

WATER

CPWL OVERVIEW PRESENTATION WET Symposium 2013 Measure to Manage Susan Goodfellow, CPWL Project Manager

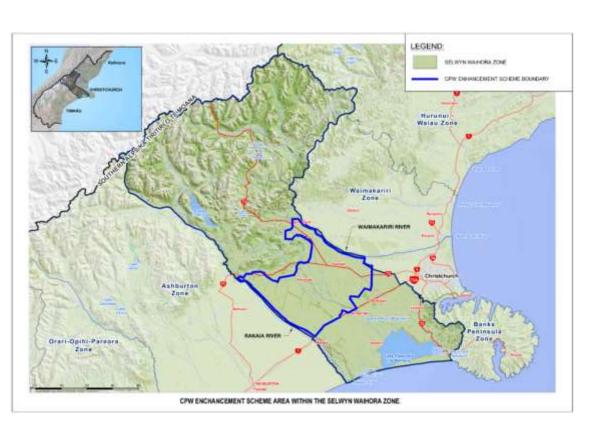
November 2013







What is Central Plains Water?



The Central Plains Water
Irrigation Scheme is a 100%
farmer/shareholder owned
company that holds consents
(2012)to irrigate 60,000ha of
land with run of river water
within the Central Plains area.





How does CPW Contribute to the Solution for the Zone?

- 2 years of community consultation and science has established a solution package that will work towards achieving the water quality improvements for Te Waihora.
- It has been identified that a fully operational (60,000ha) CPW scheme which includes 30,000ha of new irrigation, and the transfer of a significant portion of the current 30,000ha irrigated farmland from ground water use to surface water use, is a key part of the solution package.
- The result, CPW will -
 - Contribute toward resolving the over allocated groundwater issue;
 - Contribute to achieving the environmental flows established for the lowland streams.





How does 'Measure to Manage' Apply to CPWL?

- » CPW Sustainability Protocol to achieve environmental standards
- » Protocol requirements are imbedded in the Consent to use water
- » Key components relating to operations that are critical to achieving good sustainable management outcomes
 - » Kaitiakitanga
 - » Biodiversity and ecosystem management
 - » Efficient water use
 - » Water quality : surface and groundwater
 - » Water quantity: effects on levels and flows
 - » Local communities
 - » Resource use energy and waste
- » CPW have a suite of consent obligations that set out monitoring and measuring the impacts of the scheme, and establishment of measures to mitigate if trigger levels are exceeded.





What Measures have CPWL implemented to date?

- » Implement a Ground and Surface Water Monitoring plan (commenced Dec 2012)
 - » Monitor over 20 bores within the scheme area, new bores implemented Jan/Feb 2014
 - » Monitor surface water sites above and below the scheme area
 - » Summarise the current status and influences to date on water quality and water levels –(baseline study complete Nov 2013)
- » Establish a Ground and Surface Water Expert Review Panel (established Sept 2013)
 - Ground water and surface water quality
 - Water quantity (levels and flows)
 - Nitrates and other contaminants
 - Panel to review monthly and quarterly monitoring results and recommend mitigation actions if required.

