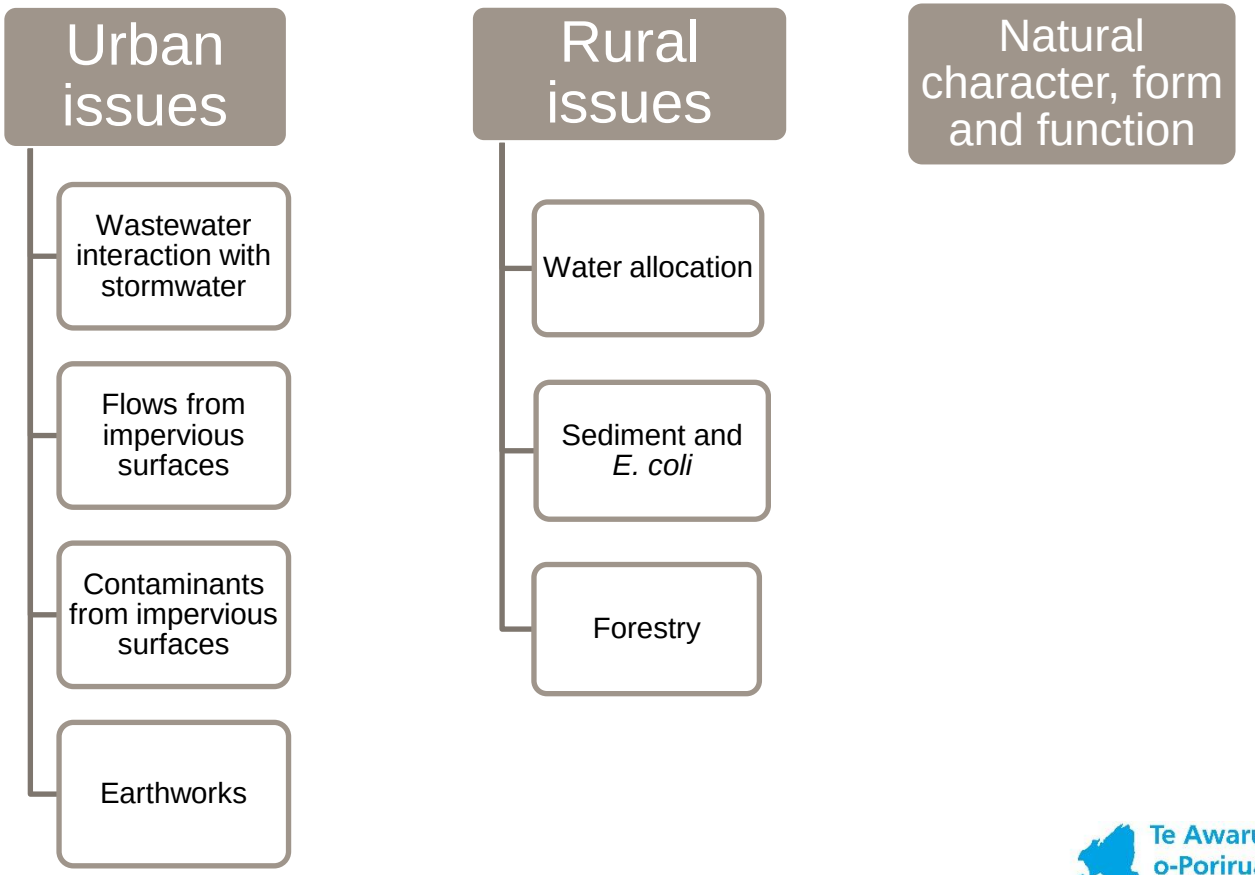
Draft WIP structure

For discussion 04.10.2018

Te Awarua-o-Porirua Whaitua Committee

greater WELLINGTON REGIONAL COUNCIL
