# Meeting Notes: Ruamāhanga Whaitua Committee

## Deliberations Phase 3 - Workshop 8

## July 1 2015 4:00pm – 8:00pm

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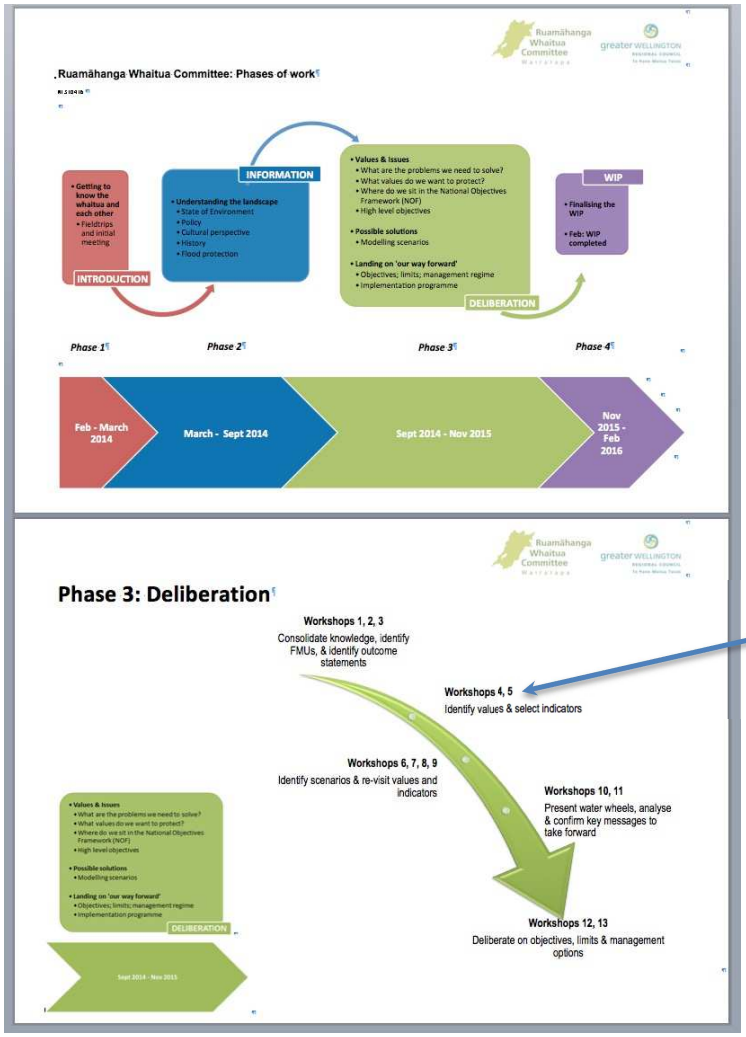

**Summary** This report summarises notes from a workshop of the Ruamāhanga Whaitua Committee held July 1 2015 at Greytown Community Library.

**Contents** These notes contain the following:



## A Workshop Attendees

**Workshop Attendees** Mike Ashby, Aidan Bichan, Mike Birch, Andy Duncan, Esther Dijkstra, Peter Gawith, David Holmes, Chris Laidlaw, Colin Olds, Ra Smith, Rebecca Fox (part)

Kat Banyard, Mike Grace, Emily Greenberg, Russell Kawana, Horipo Rimene, Michelle Rush, Alastair Smaill, Andrew Stewart, Natasha Tomic.

Ton Snelder, Adam Daigneault

**Apologies:** Vanessa Tipoki, Philip Palmer, Brigitte De Barletta

**Resignation:** Siobhan Garlic

## B Workshop Purpose

**Workshop Purpose** The workshop purpose was to identify attributes of Ruamahanga Whaitua values.

Review and confirm the attribute set for: ***Te Mana o Ruamāhanga - Mauri, Habitat and Biodiversity*** value grouping; and

Generate a set of attributes for: ***Ruamāhanga Economic Use, Resilience and Prosperity*** value grouping.

