

Central Otago District Council

IPWEA Clyde Branch Meeting

The Value of Water



Contents

- Why did CODC install meters
- What has the project cost
- What change did CODC see
- What were some of the savings

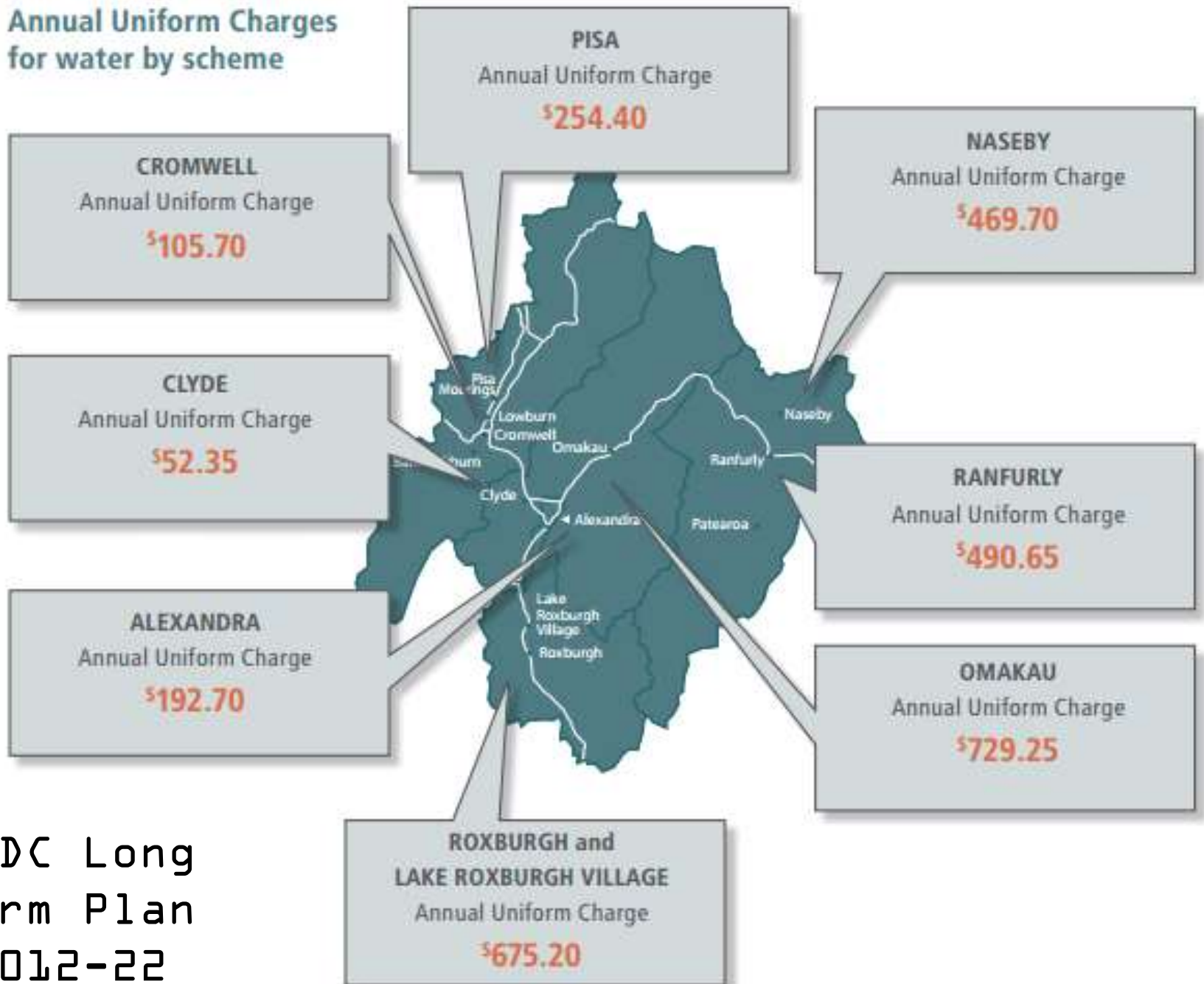


Where did CODC start from?

