Western Bay of Plenty District Council

Ongare Point Wastewater Community Meeting

11 August 2015

Western Bay of Plenty District Council

Ongare Point Solutions

- Considerations given to either part community solution (16 Properties)
- Consideration given to 32 orange coded properties (of which 16 are believed to require significant work)
- Part scheme = 32 Properties?
- Full scheme = 58 Properties?

Reticulation Options Assessed

- Option 1 – STEP/STEG System plus treatment pods
- Option 2 – Grinder Pump system to new treatment plant
- Option 3 – Combination grinder pump/Gravity system to new treatment plant
- Option 4 – BioFiltro Treatment System

Preferred Reticulation Option

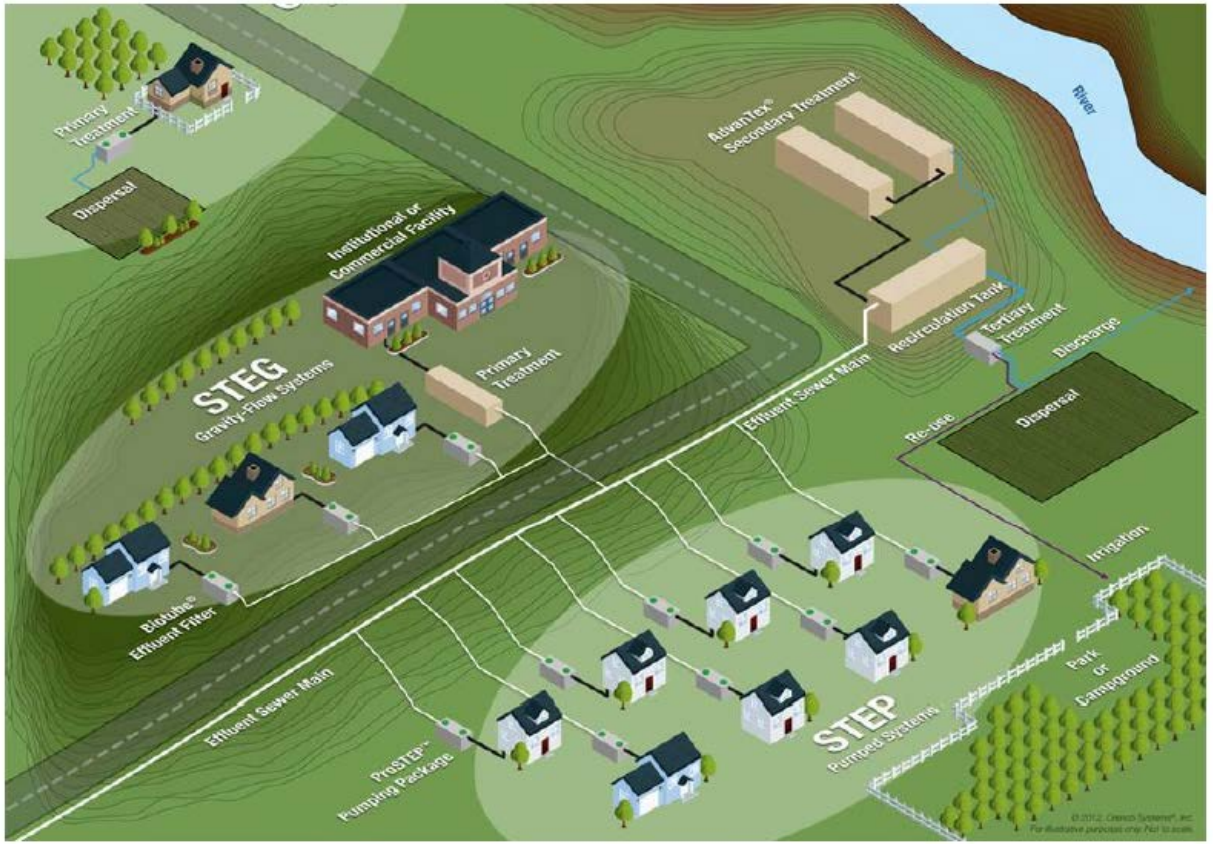
- STEP/STEG System

  Or

- BioFiltro Treatment system (currently being investigated)