The first purpose was achieved, with the project team to process all the comments gathered and provide a finalized set of attributes back to RWC for confirmation; and

The second purpose was not achieved: instead committee members took the opportunity to ask further questions about the characteristics of economic attributes from presenter Adam Daigneault, in preparation for identifying attributes at the next workshop.

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## C Workshop Actions and Next Steps (General Business)

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**Actions**

a) Shared workspace
Kat reminded RWC members to make sure that they signed up to the workspace, as eventually all committee business will be conducted through this portal rather than via email.

b) Agriculture Newsletter
It was agreed to take the opportunity of an article on the RWC and its work to date for inclusion in the Ag newsletter. Action: Peter / Alastair to make a decision about what to focus this article on.

c) Assessment of Gladstone meeting results against value groupings
This was asked about: A project team member to be assigned to make sure that this is done.

d) Revision of attribute set for ***Mauri, Habitat and Biodiversity*** value grouping
Project Team to complete for final RWC confirmation.

e) Public forum – person to add to the list of potential speakers
Michael Woodcock has requested an audience with the RWC.

f) Timing and format of public forum
Put this on the agenda for an upcoming RWC workshop.

g) Draft list of values

Project Team member to be assigned to make sure these are placed on the Whaitua public website.

h) Economics papers
Circulate relevant papers to the Ruamāhanga Whaitua Committee.

i) 16/17 July meeting Hurunui o Rangi marae wananga
An opportunity for Whaitua to engage with kaitiaki.

j) Kopuaranga Community Engagement meeting:
Ra, Colin, Aidan, Rebecca and David will attend.

k) Chris Laidlaw Chairmanship of GWRC
Chris confirmed that he hopes to continue his involvement with RWC. Committee members congratulated him on his appointment.

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# D Workshop Notes – Review of attributes for *Mauri, Habitat and Biodiversity* value grouping

**Summary**

RWC members considered the compulsory attributes from the NPS FW relevant to the ***Mauri, Habitat and Biodiversity*** value grouping.

A gap analysis was then conducted, looking at the attributes set as developed so far, alongside all the dimensions of the ***Mauri, Habitat and Biodiversity*** value grouping. The attribute set as it stands at July 1 is included in Appendix A.

The gap analysis results are included in Appendix B.

Additional attributes to fill the identified gaps were workshopped and reported back. The results of this are in Appendix C below

The full list of existing and new attributes were then reviewed alongside criteria for a good quality attribute. This exercise was done in two groups. The results of this are in Appendix D below.

A final exercise, mapping the attribute set to water body types was not completed.

ENDS

# Appendix A Attributes at July 1 for Mauri, Habitat & Biodiversity

**Te Mana o Ruamāhanga; Mauri, Habitat and Biodiversity**

*The unique identity of our rivers, lakes and streams*
*Their flow, shape, form and colour*
*The life force of the water, the geology, plants, fish and animals.*

*Te Mana o Ruamāhanga includes;*

- *Riparian systems*
- *Wetlands*
- *Indigenous fish and in-stream habitat*
- *Water quality and quantity (flow, depth)*
- *Fish passage and spawning places*
- *Wairarapa Moana*
- *The Conservation Estate.*

***RWC Suggested Attributes***

| ***Potential Attributes for Te Mana o Ruamāhanga; Mauri, Habitat and Biodiversity*** | ***Group*** |
|---|---|
| Diversity of species | 1 |
| Water Clarity – Black disc method to identify suspended sediment | 1 |
| Water Clarity – shuffle method to identify deposited sediment | 1 |
| The nutrient loading of the catchment – N, P, $O_2$ | 1 |
| Fish – community diversity; abundance; sensitive species; Fish Biotic Index | 2 |
| Primary Production in the water body – too slippery to walk | 3 |
| Primary Production in the water body – thumb test | 3 |
| Primary Production in the water body – blockage by rooted weeds (macrophytes) | 3 |
| Primary Production in the water body – visual clarity in Lake | 3 |
| Physical habitat area – instream habitat space, e.g. habitat curve for different species | 4 |
| Temperature | 4 |
| Diversity of wetland species | 4 |
| Flow attenuation in wetland | 4 |

