



Land Use and Water Quality Project
A collaborative project between Environment Canterbury, primary sector and non-governmental organisations.

Catchment workshop 2
29th Sept 2010

Purpose

The Purpose of the catchment workshops is to **inform** and **support** the development of a preferred approach to managing the cumulative impact of nutrients on water quality within the catchment by:

- taking into consideration the link between land, people and water and the four well beings: Environmental, Economic, Social and Cultural and
- using a multi-stakeholder deliberative approach that enhances collective learning of all the participants

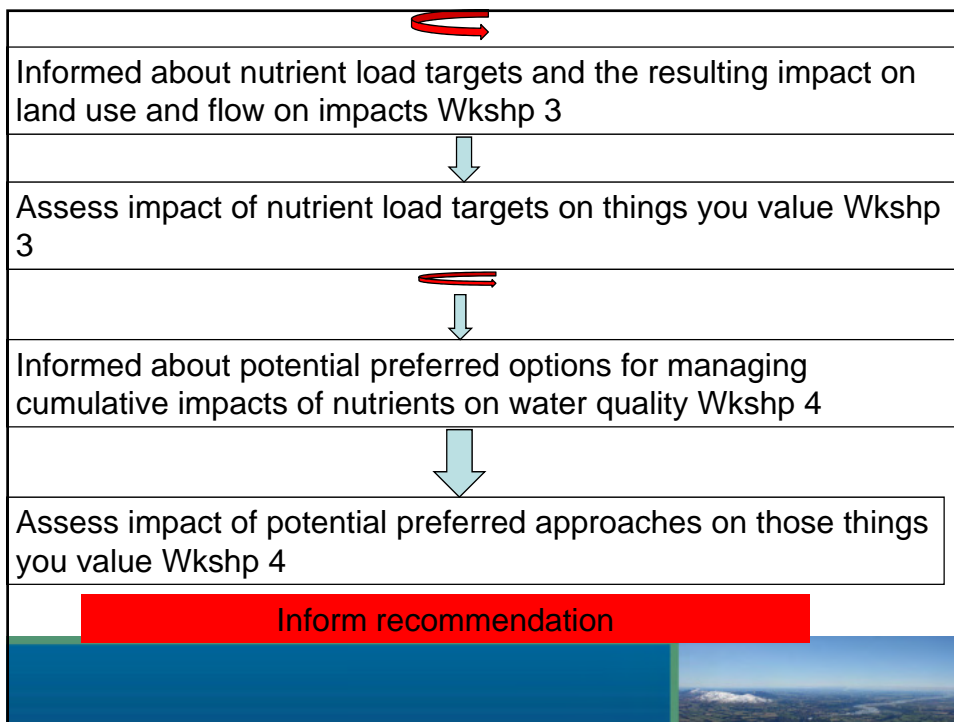
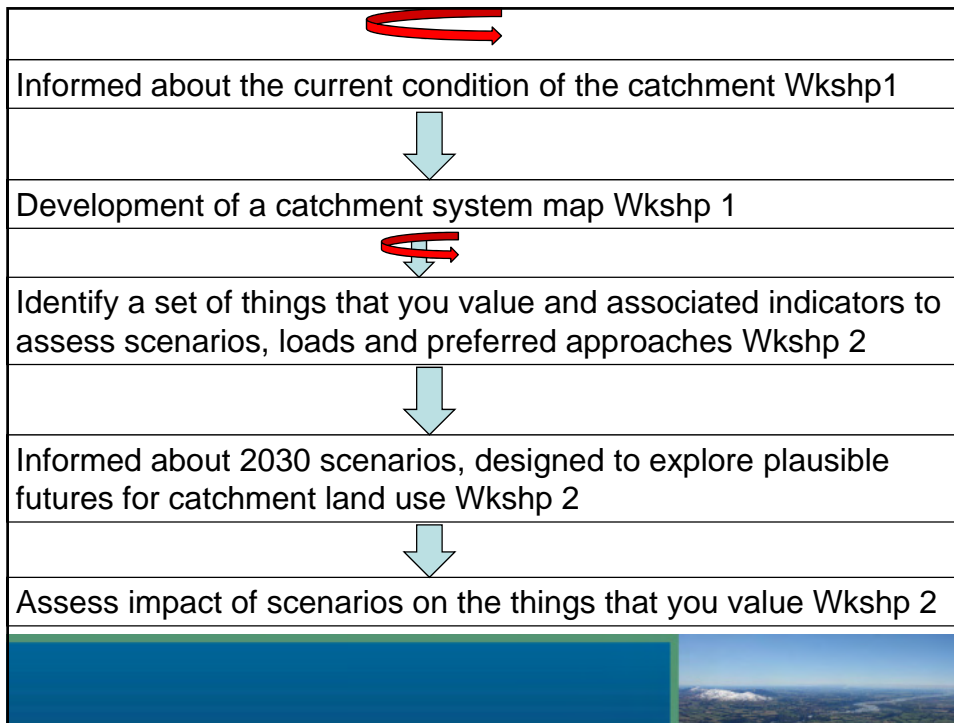


