



Duvauchelle Wastewater Options for new Consent

Long Term Solution
Briefing for ITE Committee
Mike Bourke 2 November 2018



Treatment Plant

Harbour Outfall

Consent History

- Plant commissioned in 1985
- Current “short term” consent granted 31 January 2011
 - Expires 28 January 2023
- Working Party set up in 2011
 - Met 14 times – now coming towards a solution
- Consent conditions - milestones
 - Working Party to report on Options by 31 October 2016 (done)
 - Working Party to report on “referred” option by 31 October 2018 (done)
 - Report on proposed implementation program, consenting, construction and operation by 31 October 2020

Options Considered

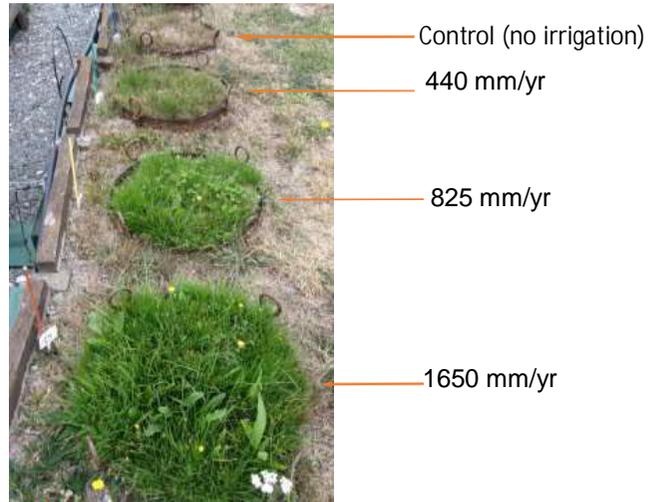
- Continued Harbour Discharge
- Discharge to Land (reuse)
 - 5 possible land application sites considered
 - Criteria - land slope < 15 degrees
 - Proximity to plant.
 - Site 1 and 3 best options
 - Storage of winter volume required

Land discharge is technically feasible

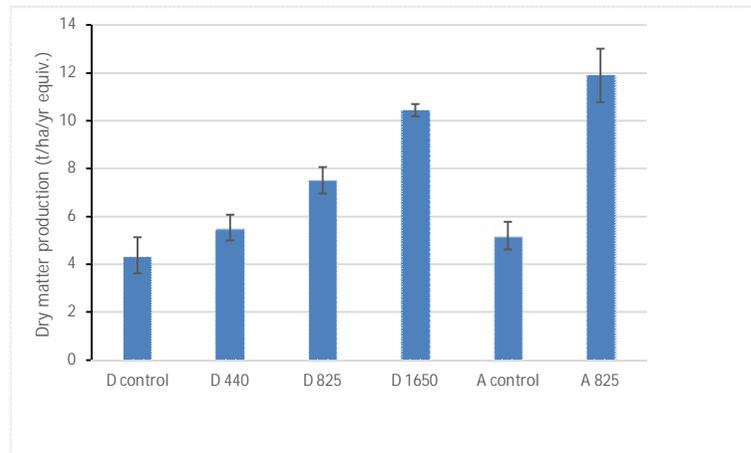
therefore harbour discharge will be very difficult to consent