Area to be Reticulated

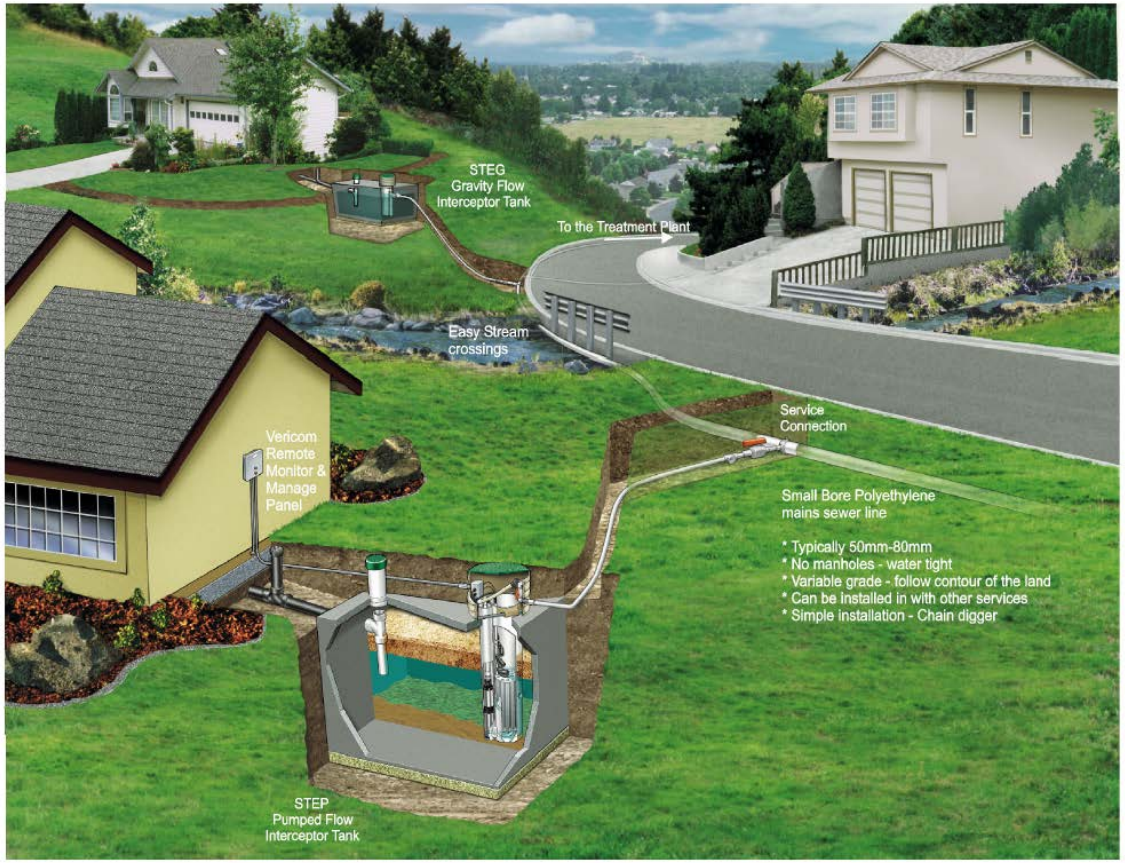
STEP/STEG System



Example Overview of Decentralised Treatment

example of fibreglass STEP tank

STEP / STEG Tanks



Diagrammatic representation of an Effluent Sewer

An AX600 rtPBR following site remediation

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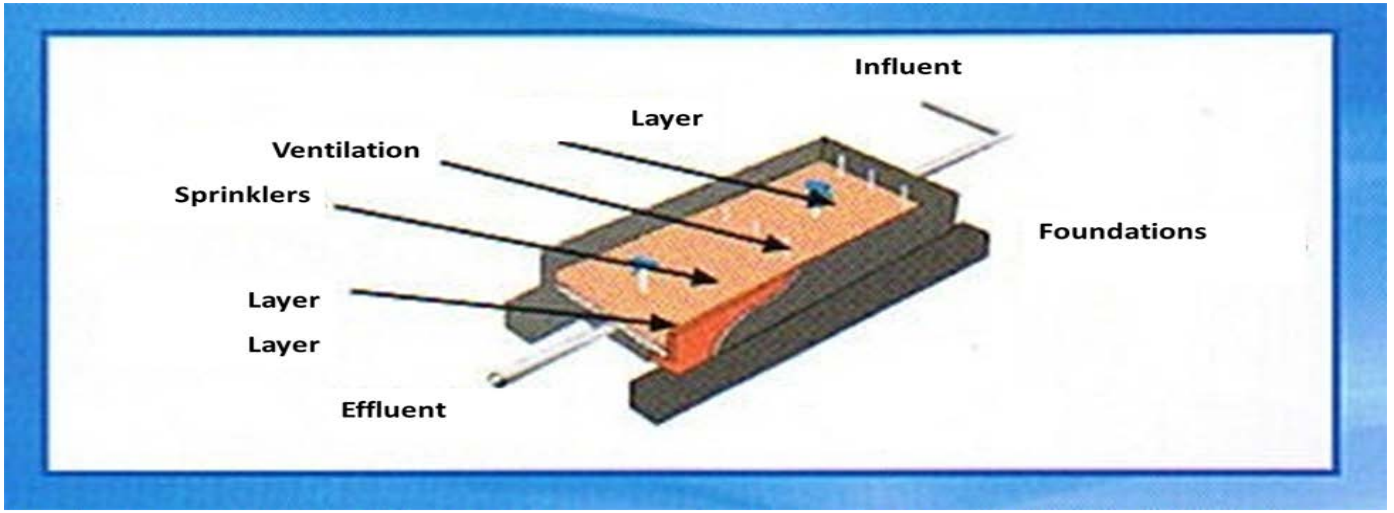
BioFiltro - How Does it Work



