall
- Because of height are overtopped
- Most of time buried therefore minimal effect on natural sand flow
- Have a limited effect in some storm situations
- Can use small rock (that may be more readily available)

- Questions of clarification?
- Comment?
- Discussion?



Cyclical vs Long Term Erosion

KSF view re LONG TERM EROSION:

- 1. There is cyclical erosion with storm events and long term erosion
- 2.Predominant effect of waves from the South which, in conjunction with lowering of the reef, impacts on beach rotation
- 3.But also there is cyclical erosion from NE swell
- 4.If one holds the control point between beach and cliff it has the potential to slow the long term land retreat but will not prevent long term rotation of the beach
- 5.Tuaheni point is eroding over time (about 1 2 metres per decade landward retreat ref Gibb 2001)
- 6.There is long term erosion of Makorori Point that may increase sand movement to the north and loss from the beach system
- 7.Also noting: When there is a lot of stormwater runoff from land, which permanently erodes property, the beach takes a long time to rebuild.



- Questions of clarification?
- Comment?
- Discussion?



WBMS TIMEFRAME

KSF agreed following re TIMEFRAMES:

Now: 0 - 20 years

Mid: 20 – 50 years

Long Term: 50 – 100 years



Planning Controls

KSF agreed following Planning Controls for further investigation:

- Review Hazard Zones
- Consider options to guide decisions on applications for new development in hazard zones e.g.
 - Where any increase in development is & isn't acceptable
 - Where relocatability is acceptable & design assessment processes
- Consider best practice in other districts
- Consider how long term retreat may be supported by Council places of the property of the pro



- Questions of clarification?
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