

Politics, Pondweed and the Park – Managing Contaminants and Reusing Resources to Create Te Pā Harakeke

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The pond

Location and history

Nelson Society of Modellers

Surrounding recreational assets



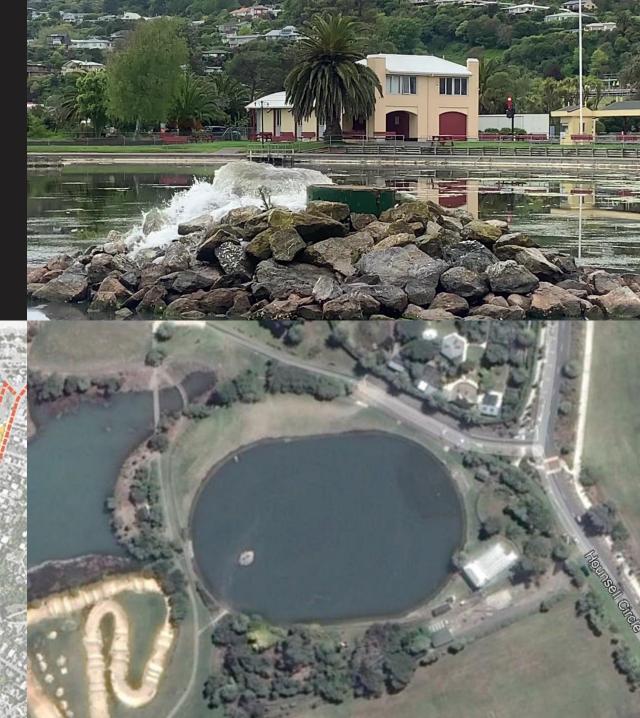
The stormwater discharge solution

Stormwater utilities network

Overflow options assessment

Increased sediments





The conundrum

politics and the pondweed

Algae and weeds

Clean up attempts

Trials and options



More politics, but a new solution - a park?

An alternative option

Vision for the new park

Tidal inundation, climate change, coastal erosion





The conundrum - contaminated land

Contaminated land (HAIL)

Pond sediments

Old landfill site



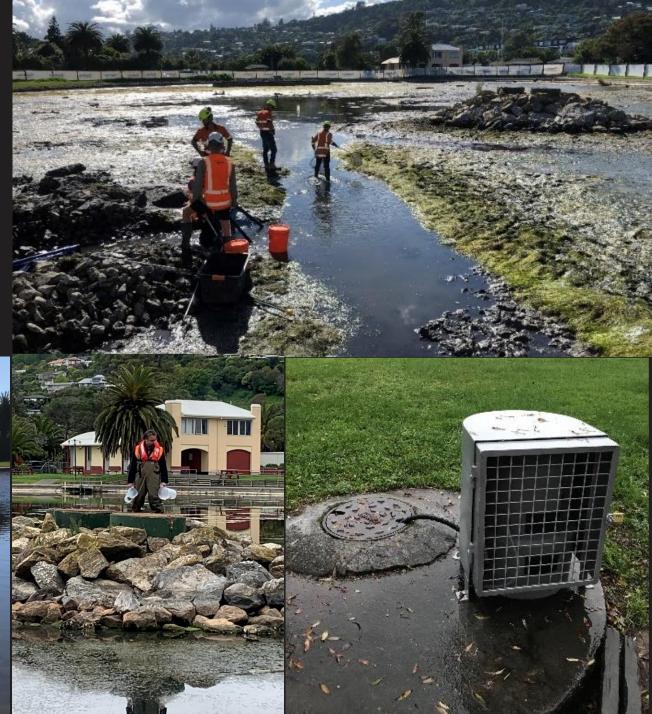
The challenges - monitoring contaminants