- Pre-Treatment (domestic – pond or screen, dairy weeping wall)
- Bio-bed- Multi-layered media, worms, bacteria
- Disinfection by UV
- Minimal mech. & elec. reduced O&M

BioFiltro – Key Benefits

BioFiltro® offers an innovative, economical and sustainable treatment solution for agricultural, industrial and community wastewater.

Economical: Capital costs are very competitive and operating costs are significantly lower than traditional systems. There is no sludge production and hence further operational savings.

Sustainable: The rich worm humus by-product of the BioFiltro® process is well suited to vermicomposting. Biofiltro® offers up to 80% in energy savings compared with traditional wastewater treatment systems.

Future Proofed: BioFiltro® is modular and can be scaled to suit the needs of different industries, agriculture, small communities through large towns – ideal for matching population growth and/or changing resource consent requirements.

Environmentally Sound: BioFiltro® is a natural treatment process, produces effluent suitable for disposal to water or land irrigation without using chemical products and produces no odour, noise or sludge.

BioFiltro Experience

Over **120** plants installed in **5** countries (Chile, NZ, Spain, Mexico and Brazil)

Adopted by **food industry** and **rural communities**

Tested in extreme climate conditions including **Antarctica** and **Atacama desert**

Total Scheme Cost – STEP/STEG
(including GST)

Assumption – All property owners connect to the scheme

	Estimated Cost
Onsite Costs (including tank, electrical drain laying etc.)	$867,000
Reticulation Costs (including treatment and land purchase)	$1,003,400
Total	**$1,870,400**

Projected Cost $32,250 per property

Assumptions for STEP/STEG costing

- Complete pressurized system
- All properties have a STEP – Septic Tank Effluent Pump
- All properties connect to the scheme
- Disposal along road reserve (limited land purchase required)

Proposed Funding Model Per Property
(including GST)

Land owner cost

• Onsite Costs	$ 13,800 - $16,100
• Regional Council Subsidy	- $5,260
Total Land Owner Projected Costs	**$ 8,540 - $10,840**

Western Bay of Plenty District Council Cost

(funded by the Uniform Annual Charge 'UAC')

• Scheme reticulation, treatment and disposal	$16,300 - $18,300
• Regional Council Subsidy	- $6,990
Total funded by UAC	**$9,310 - $11,310**

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Proposed Funding Model

District Wide Uniform Annual Charge

- Annual charge to each property
- Based on current rates model (2016/2017) - $851
- Will cover:
  - Scheme Costs; $9,310 - $11,310 per property
  - Operational Costs; operation of treatment plant, maintenance of network.

Expected Timeframes

- By Friday 11th September – Feedback form returned to Council
- September – October engaging with the community on the assumption the communities desire is for a reticulated scheme
- By December 2015 – Consents must be in place (for existing systems)
- Property owner commitment to proceed with reticulation scheme, formal Council approval
- 2016/2017 – scheme design
- 2017/2018 – scheme construction

Planning Rules

Current Planning Rules will apply.

- Minimum section size 800m^2
- No change to residential zone

Further information is available at

http://www.westernbay.govt.nz

Residential Zone

Questions requiring answers

- Do we want a full scheme or partially scheme?
- Who owns (and maintains) the onsite tanks?
- What operational system is most appropriate for the Ongare Point community?
- Are there any other options that need to be investigated? (compost toilets)
- What happens if a scheme does not go ahead?

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Feedback

Ongare Point Wastewater Reticulation

Name: .....

Address: .....

Postal Address: .....

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.....

Contact No: .....

Email Address: .....

Do you support a reticulation scheme for the Ongare Point community?

Part scheme ☐ Full Scheme ☐ No Scheme ☐

Would you like Council to further investigate?

STEP System ☐ Standard ☐ Other ☐

(i.e. BioFiltro or similar)

Do you have any further comments or concerns you would like Council to address?

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Forms can be placed in the box provided at the meeting or return to;

Western Bay of Plenty District Council
Private Bag 12803, Tauranga 3143
By no later than Friday 11 September 2015
For more information email ongare.ww@westernbay.govt.nz or ph 0800 926732

A2286482

Please remember to return your feedback forms to Western Bay of Plenty District Council by Friday the 11th September.

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Continued engagement

- Additional meeting may be required for residents currently overseas or unavailable
- Dependent on process going forward
- A further meeting will be held with the community to decide on future direction

  (i.e. status quo or reticulated scheme)