***Compulsory Attribute NPS FW 2014, Appendix 2***

| **Attribute (title only given here)** | **Applies to** |
|---|---|
| Phytoplankton | Lakes |
| Total nitrogen | Lakes |
| Total phosphorous | Lakes |
| Periphyton | Rivers |
| Nitrate | Rivers |
| Ammonia | Rivers |
| Dissolved Oxygen | Rivers |
| eColi | Rivers |
| Cyanobacteria | Lakes and Lake Fed Rivers |

## Appendix B Gaps identified in attributes to cover the Mauri, Biodiversity and Habitat value set

**The following dimensions of the value set were seen as not sufficiently covered by the draft attribute set as it stands at July 1 2015.**

- Bird habitat
- Ki uta ki tai – hinterlands to the sea
- Primary senses – what we smell, see, hear, feel – appreciation
- Area of tress, length and quality/diversity of riparian planting – measure of riparian systems and change / no change.
- Species diversity of plants including in wetlands and riparian margins
- Health of the species eg. Eels, fish
- Land use type and distribution / diversity of cover including wetland area

## Appendix C Additional attributes suggested to fill in the gaps

*(Ra, Aiden, David, Andy)*

**Oxygen continuous**

**Land use – Bird Habitat**

| **Primary senses** | **Modeling** | **Comm** |
|---|---|---|
| - hearing | - water flow | - normalised senses – tracker |
| - smell | - periphyton | - site specs |
| - feel | - | - site range |
| | | - site character |

*(Mike B. Esther, Colin)*

**Riparian**

- Length, width
- Quality
    - Species
    - Density
    - Diversity (and type – grass/ weed / native / exotic)
    - Age

*(Peter, Mike A, Chris)*

**Blind person test**

- Can walk to river guided by sound of water and birds (no smell), must be scratched by riparian branches and bit by insects and not a good place for a picnic there is and the water is COLD Brrrr

***Why useful?***

Because a common person can understand it – community based

## Appendix D Attribute Review

Participants discussed and reviewed each attribute against the following criteria:


The results of that review are below:

*(Ton's group)*
Health of Species

- Suitable for consumption
- Condition scare
- Fish counts
- Spawing success
- Measurable
- Less direct measure

**Instream habitat morphology**

- pool – riffle
- natural character vs flood management
- flow curves for habitat

* uncertain how to measure this but it would be valuable to assess trade-off with flood management

**Temperature** (Links to flow management)

- Measurable
- Need to reduce
- Measured continuously
- Flows up – base flow
- Riparian shading

**Diversity of Wetland Species** * extent of wetland could be a sufficient proxy

- W.C.I.!
    - Need to establish baseline

- Less direct
- Not immediately measurable

**Flow attenuation in a catchment**

- Proportion of peak flow
- Relative size of base flow
- Base flow Index
- Sustain high base flow
  - Measurable, affordable, we are already doing it

**Diversity: Species**

M.C.I.

- # sensitive species
- Presence/absence
  - # = sensitive compared to # = tolerant species

  - Measurable/affordable
  - Instream/avian/terrestrial

*(Ra/Al's Group)*

Biodiversity

**Mauri**

fish — fish biotic index – indigo species – different places

Baselines — Sensitive species – indicator species

Current — health/environment

Context

macro Inv - **indicator species**
- **indigenous species**/shifting measures

plants - land type | - history |
- wetland | - oral history | context
- margins | - site aspects |

Birds - time

**The Mix**

Biodiversity — species blinded by the average of clarity — - destruction of habitat

Shuffle test measurement and
- sedimentation
- limit setting
- relationship with fish MCI
- Total tonnes of sediment
- How much silt settles