Stakeholders

- The workshops will involve a range of stakeholders chosen from within and outside of the community to represent a range of viewpoints. Criteria for choice are those impacted by water quality state, those impacted by the approaches put in place to manage water quality and those that care.
- Role of the stakeholder groups is to inform a preferred approach recommendation
- Role of the science group is to inform the stakeholders and to use the stakeholder deliberations to identify and fill gaps in knowledge, and to guide future analysis
- The recommendation(s), endorsed by the project governance group, will be presented to the commissioners, and to the ECan Directors. The Commissioners are the decision makers

Stakeholders participating

- Iwi
 - Primary sector: pastoral, arable and horticulture
 - Rural Woman
 - Rural advisors and suppliers
 - Environmental NGOs
 - Recreationists
 - Energy
 - Tourism
 - Hurunui District council
 - Hurunui Zone committee
- Each group irrespective of numbers participating has equal weighting



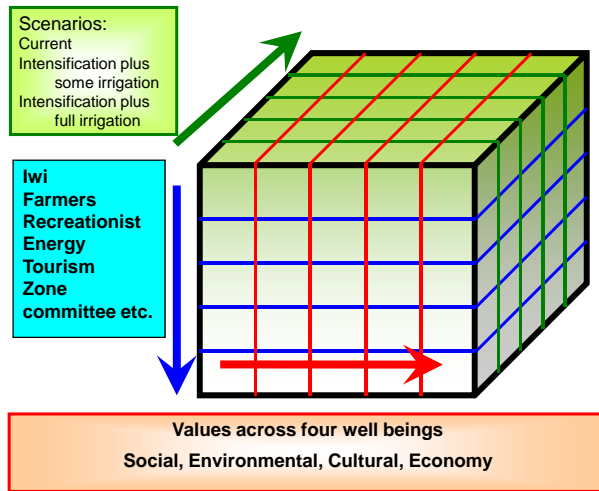
Workshop 2

Deliberating the impact of the current state of land and water and two future land use intensification scenarios:

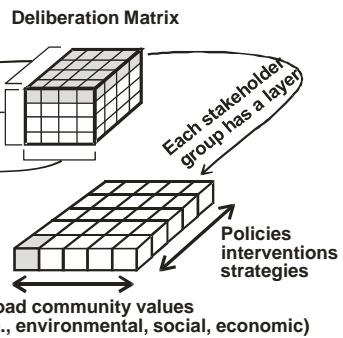
- Verify the system diagram
- The stakeholder groups will identify a set of things they value that they will use to assess the impact of the three states
- The science group will present the stakeholders with information on the current state of land use and two future intensification scenarios
- The stakeholder groups will then make a judgement on the acceptability of the three states using their values
- The reasons for the choice will be recorded
- This information will allow the different stakeholder judgements to be made transparent and the process allows for in depth conversations that will inform the design of preferred approaches.

Presentations

Organising the deliberation



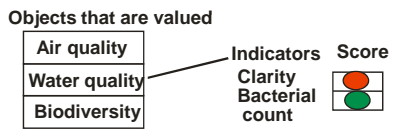
- Establish:**
- 1) Decisions or policies and strategies to address the problem
 - 2) What stakeholders are involved
 - 3) The broad community values



Each stakeholder selects what indicators
 The indicators will be stakeholder specific

Conduct the deliberation
 - evaluate status quo and various management options

All the groups share their assessment and
 - look for commonality in assessment
 - trade-offs between stakeholder groups



Deliberation tables

- In stakeholder groups
- Task 1 :
 - Assign weights to each of the four well beings
 - Environment
 - Social
 - Cultural
 - Economy/Economic activity
 - Express as a percentage e.g.

ENV [25%]	SOC [25%]	Cult [10%]	ECO [40%]
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Task 2:

For each well being, discuss what things you value that you would want to know the impact of future scenarios, nutrient load targets and potential preferred approaches, choose up to 5 per well being,

Environment [25%]				
C u r r e n t s i t u a t i o n	Value	Indicators	Assessment	
	1. Water Quality	1. 2. 3.		<input type="checkbox"/>
	2. Biodiversity	1. 2. 3.		<input type="checkbox"/>
		1. 2. 3. [...%]		<input type="checkbox"/>
		1. 2. 3. [...%]		<input type="checkbox"/>
		1. 2. 3. [...%]		<input type="checkbox"/>
		1. 2. 3. [...%]		<input type="checkbox"/>

Task 3:

Discuss the relative importance your group places on each of the values.

Assign each value a weighting expressed as a percentage.