- Scheme funded activities
- Allocations and “free water”
- Inconsistency in Service provision
 - Lifestyle Blocks >1100m²
 - Swimming Pools
 - Bannockburn
 - Patearoa
 - Sports clubs
- Tariff 90's - The use of Tariff 90, where a meter is read but not billed, these included
 - Clyde Recreation Reserve,
 - Alexandra Railway Yard
 - elderly persons housing
 - and Jolendale Park in Alexandra
 - and the Omakau Showgrounds
 - Clyde School, etc



Annual Uniform Charges for water by scheme



CODC Long
Term Plan
2012-22

Why the need for change?

- The implications of the affordability of upgrades based the 2007 water demand
- Compliance with Drinking Water Standards (DWS)
- Compliance with regulations and regional water policies
- Water quality and delivery of a consistence service
 - Reducing the summer pressures of supply
- Affordability of the water service

It was estimated that if CODC reduced it's demand by 20% it would provide a 15% reduction on the capital cost of upgrades.



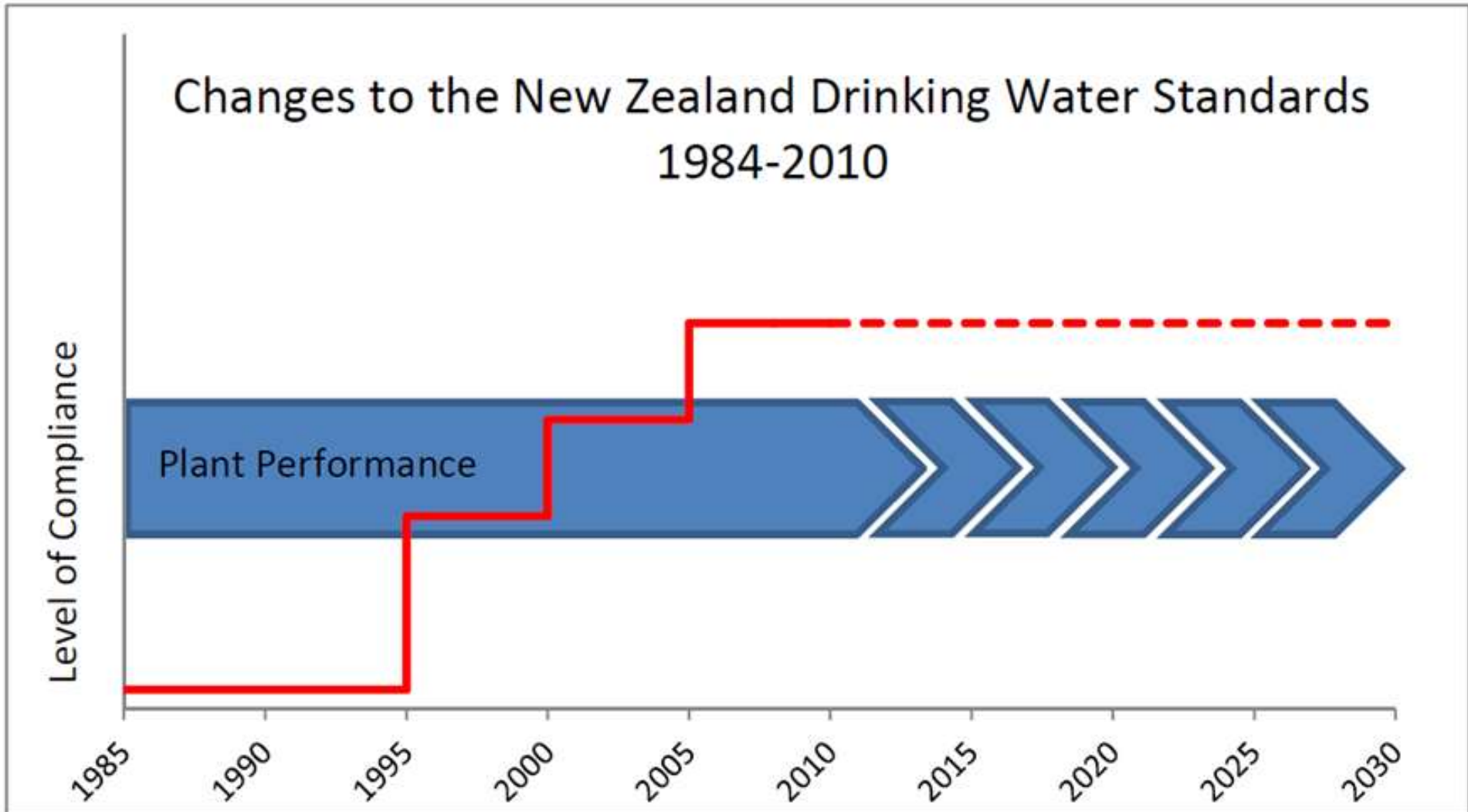
What is wrong with our water?