Black disc and flows
- suspended sediment
- catchment leads ki uta ki tai
- factoring in normal natural events

Instream habitat (wetted area of waterway) flow regimes

- bugs can feed
- habitat curve – die off
– minimum levels of water
- critical places – rapid and pool
- pool vs rapid

**NCI for rivers**

Bio div
- Geomorph

- pools, raffles and runs
- how many should you have?
- measure what is there

**Trade off**
**Flood vs Natural**

- Hydraulic habitat

Health of species Mauri

N, P, O 2
P

- widening to lakes 02 (**Wairarapa Eyes**)
- widening to rivers

Primary Production
**temperature**

- Algae biomass
- % cover - recreation
- chlorophyll A
- water quality, habitat
- periphyton and algae related

**No**

Visual clarity (Black disc) – Lake
- water column

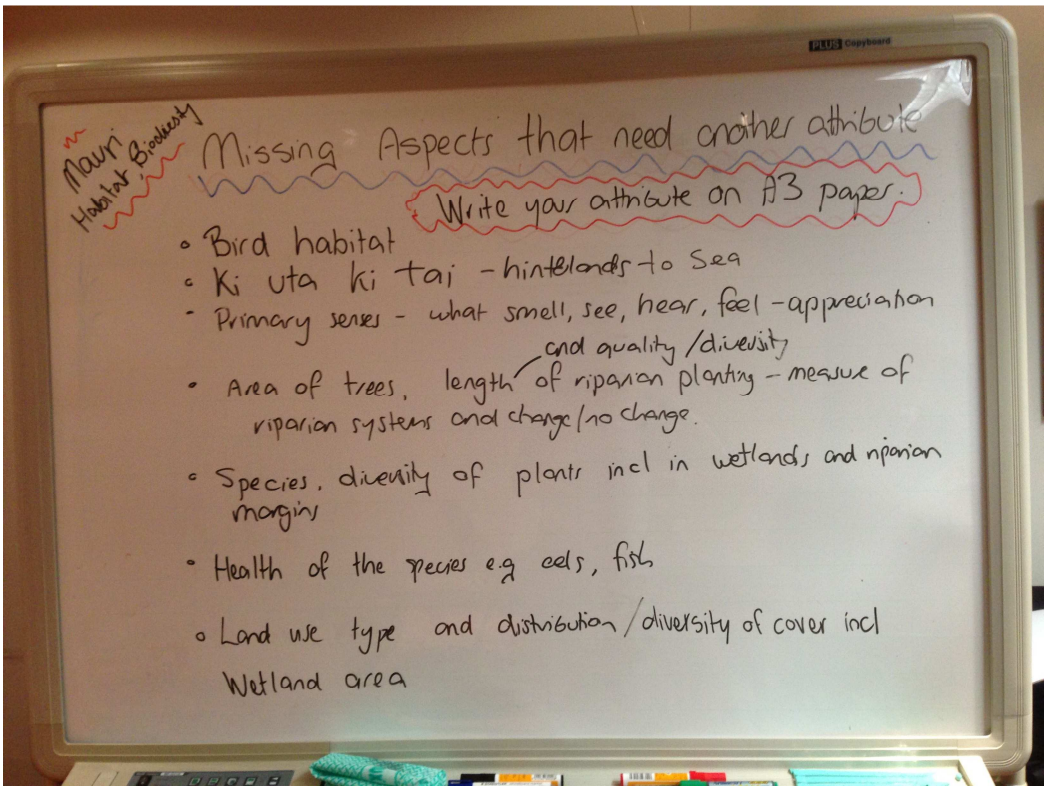
- Algae biomass
- dangerous
- Other Algae
- natural
- good - some