Stormwater analysis

Pond sludge analysis

Contaminated soils analysis





Smart solutions – in situ remediation

Sludge management options

Encasing contaminants

Earthworks and re use of surplus soils



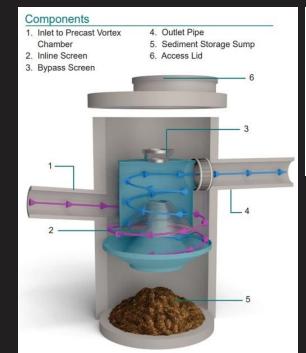


Smart solutions – stormwater treatment

Stormwater treatment

Downstream Defender

Managing more HAIL material



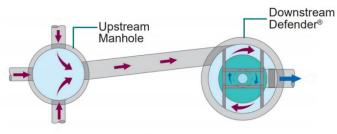


Fig.3a The Downstream Defender® in an online configuration.

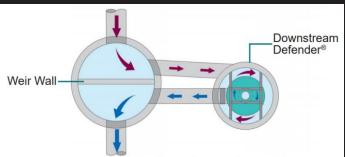
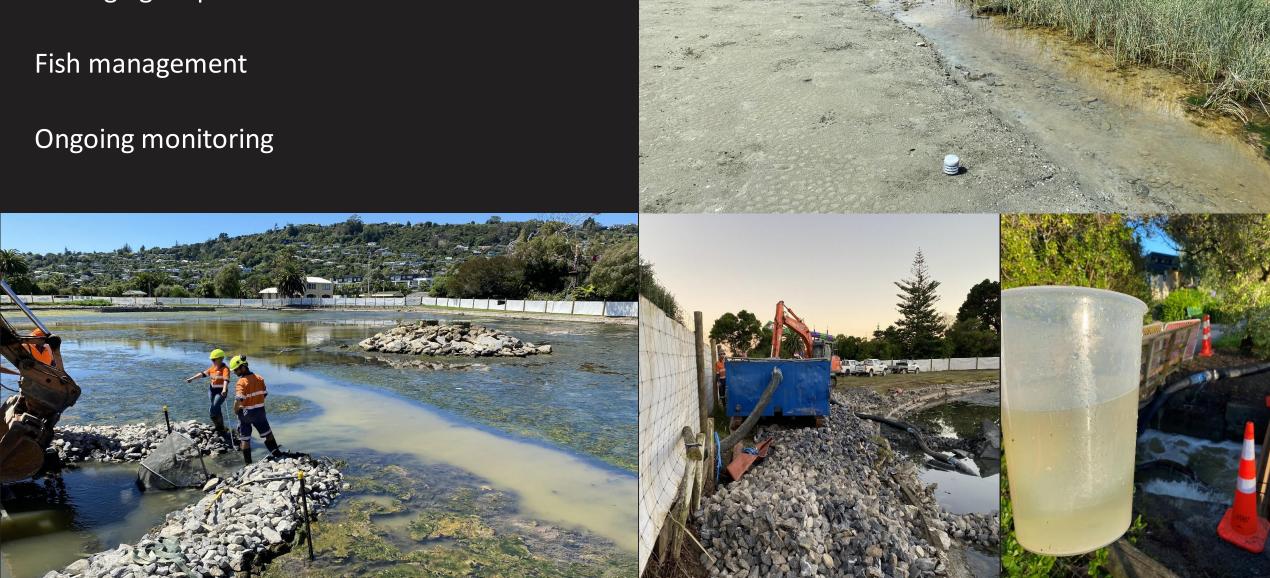


Fig.3b The Downstream Defender® in an offline configuration.



More challenges - construction impacts

Managing suspended solids



Reuse of resources

Park furniture

Sustainable outcomes

Cost savings



Te Pā Harakeke

Lessons learnt...

- Utilities infrastructure and public reserves can work really well together.
- Don't be afraid to change direction mid project.
- Look for opportunities to reuse resources across projects.
- Take time to fully consider the alternatives.
- Early collaboration in planning and design can make a difference.





Thank you and any questions?





The old, polluted Modellers' Pond, and the new Te Pā Harakeke reserve (photo credit Rowan Findley)