Changes to the New Zealand Drinking Water Standards
1984-2010

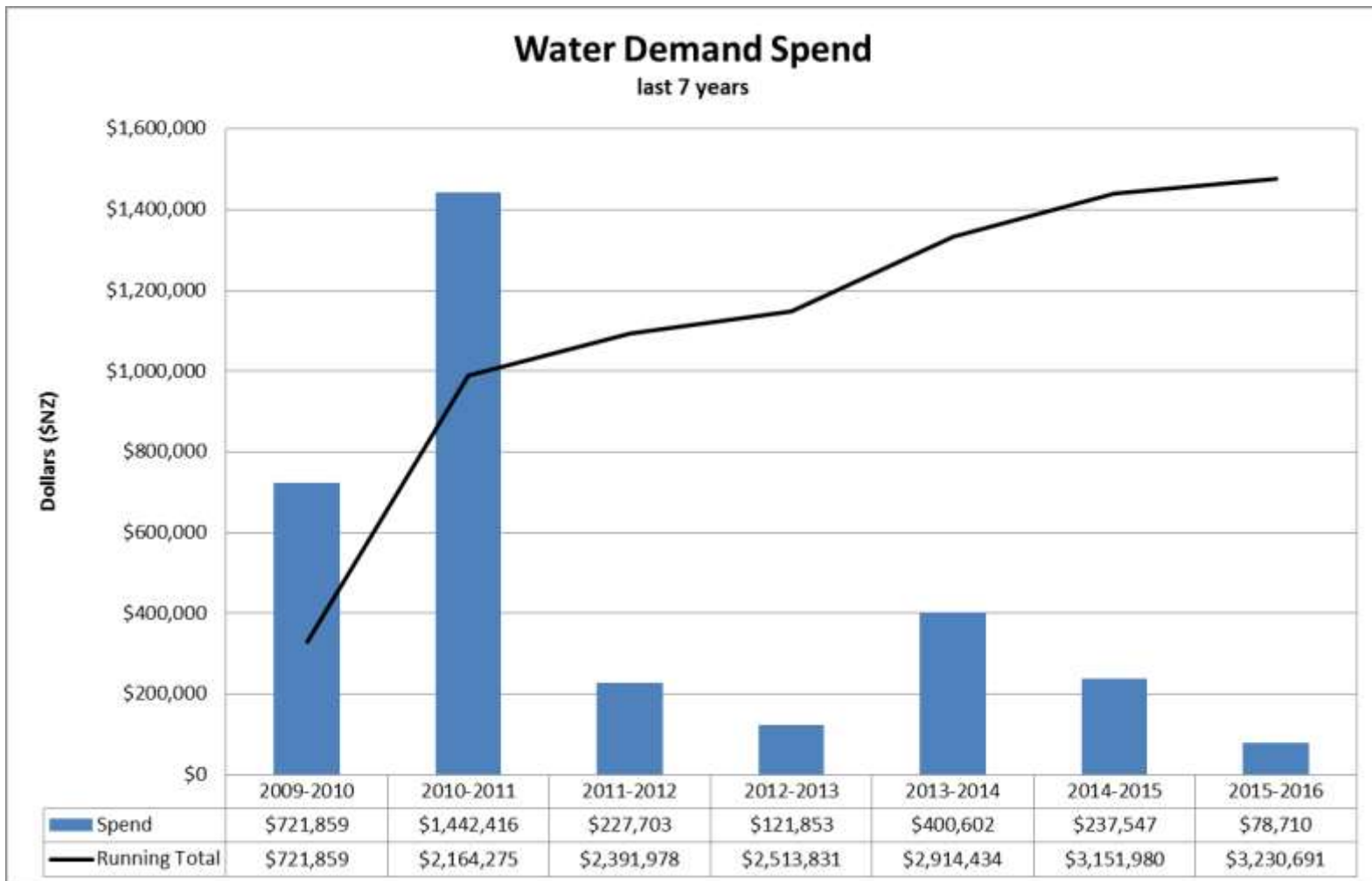
Level of Compliance