Te Pane Matua Taiao

Draft WIP structure



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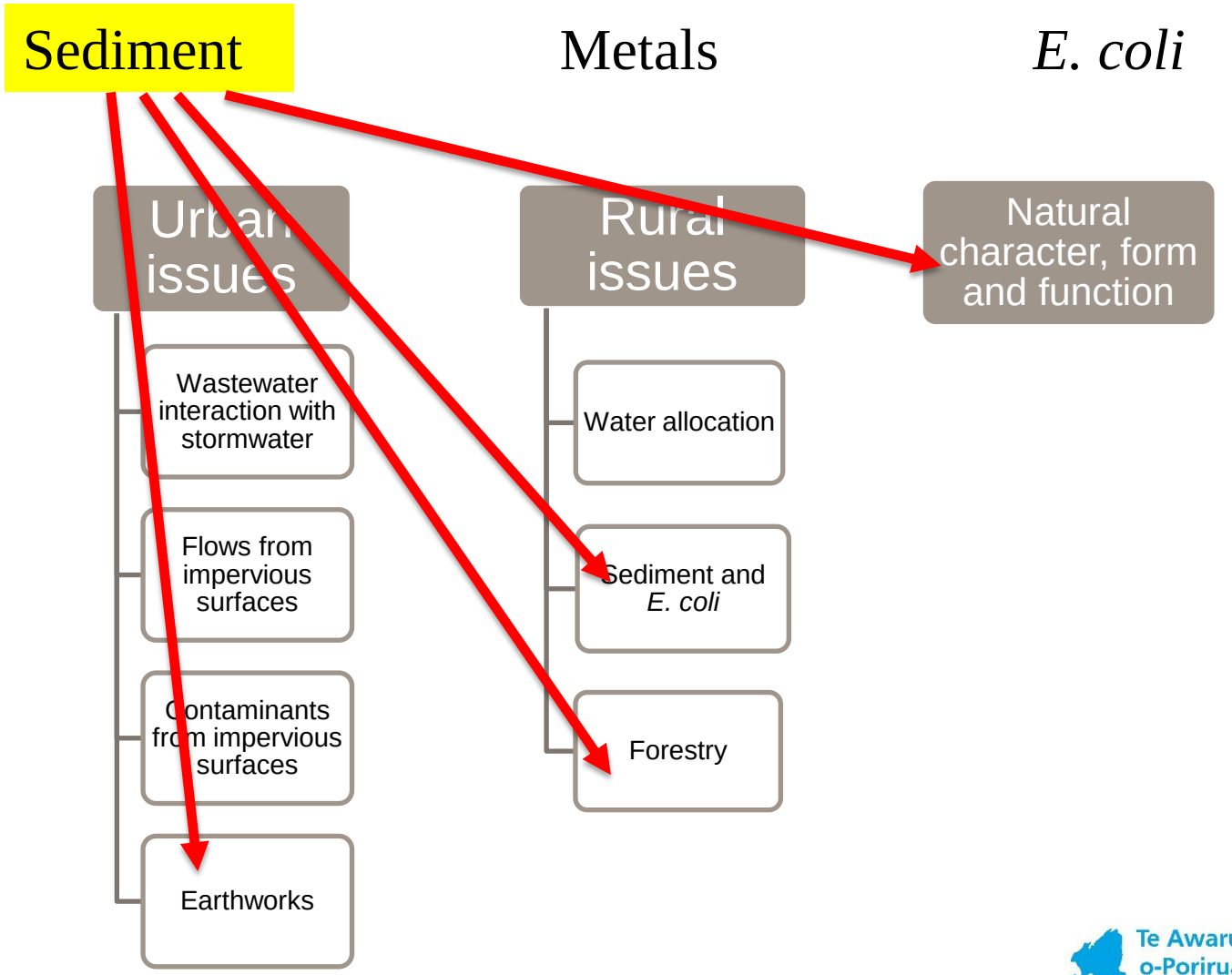