-
cynobacteria

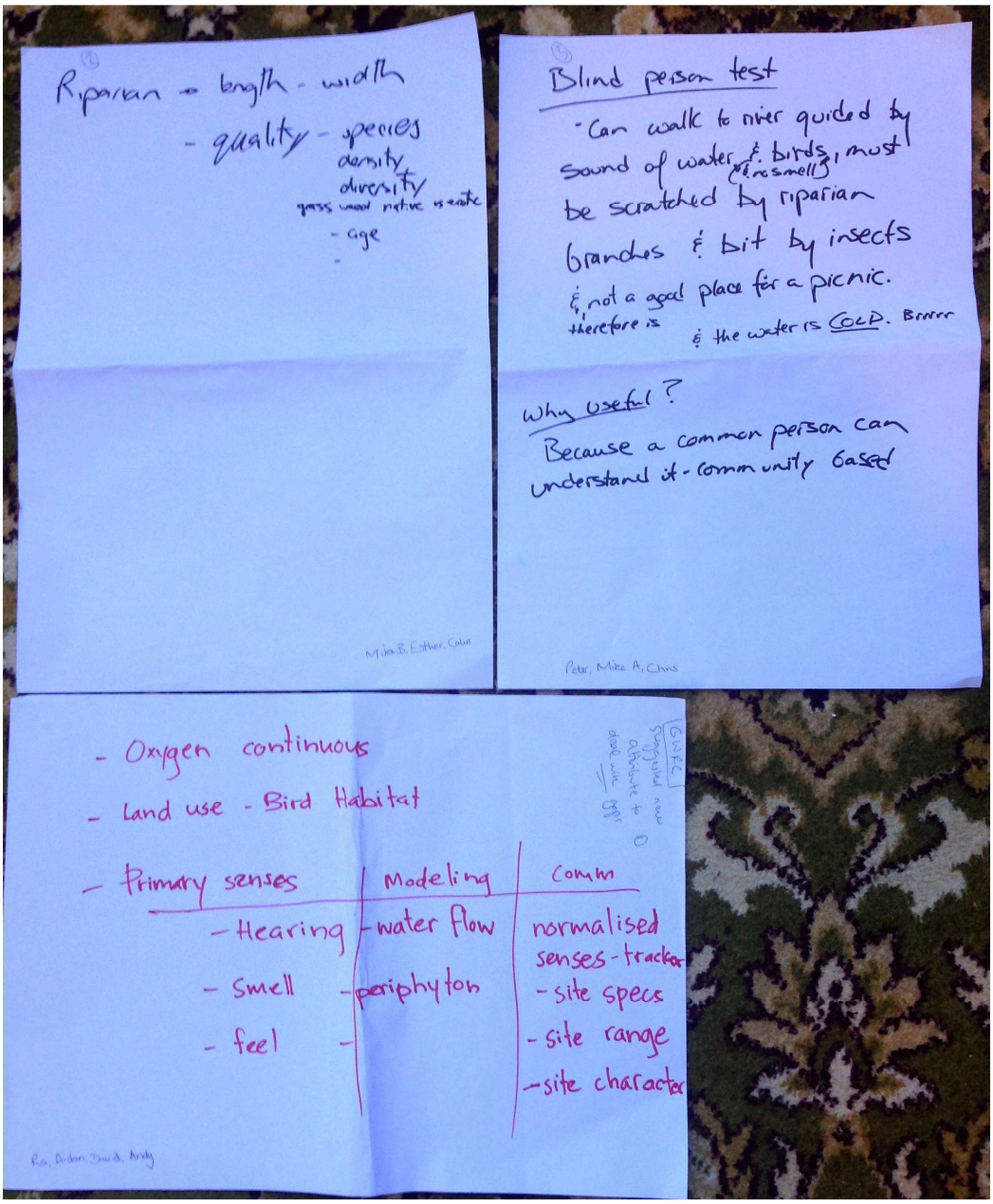
Macrophytes - measured
- against amount needed