Plant Performance

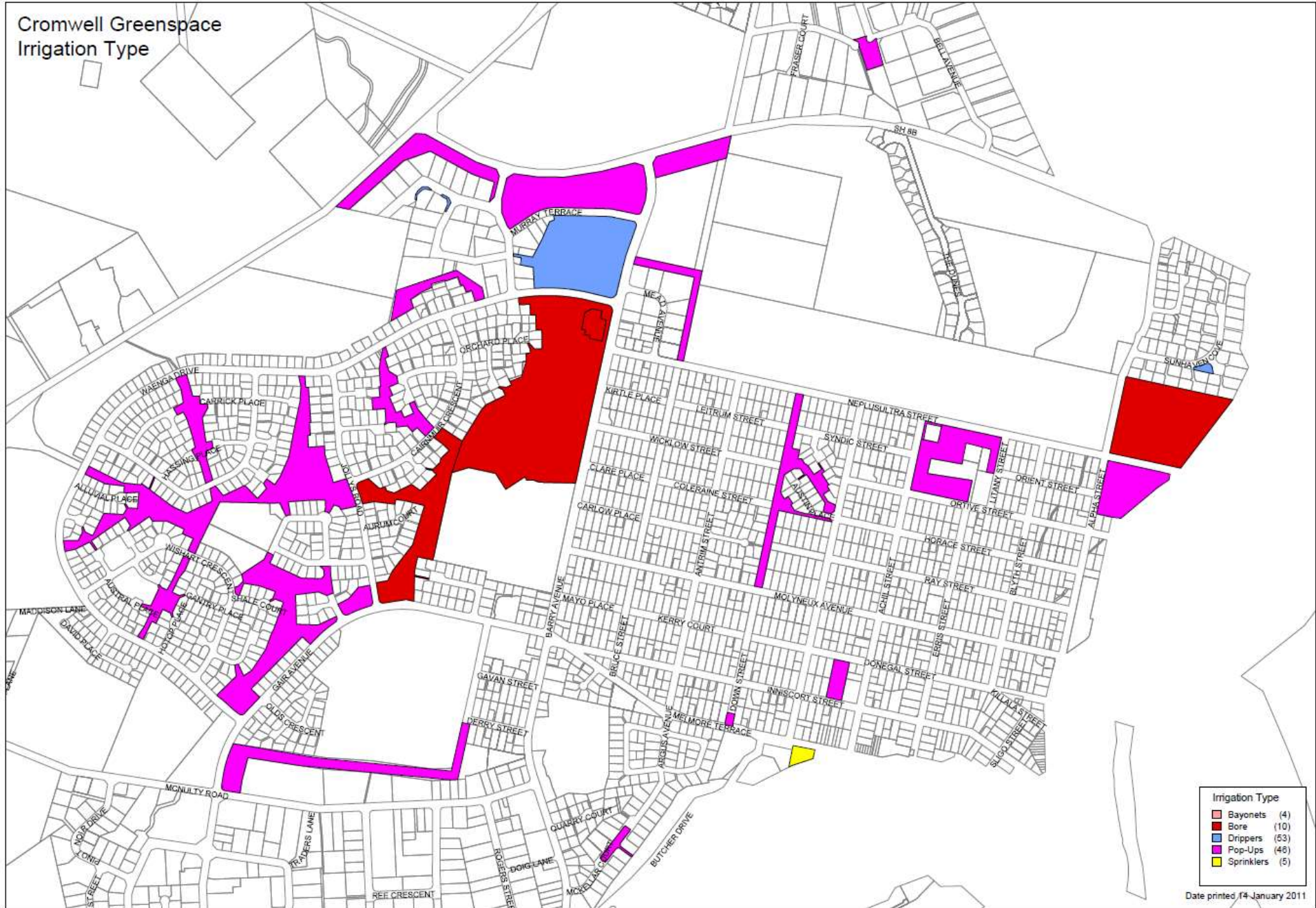
1985 1990 1995 2000 2005 2010 2015 2020 2025 2030