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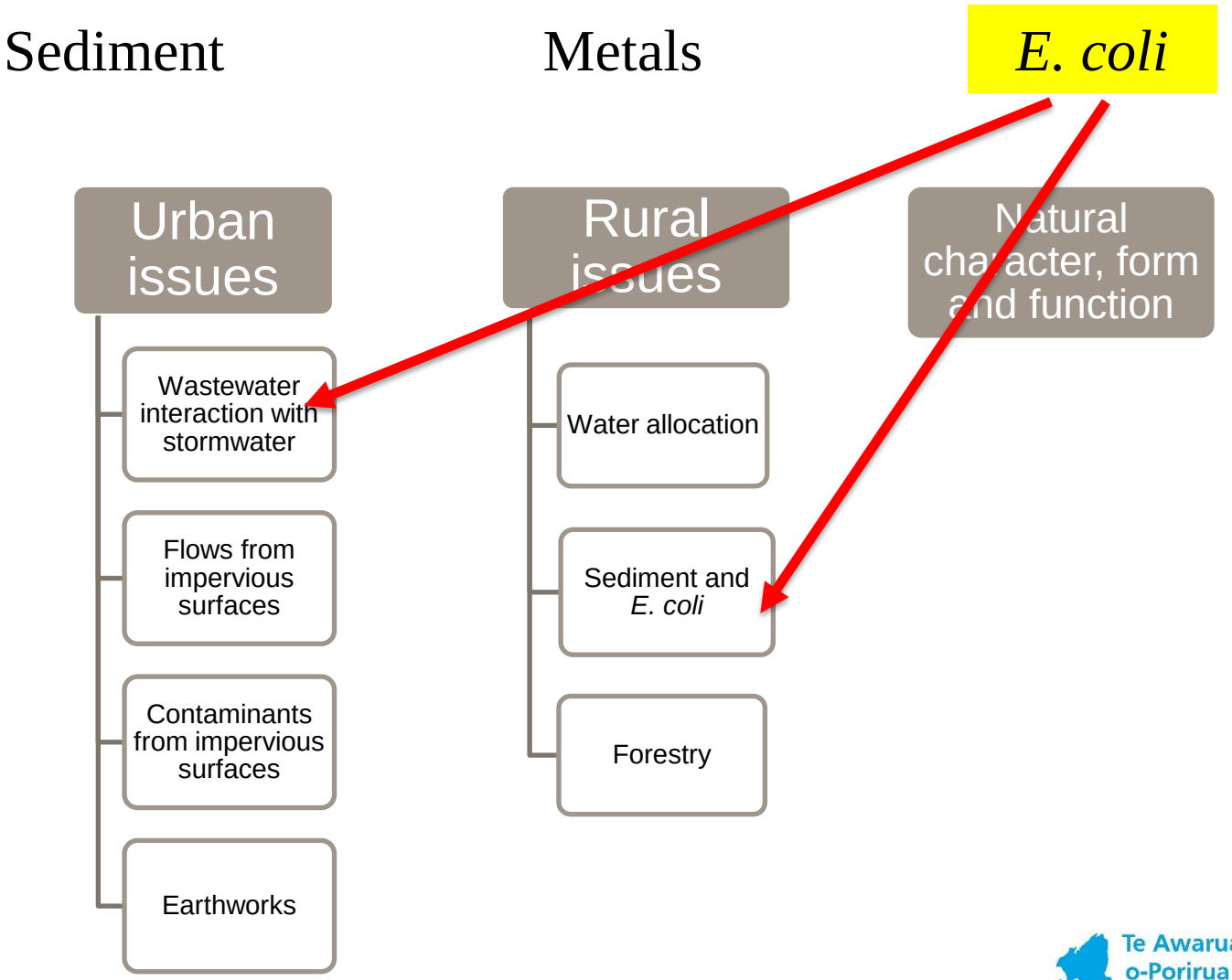