ENDS

## Appendix E Workshop Photographs

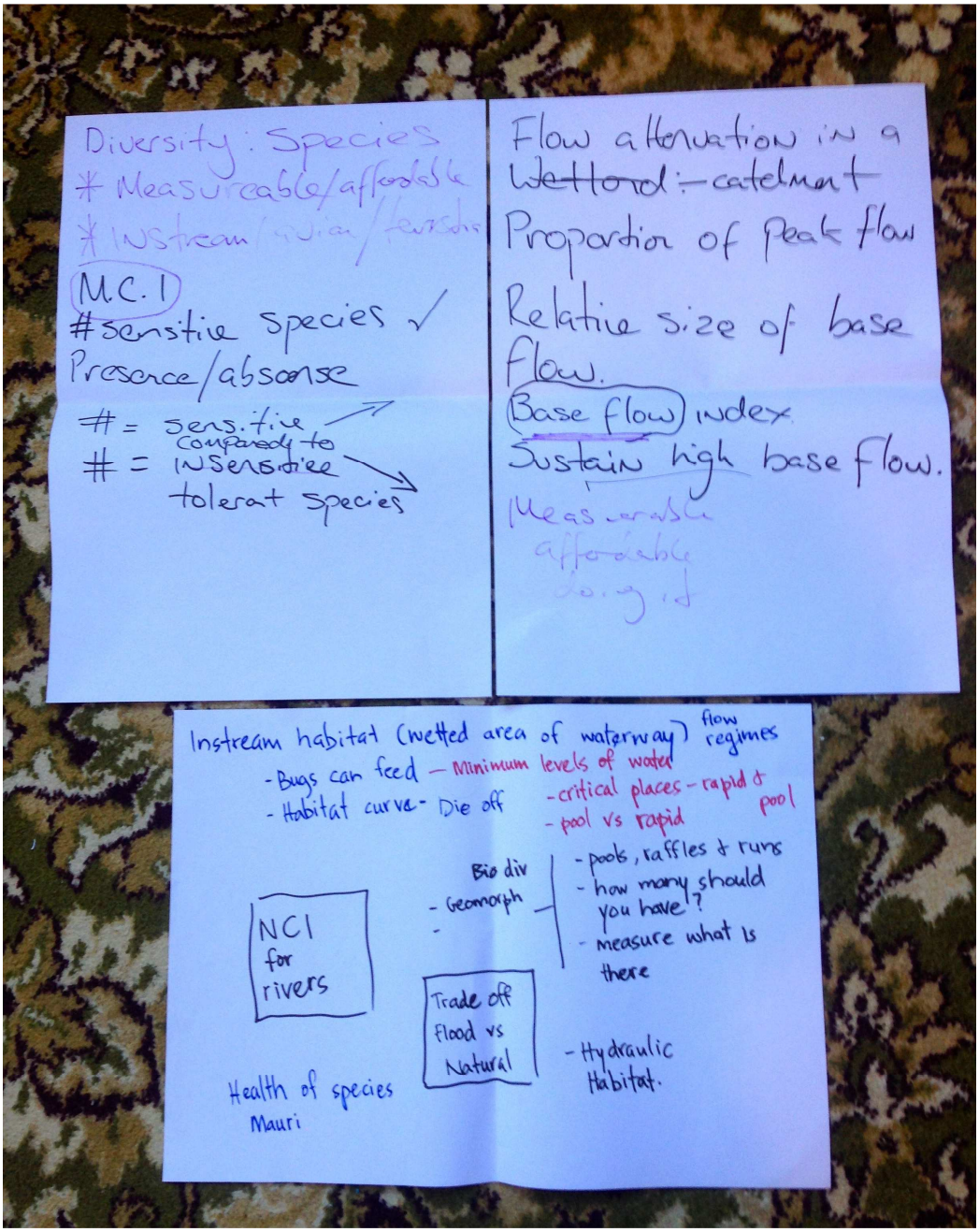



Elements of Mauri, Habitat and Biodiversity value group not satisfactorily reflected in one or more of the July 1 set of attributes.