The cost of Water Meters



Cromwell Greenspace Irrigation Type



Irrigation Type	
Red	Bayonets (4)
Dark Red	Bore (10)
Blue	Drippers (53)
Magenta	Pop-Ups (48)
Yellow	Sprinklers (5)



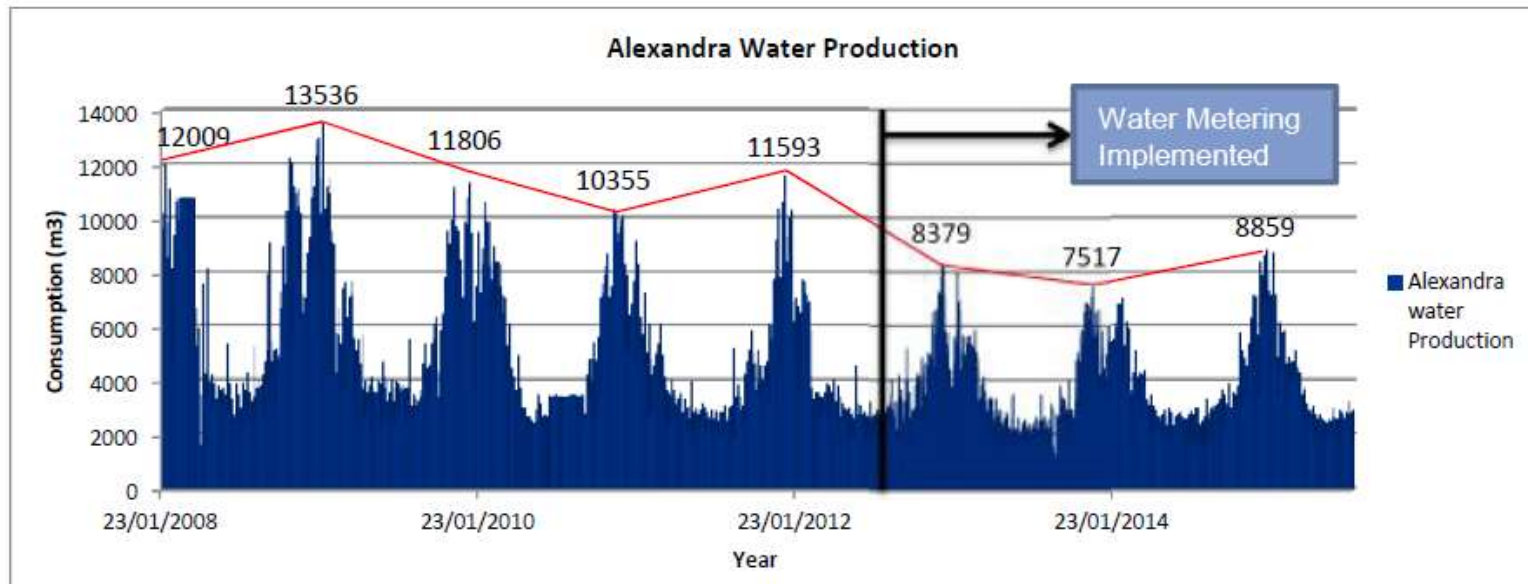
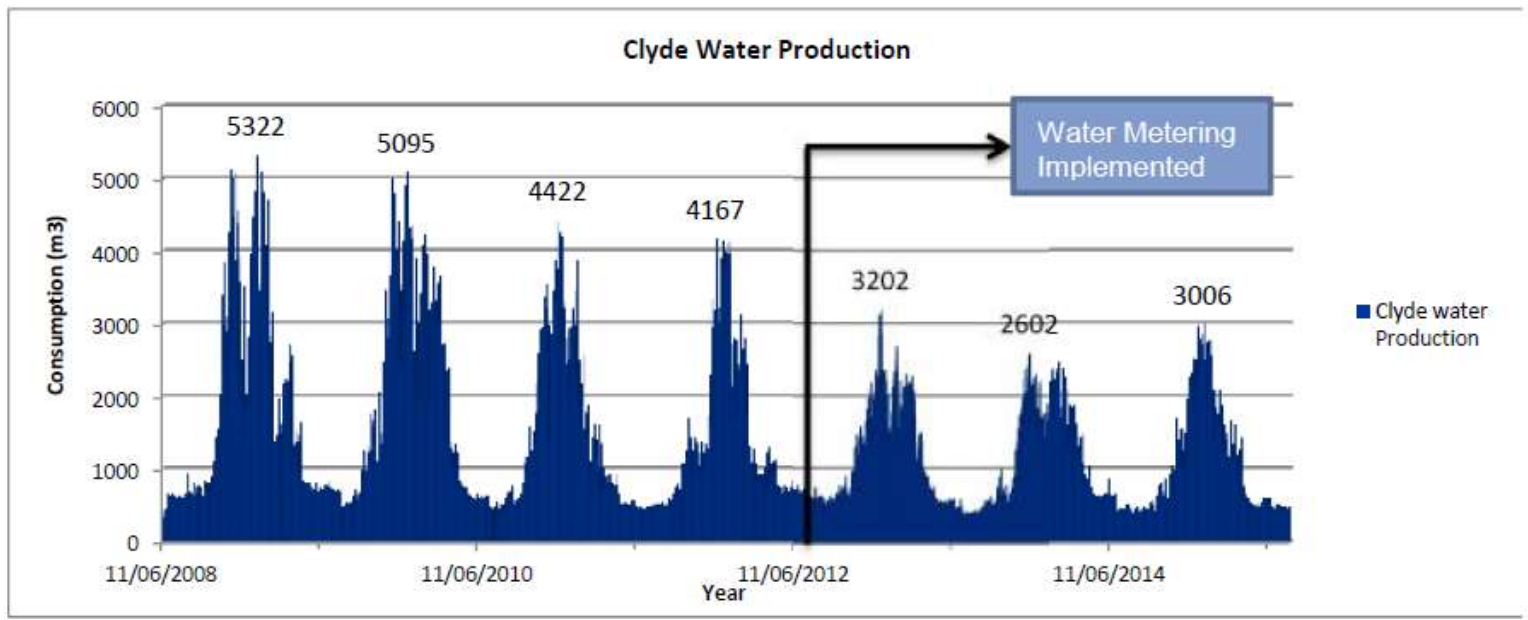
Other Costs

- Rating Staff time
 - Water Billing entering in 8500-9000 accounts
 - Clarifying the correct customers to the water meters
 - Customer, Council and Contractor expectations
- Water Team Time
 - Communication with Community – attitudes, expectations and feelings
 - Communication with Elected Members
 - Communication with Council Staff
 - Why do you hate clubs, sports and community groups?
 - How much should water cost – 20, 50 or 80 cents, what about \$2.50?
 - Not just meters – toby separations
- The Silent Protest
 - Grass Verges
- Community Engagement & Education
 - Gardens that don't require flood irrigation
 - Greywater reuse
 - Rain tanks

What did the meters do to



Water Services



What did the bills do to the figures?