C u r r e n t s i t u a t i o n	Environment [25%]		
	Value	Indicators	Assessment
1.	Water Quality [15%]		<input type="checkbox"/>
2.	Biodiversity [10%]		<input type="checkbox"/>
3.	[...%]		<input type="checkbox"/>
4.	[...%]		<input type="checkbox"/>
5.	[...%]		<input type="checkbox"/>
6.	[...%]		<input type="checkbox"/>
Overall ENV			

Task 4:

For each value you have assigned a weighting, what indicators could be used to fully describe the impact of the scenarios, nutrient load targets and potential preferred approaches on that value – complete the 'indicators' columns max 3 per value

C u r r e n t s i t u a t i o n	Environment [25%]		
	Value	Indicators	Assessment
1.	Water Quality [15%]	1. Sediment 2. Coloration 3. Algae	<input type="checkbox"/>
2.	Biodiversity [10%]	1. Native Flora 2. Native Fauna 3. Pest fish	<input type="checkbox"/>
3.	[...%]		<input type="checkbox"/>
4.	[...%]		<input type="checkbox"/>
5.	[...%]		<input type="checkbox"/>
6.	[...%]		<input type="checkbox"/>
Overall ENV			

Task 5:

Make an assessment on the state of the indicator

This is where a perceived judgement is made by the individual stakeholder group

This is also where science can inform the state of the indicator

C u r r e n t s i t u a t i o n	Environment [25%]		
	Value	Indicators	Assessment
1.	Water Quality [15%]	1. Sediment 2. Coloration 3. Algae	<div style="display: flex; justify-content: space-around;"> ● ● ● </div>
2.	Biodiversity [10%]	1. Native Flora 2. Native Fauna 3. Pest fish	<div style="display: flex; justify-content: space-around;"> ● ● ● </div>
3.	[...%]		
4.	[...%]		
5.	[...%]		
6.	[...%]		
Overall ENV			

Task 6:

Finally, give a final assessment regarding what your group considers the overall state on each value – use the same colour codes as above.

Reasons for judgement will be captured

C u r r e n t s i t u a t i o n	Environment [25%]		
	Value	Indicators	Assessment
1.	Water Quality [15%]	1. Sediment 2. Coloration 3. Algae	<div style="display: flex; justify-content: space-around;"> ● ● ● ● </div>
2.	Biodiversity [10%]	1. Native Flora 2. Native Fauna 3. Pest fish	<div style="display: flex; justify-content: space-around;"> ● ● ● ● </div>
3.	[...%]		
4.	[...%]		
5.	[...%]		
6.	[...%]		
Overall ENV			

STAKEHOLDER GROUP: NGO *Forest of Whiwhi + Jans Interchange* **BLACK**

(Source: O'Connor / Small / Waddell & Eichelberger)

COMMUNITY OUTCOMES	ENVIRONMENT 1		ECONOMY 2		QUALITY OF LIFE 3		POLITICS & CULTURE 4	
WEIGHTING BY OUTCOME CLASS	65%		10%		15%		25%	
<i>Working with our Communities for a Better Environment</i> SETTING PRIORITIES FOR THESE OBJECTS [Task 1]: Decide weighting (%) for Outcome Classes (ENV, ECON, QUALIFE, POL-CULT) so that sum of weightings is 100% [Task 2]: Give weights (%) to each Object within Outcome Class [Task 3]: Declare level of satisfaction with the current situation for each Object [Task 4]: Declare the level of satisfaction attained under Rule 11	Air Quality [... %]	[Blue]	Farm/Ag Sector Productivity [... %]	[Blue]	Safety and security [... %]	[Blue]	Equity [... %]	[Red]
	Land and Soil [... %]	[Yellow]	Societal Prosperity [... %]	[Blue]	Health [... %]	[Red]	Civic Participation [... %]	[Green]
	Water Quality & Quantity [... %]	[Red]	Employment [... %]	[Blue]	Paid work [... %]	[Blue]	Treaty of Waitangi [... %]	[Green]
	Natural Heritage & Landscape [... %]	[Green]	Transport Infrastructures [... %]	[Blue]	Recreation & Leisure [... %]	[Yellow]	Political/Social Trust [... %]	[Red]
	Biodiversity [... %]	[Green]	Tourism [... %]	[Yellow]	Knowledge & Skills [... %]	[Green]	Human Rights [... %]	[Green]
	Biosecurity [... %]	[Yellow]	(Other Sector Prosperity/Productivity) [... %]	[Blue]	Social Connectedness [... %]	[Green]	International Treaties [... %]	[Green]
	Kaitiakitanga /stewardship [... %]	[Green]			Housing [... %]	[Blue]	Identity & Status [... %]	[Green]
	Overall ENV		Overall ECON		Overall QUALIFE		Overall POL-CULT	
	Result of Rule 11 Actual Situation		Result of Rule 11 Actual Situation		Result of Rule 11 Actual Situation		Result of Rule 11 Actual Situation	

COLOUR KEY FOR JUDGEMENTS : [RED] = Bad or Worse ; [YELLOW] = Moderate or no big deal ; [GREEN] = Good/Better ; [BLUE] = Doesn't matter

Sharing the information

- Repeat the exercise for the current situation and the two future scenarios
- All stakeholder groups will present their assessments to all participants and will reveal their judgements and the reasons
- This information is captured and used to identify knowledge gaps, common positions and differences to inform the development of nutrient loads