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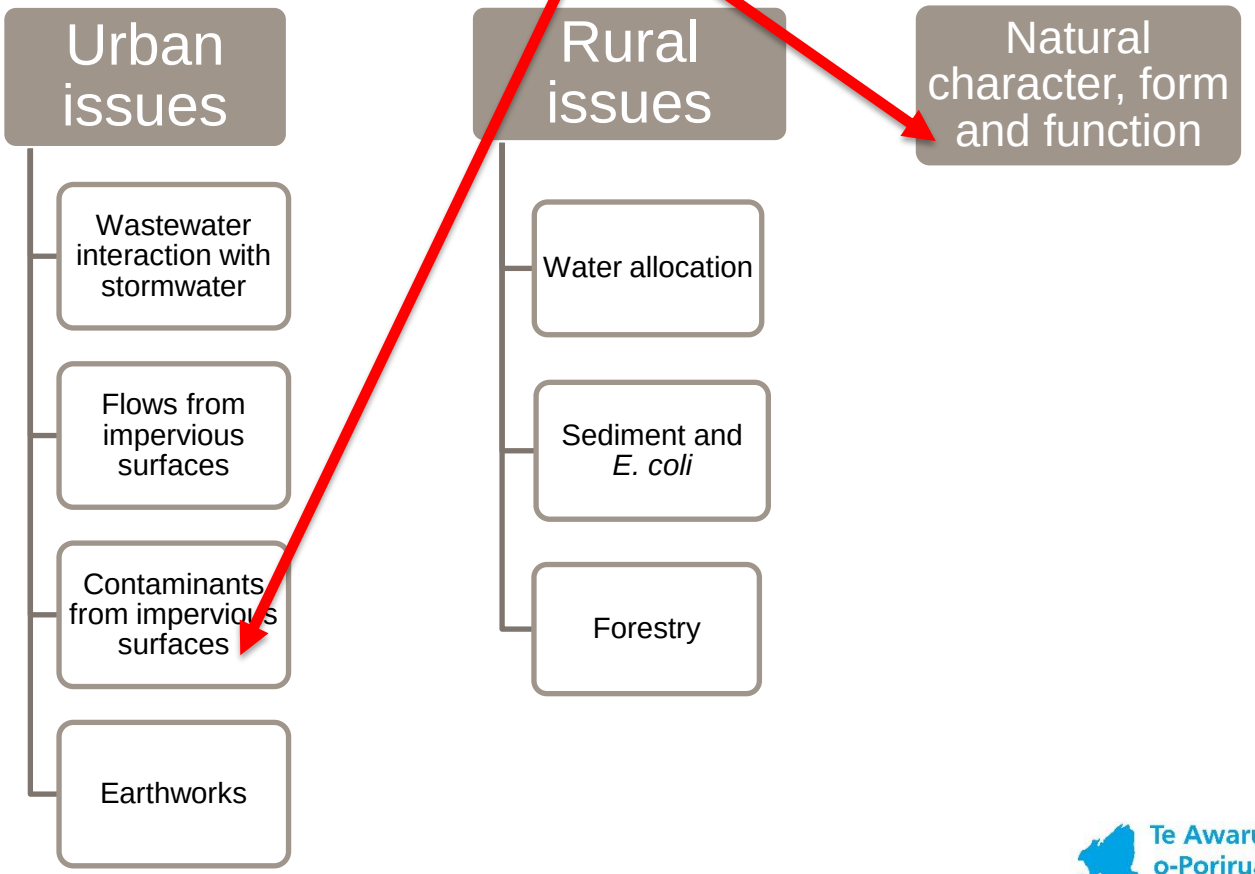
Draft WIP structure

Sediment

Metals

E. coli



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Managing contaminants in Te Awarua-o-Porirua Whaitua