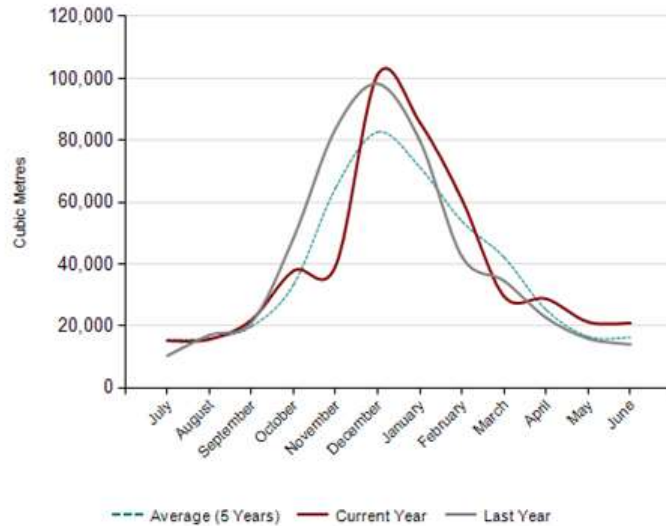
Water Supply	Peaking Factor	
	2012	2013
Alexandra	5	4
Clyde	10	6
Cromwell	8	6
Naseby	6	8
Omakau	3	3
Pisa Village	17	13
Ranfurly	3	3
Roxburgh	3	3
District Total	6	5

Water Supply	Peak Water Production		
	2012	2013	% change
Alexandra	11600	8450	27%
Clyde	4140	3250	21%
Cromwell	14030	10900	22%
Naseby	370	360	3%
Omakau	450	360	20%
Pisa Village	1110	810	27%
Ranfurly	1080	780	28%
Roxburgh	1100	1170	-6%
District Total	34620	26930	22%

What have we saved?

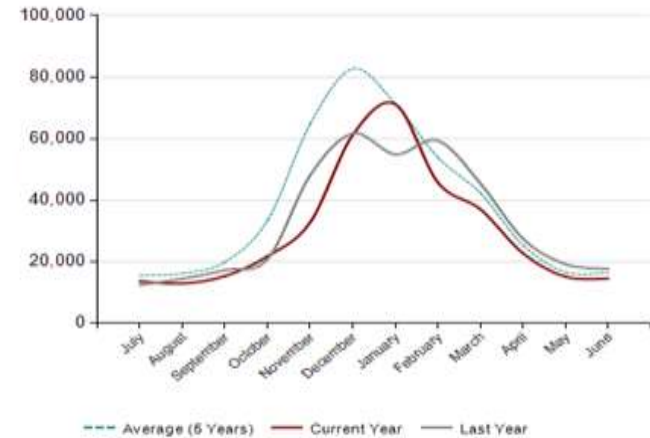
Clyde 2012

Production Profile



Clyde 2015

Production Profile



And in actual dollars?

- The proposed new plant for both Clyde, Alexandra & surrounding areas is now 18ML a day, where before it was proposed to be 6ML for Clyde and 20ML for Alexandra with nothing for the lifestyle areas.
 - This allowed CODC to remove the Clyde upgrade from the books. This included another Bore and new treatment plant for \$2.5mil
 - This has also allowed CODC to provide for a restricted water supply to the lifestyle properties that was not in the budget, which was proving to be a problem.