Wastewater accelerates pasture growth

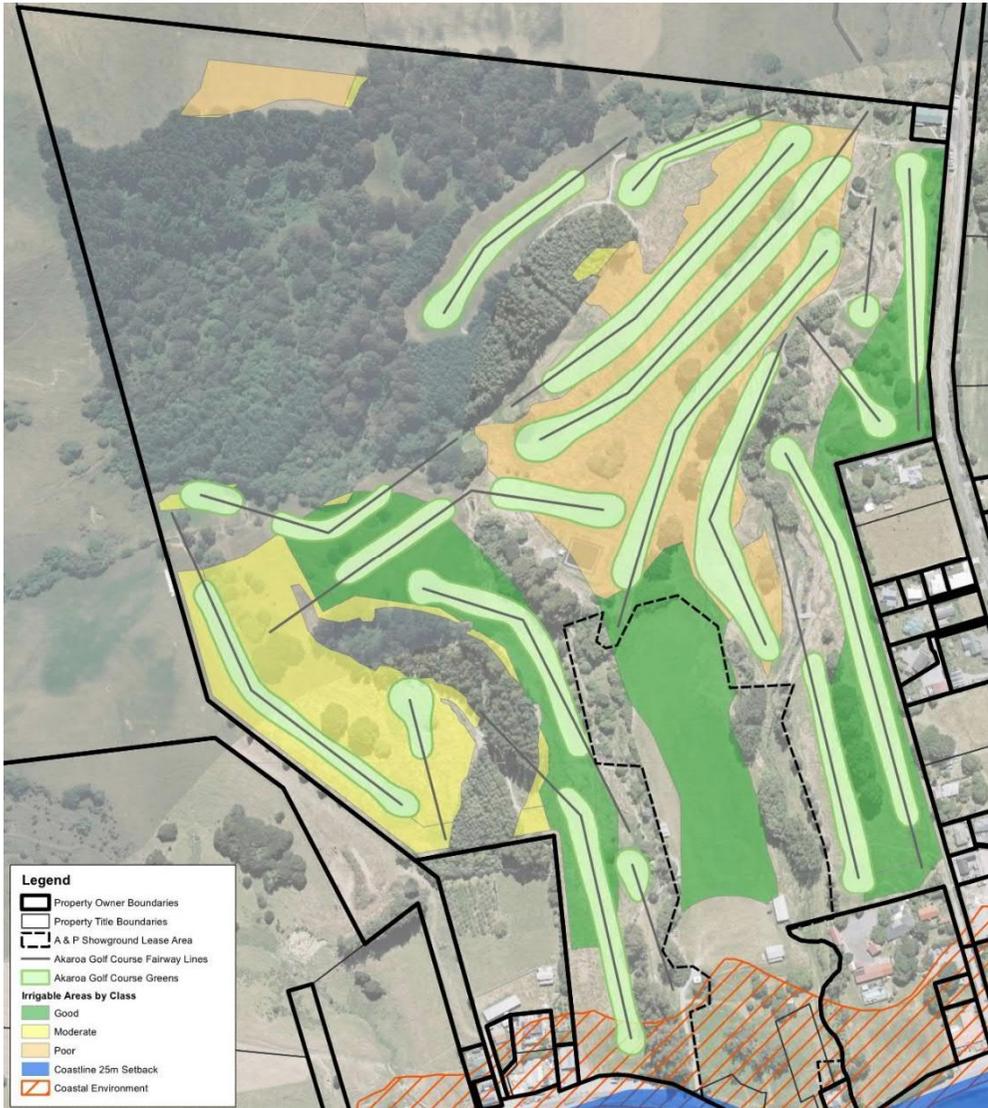




Native Tree Growth Trial
using Duvauchelle Treated
Wastewater
Lincoln University
October 2014
To February 2018



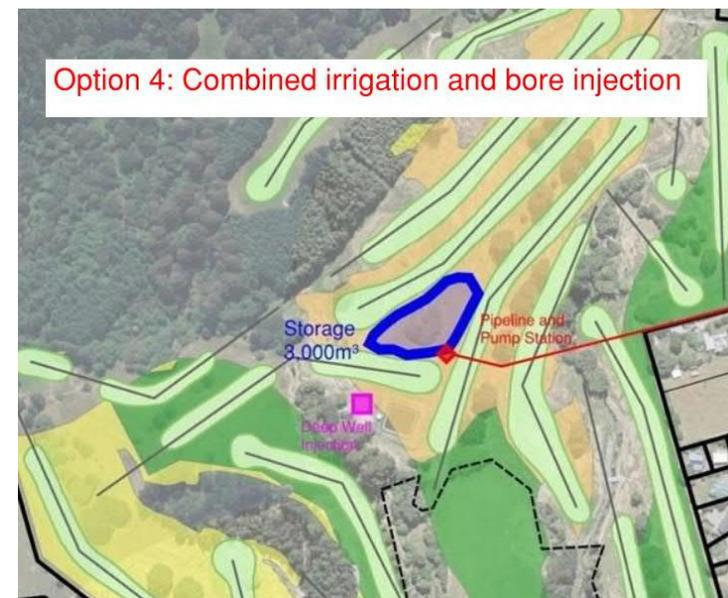
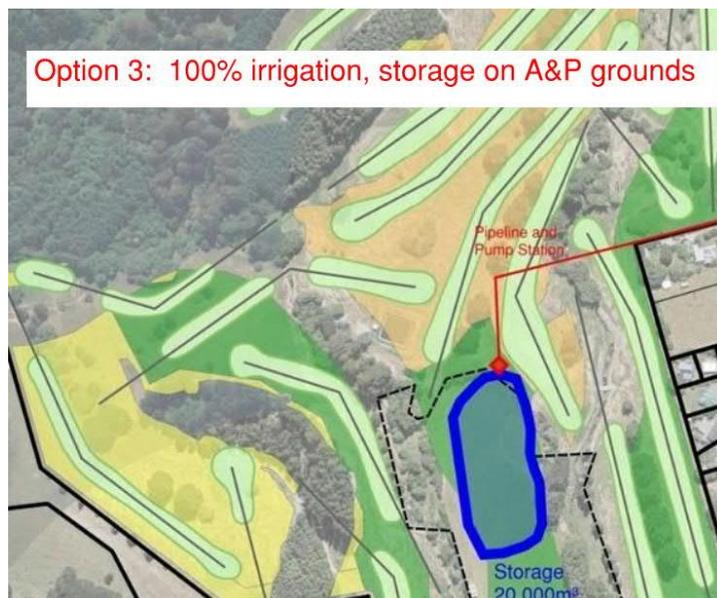
Golf Club and Show Grounds Irrigable Areas



Drainage Class	Operating Regime	Drainage	Area (ha)
Good	All year	Good	5.0
Moderate	Summer + shoulder only	Moderate	2.5
Poor	Summer only	Poor	3.4
Total assumed irrigable area			10.9

- Any land > 15 degrees is excluded

Duvauchelle Wastewater Scheme Options



Rough Order Capital Cost Estimate

Option	Rough Order Capital Cost
Options 1 - 3	\$4.0M - \$5.0M
Option 4	\$3.3 - \$4.2M

Option 2 photomontage

DRAFT

Option 2 waste water pond location - Artist impression for information only



Option 4 Photomontage – Covered Vs Uncovered Pond



Next Steps

- Community Information meeting(s)
- Further develop preferred option(s) and costs
- Review implications of Akaroa bore injection work for Duvauchelle scheme
- Report to Council for a decision on preferred option
- Prepare and lodge consent application
- Report on proposed implementation timeframe