For discussion 04.10.2018

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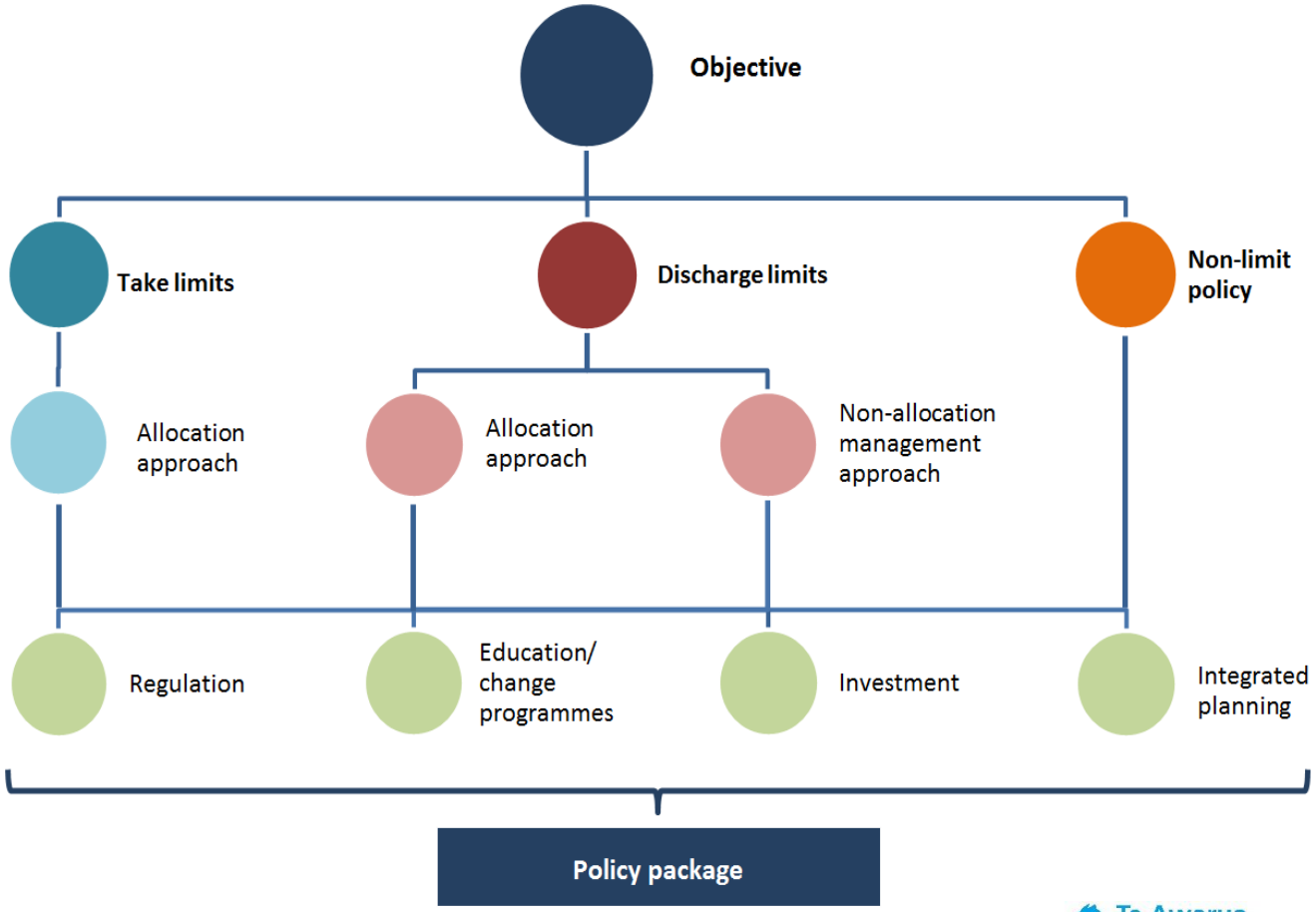
Policy packages



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Weekend workshop – things not to forget

- Other toxicants - Ammonia, Nitrate
- Periphyton and macro algae – nutrient limits
- Peak flows
- Ecosystem health- MCI, native fish, habitat, fish passage, spawning areas
- Water allocation
- Objectives for enterococci and metals in harbour

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Managing sediment

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Sediment objectives

Sedimentation rate

- The ~~annual~~ average sedimentation rate is less than 2mm per year ~~[and no more than double the natural sedimentation rate]~~ in the Pauatahanui Arm (assessed as the rolling average over the most recent five years of data).
- The ~~annual~~ average sedimentation rate is less than [1mm ~~or 2mm]~~ per year ~~[and no more than double the natural sedimentation rate]~~ in the Onepoto Arm (assessed as the rolling average over the most recent five years of data).

Muddiness objectives

- Sediment mud content does not exceed 20% in the intertidal sediments and should not increase from current state.
- Spatial extent of soft mud shall not exceed 15% of the available intertidal area and no increase in soft mud area from current state.