On Demand
~ 200 ha

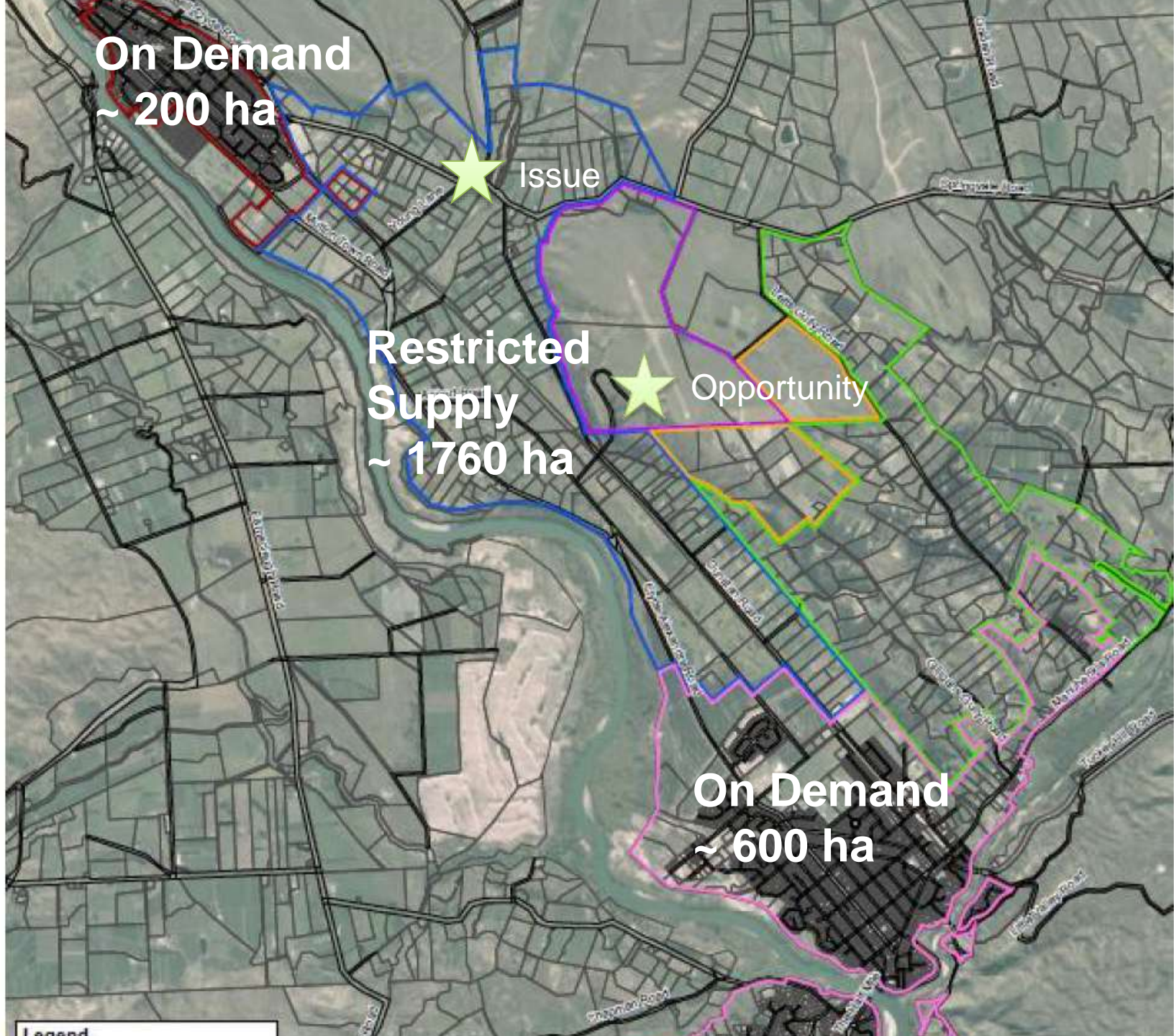
★ **Issue**

Restricted Supply
~ 1760 ha

★ **Opportunity**

On Demand
~ 600 ha

Legend



Benefits of Volumetric Charging

- Reduction in Peak production
- Private leaks are managed & fixed promptly
 - Clyde 2011 – 15% total leakage with $\frac{3}{4}$ of this on Private Plumbing
 - Alexandra examples when meters were installed – 12m³ per day (one lady owner)
- Asset and water use Knowledge improved
- Leaks are reported promptly
- Community Values Water
- Engineers get to talk to the public



NOT The reason for Water