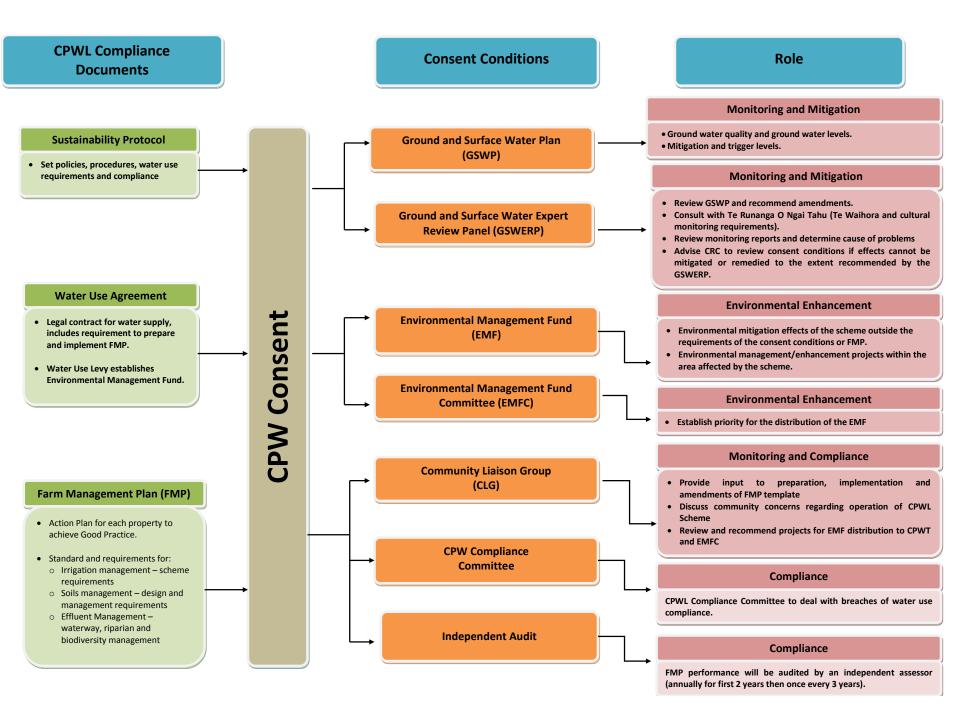


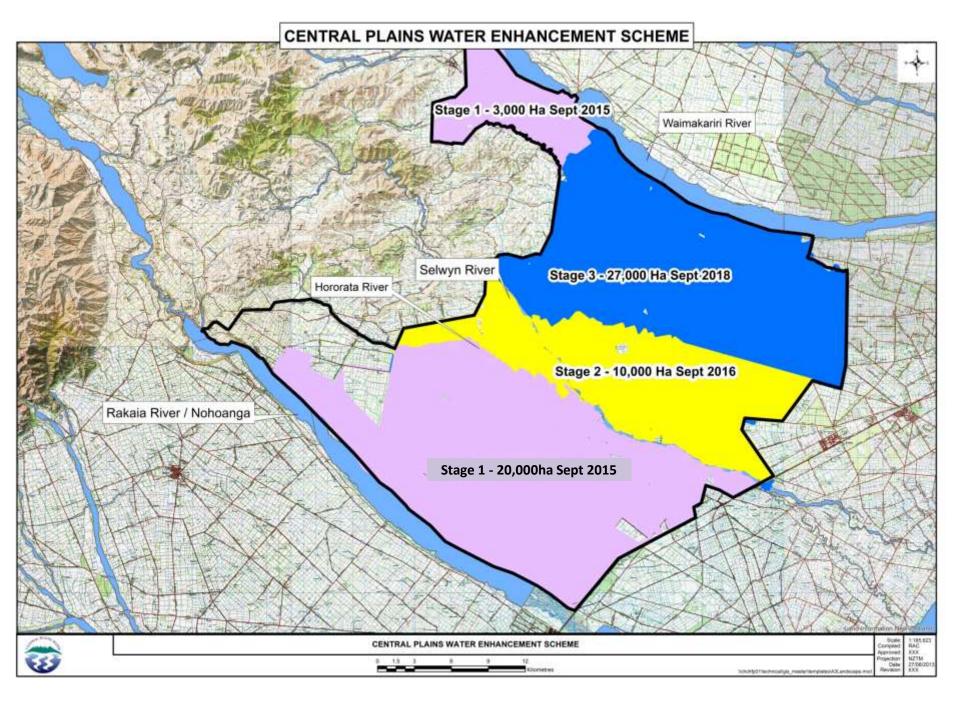


What Measures have CPWL implemented to date?

- » Water Use Agreement
 - » Scheme Water Use Agreement completed September 2013 and included in September Prospectus
- » Community Liaison Group (established by Dec 2013)
- » Farm Environmental Management Plans (nutrient and water management)
 - » Template developed to align with the FEMP template being developed for the Zone
 - » Farmer training workshops scheduled for March 2014
 - » Collect nutrient baseline data template under development
- » Runanga Advisory Group Established Sept 2013 (Taumutu &Tuahiwi) for consent consultation requirements
- » Environmental Management Fund (mid 2015)
- » Environmental Management Fund Committee (mid 2015)









Summary

- CPW are in the process of implementing a suite of consent obligations that require regular measurement and assessment of the scheme and farmer/irrigator performance in order to monitor the effects of the scheme on the environment.
- On farm impacts will be captured within the Farm Environmental Plan
- Scheme wide impacts will be captured within the Scheme Environmental
 Management Plan (Sustainability Protocol requirement), ground and surface water
 quality and level/flows monitoring.
- The Community Liaison Group will review the annual Farm Environmental
 Management scheme report, and the scheme infrastructure performance (including
 annual site walk of scheme infrastructure);
- The Environmental Enhancement Fund Committee will review suitable projects for biodiversity enhancement.
- Measure to Manage reflects the underlying philosophy of CPW sustainability protocol and consents.