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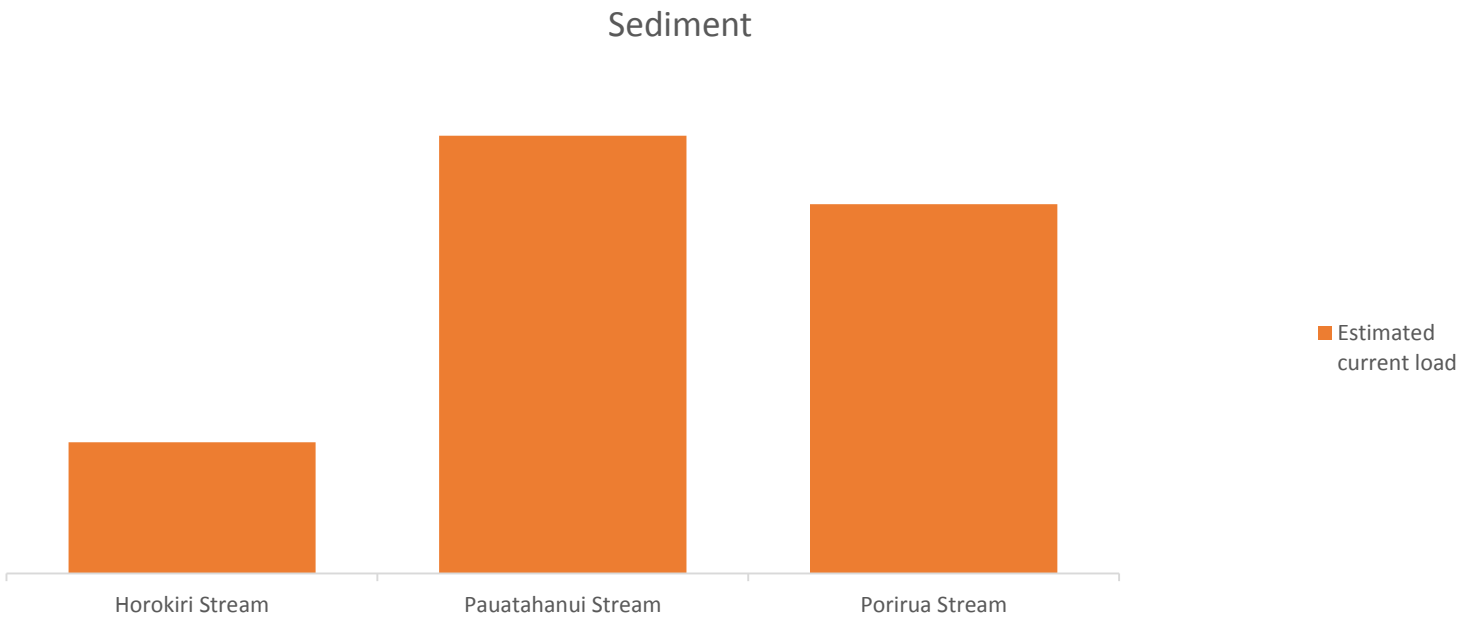
Quantum of change required for Sediment in the catchments



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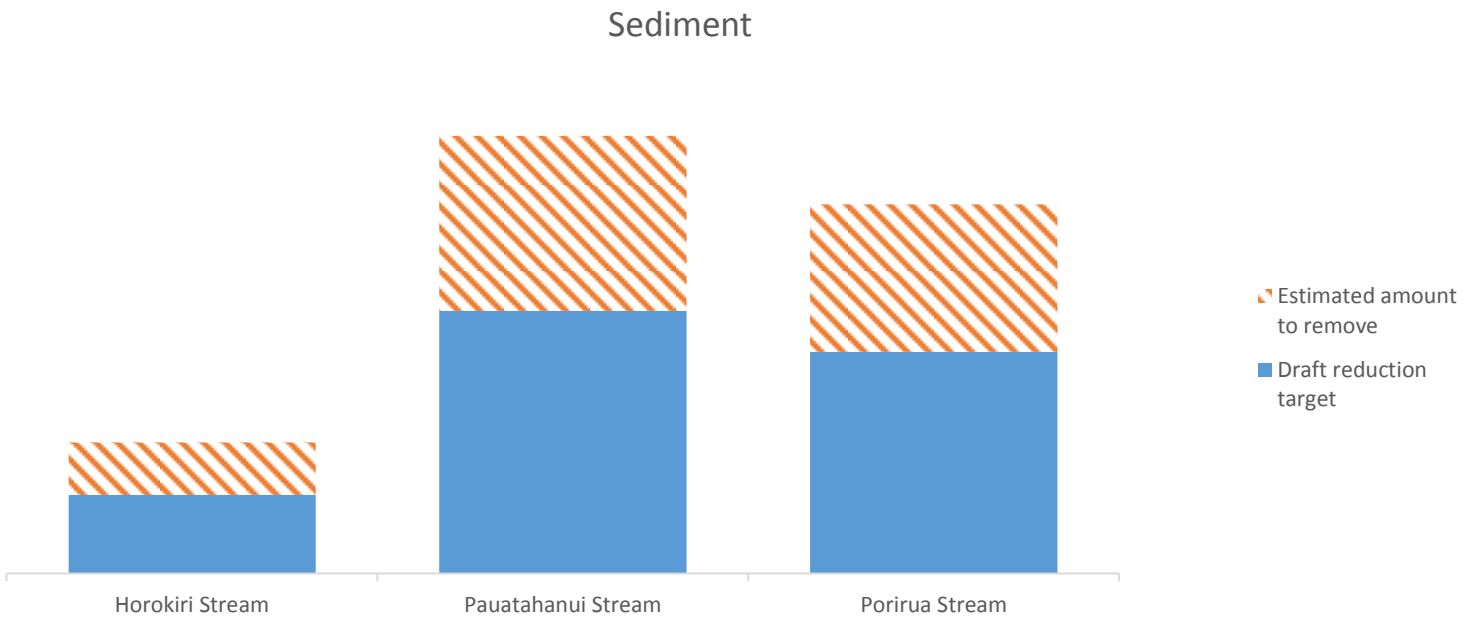