Suggested New Attributes


Attributes Review Session Notes

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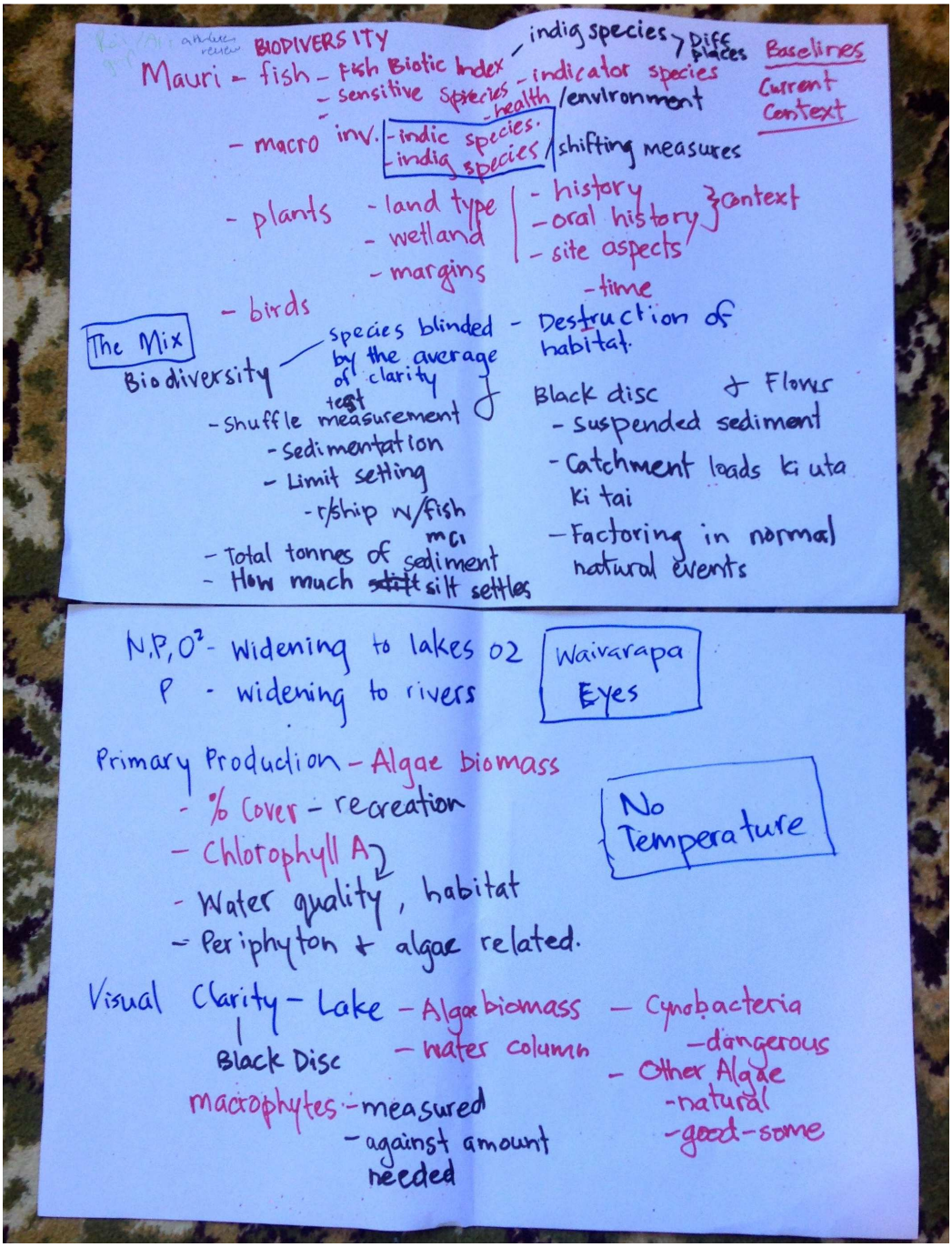


Attributes Review Session Notes