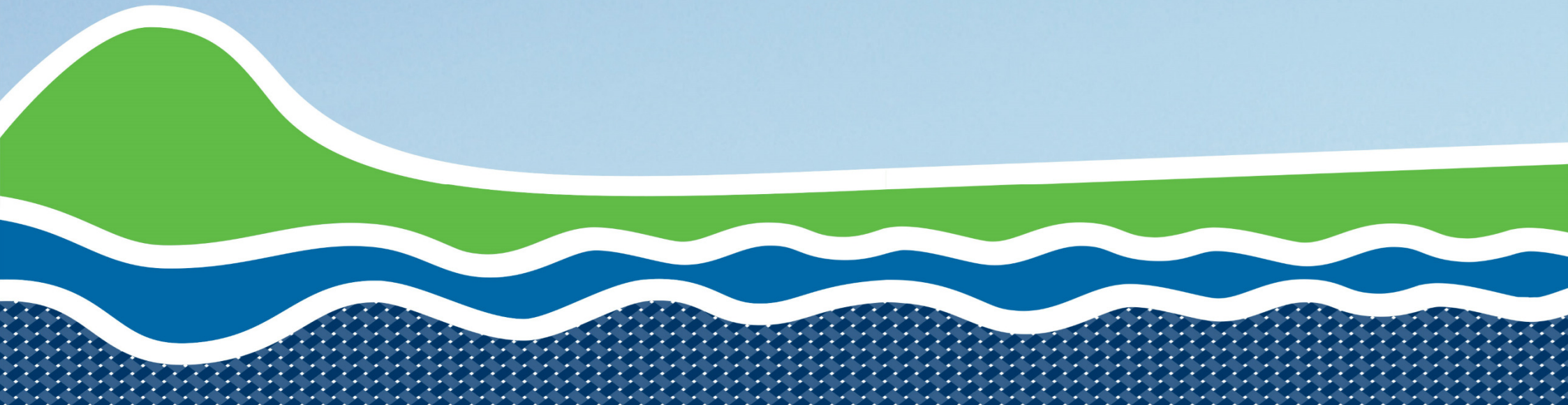


# In the Beginning...

Land Treatment Collective 2016



# The Need for Improvement

Broad agreement

OSW industry is seen as a “necessary evil”

Very few resources



# What are the Risks?

In a previous life

- 1% septic tanks failing
- 10 % AWTS failing

In current role

- No stats – but frequently find systems failing

AWTS

- Better environmental outcome
- Higher risk of failure



# Where does improvement start?

Owner ?

Rules ?

Designers ?

Manufacturers ?



# 16 Regional Councils / Unitary Authorities

All have Rules

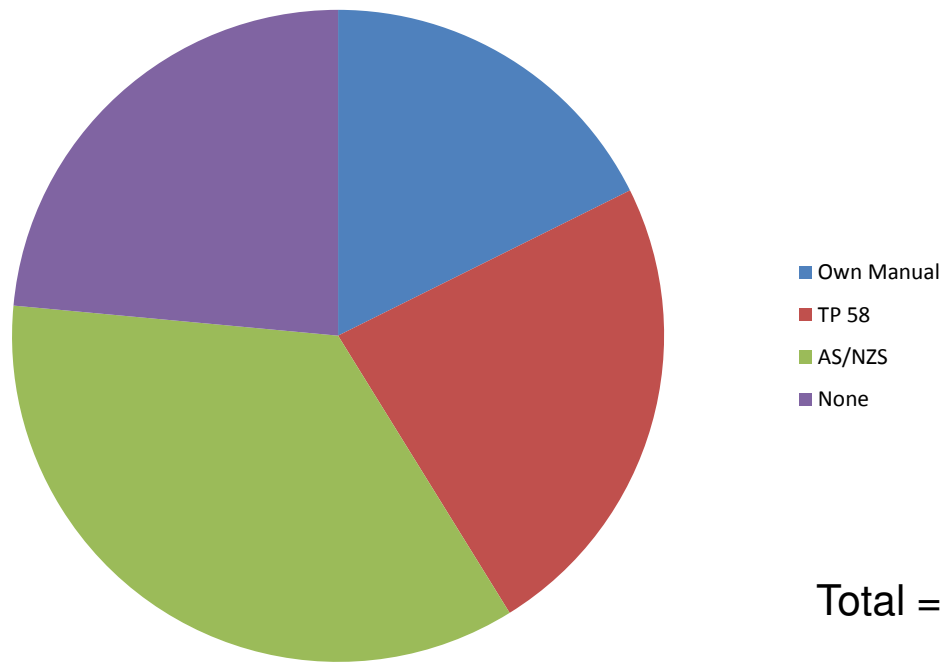
Some date back to 1997

Many are more than 10 years old

No evidence of pending review



# A Survey



# A Survey

Septic Tank Maintenance Requirement	1
AWTS Maintenance	4
Qualified Designers	3
Approved Systems	2
Max flow for permitted activity	Mostly 2 m <sup>3</sup> , 5 don't have a limit



# Other Problems

Poor relationships with TA's

No direct link to Drainers

Manufacturers not AS/NZS compliant





# Action



# Action

WaterNZ could submit to Annual Plan and Long Term Plans

- Review outdated plans
- Suggest a minimum content

LTC could

- Revive “Onsite Newz” or similar
- Broaden its reach