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Sediment policies

Policy theme: Rural	
Policy tool	**Commentary**
Regulation: Stock exclusion	Amend new PNRP rules for exclusion to protect smaller streams, particularly in non-hill country Look for opportunities to implement when change in land use (e.g. to rural residential or lifestyle block)
Regulation: Take and use of water	Amend PNRP rules for permitted for 'general use' (e.g. not stock and domestic water) take to: - Check reasonableness of current PA take volumes - Review requirements to cease at minimum flows Currently relatively permissive PA rule compared to other regions
Investment: Retirement of steep slopes/afforestation	Look for opportunity to increase investment and advisory activity in rural land use space, including to: - Increase retirement and planting rates - Produce better integrated farm planning services Option: Is the Committee interested in regulating land use activities that are at high risk of generating sediment?
Integrated planning: Farm, life-style block or property scale planning and implementation	
Integrated planning: Sub-catchment community groups	Assist in set up and support of sub-catchment scale group processes to meet sub-catchment limits, particularly for sediment Can identify most efficient opportunities for sediment mitigations across sub-catchment and more

BIG CHANGE!

NEW!

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Options for reducing sediment on erosion prone land

- Retirement/planting of land
  - where (prioritisation of high yield areas vs everywhere)
  - how (regulation vs voluntary farm plans)

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Options for reducing stream bank erosion

- Riparian planting
  - How?
  - Where?
- Stock access
  - How?
  - Where?
- Slowing water down – retirement
  - How?
  - Where?

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Options for reducing sedimentation from earth disturbing activities

- Earthworks and Forestry - Are the current rules strong enough to get the types of reductions needed?

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Managing *E. coli*

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Key points

- Freshwater objectives set for *E. coli*
- Objectives for enterococci still to be confirmed
- Limits and targets are set as concentrations
- Non-allocation approach – but discharge standards for point sources

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Key points

- Different policy approaches for urban and rural
- Rural – retirement, stock exclusion, septic tanks, sub-catchment groups
- Urban – managing overflows, network upgrades and cross connections, planning alignment

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Any clarification questions?

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Questions for Committee consideration

- Are you happy with the direction of the policy approaches and the rural/urban split?
- What is missing from the policy approach?

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Managing urban contaminants

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The water quality problem

- Zinc and copper a surrogate for (other) urban contaminants
- Managing zinc and copper largely deals with other contaminants
- Main sources from buildings, roofs and roads
- Acute (immediate) and chronic (gradual) toxic effects

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The water quality problem

- Urban problem
- Urban streams and localised parts of Harbour esp. Onepoto Harbour entrance

The management challenge

- No regulation for managing urban contaminants
- Building and infrastructure legacy
- Poor stormwater management practice and culture
- Greenfield developments on the horizon – increasing loads

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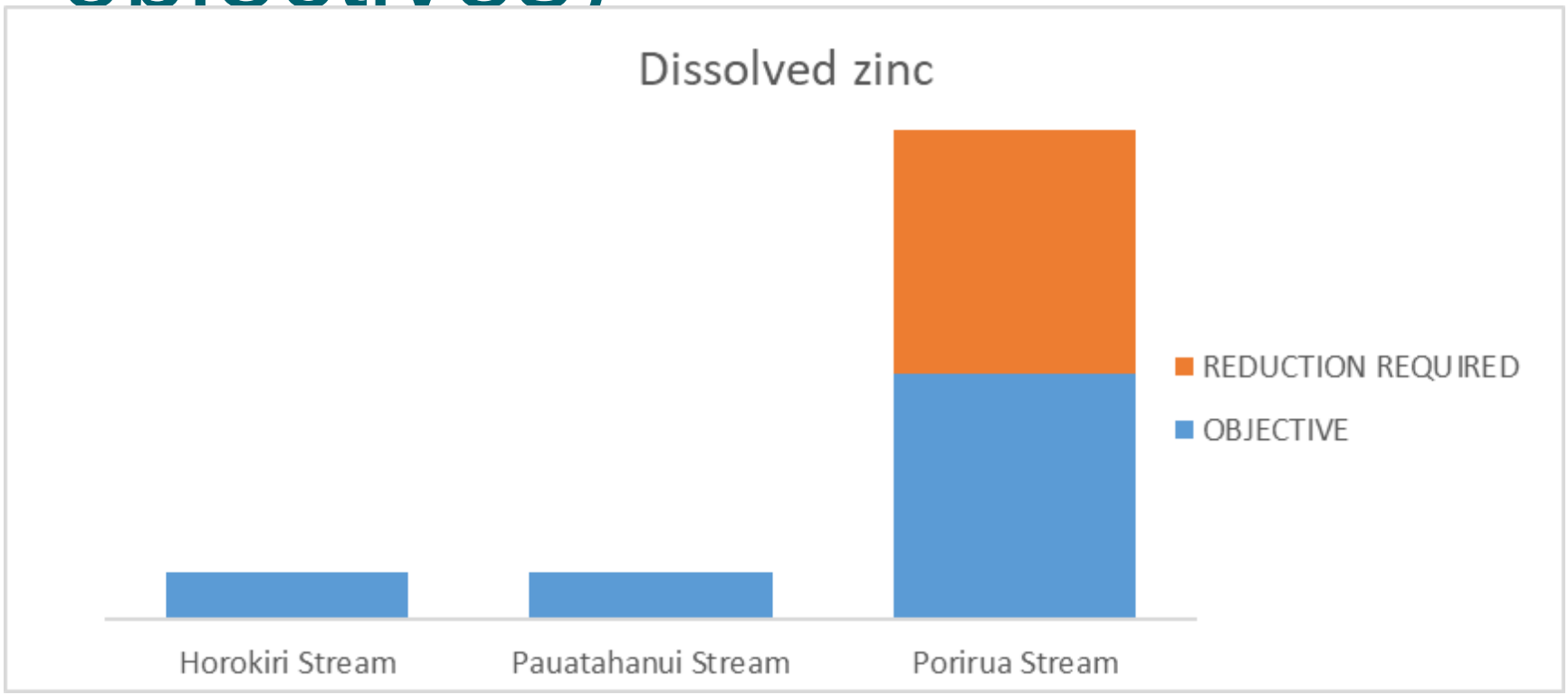
Step 1: Already done

- Objectives for dissolved metals in freshwater environment (completed for letter band attribute states)
- Objectives for total sediment metal concentrations in harbour (tbc)

Step 2: Reduction in heavy metals required (from objectives)



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Step 3: How?

Section 7 of paper

- WSUD including stormwater treatment in greenfield development
- Limit greenfield development locations
- Load reductions achievable from brownfield development – therefore incentivise infill and brownfield

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Step 3 cont: How Other opportunities –

TACKLING ZINC AND COPPER DIRECTLY

Section 8 of paper

- Improve capability re WSUD
- Ban copper brake pads
- Replace roofs
- Change bylaws and Building Act
- Develop and require industry good practice
- Integrated planning

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