

Nutrient Retentive effluent disposal systems are an alternative to conventional septic systems. These systems are installed in areas that are environmentally sensitive, or where untreated effluent would pose a risk to public health, to ensure that the phosphorus does not impact on natural water bodies.

Due to a number of sensitive environments and ecosystems in the Shire, as well as the close proximity to the Peel Harvey Catchment Area, many of the subdivisions have specific requirements in place that require nutrient retentive effluent disposal systems, which protect the environment and water systems.

Nutrient retentive effluent disposal systems are categorized into one of two types:

- Aerobic Treatment Units (ATU's) are a small scale septic system which uses aerobic process to speed up the breakdown of organic matter. The effluent is then further treated and disposed of by either surface irrigation, sub-soil/sub-strata drippers, or leach drain systems. Some subdivisions only allow sub-soil/sub-strata drippers for the disposal of waste water.
- Nutrient retentive leaching systems have conventional septic tanks which process the solid and liquid wastes, connected to leach drains that discharge the effluent into amended soil bed. The amended soils strips the effluent of nutrients.

Below is a list of approved ATU's and Leaching systems that are approved as Phosphorus retentive.

## Aerobic Treatment Units

Manufacturer/Supplier	Brand Name/Model	Capacity	Comments/Restrictions
<b>Aquarius Wastewater Management Pty Ltd</b> Unit 1/20 Abrams Street BALCATTWA WA 6021 Ph: 9240 8545 Fax: 9240 8542 Web: <a href="http://www.aquariuswastewater.com.au">www.aquariuswastewater.com.au</a> Email: <a href="mailto:sales@aquariuswastewater.com.au">sales@aquariuswastewater.com.au</a>	Aquarius O-3	Single dwelling units up to 10 person capacity.	Approved for sub-surface or sub-strata or above ground spray irrigation. Capable of removing nutrients
	Aquarius O-2 NR	Single dwelling units up to 10 person capacity.	Approved only for below ground disposal via sub-surface irrigation, leach drains, soak wells or AquaSafe Drains. The system does not include disinfection system. Capable of removing nutrients
<b>Biomax Pty Ltd</b> PO Box 462 MIDLAND DC WA 6936 Ph: 9250 7733 Fax: 9250 5844 Web: <a href="http://www.biomax.com.au">www.biomax.com.au</a> Email: <a href="mailto:biomax@inet.net.au">biomax@inet.net.au</a>	BioMax P10-M (phosphorus removal)	Single dwelling units up to 10 person capacity.	Approved for sub-surface or sub-strata or above ground spray irrigation. Capable of removing nutrients.
<b>Fuji Clean Australia Pty Ltd</b> 5/520 Mulgrave Road Earlville, Cairns QLD 4870 Web: <a href="http://www.fujiclean.com.au">www.fujiclean.com.au</a> <u>WA Distributor</u> <b>Ecowater WA</b> 37 Granite Place YANCHEP WA 6035 Ph: 0417 098 281 Email: <a href="mailto:ecowaterwa@bigpond.com">ecowaterwa@bigpond.com</a>	CE1500EX	Single dwelling units up to 10 person capacity or 1500L/day.	Approved for sub-surface or sub-strata or above ground spray irrigation. Capable of removing nutrients.
	CRX1500	Single dwelling units up to 10 person capacity.	Approved for sub-surface or sub-strata or above ground spray irrigation. Capable of removing nutrients.

## Contact Us

### Enquiries

Call: (08) 9526 1111  
 Fax: (08) 9525 5441  
 Email: [info@sjshire.wa.gov.au](mailto:info@sjshire.wa.gov.au)

### In Person

Shire of Serpentine Jarrahdale  
 6 Paterson Street, Mundijong WA 6123  
 Open Monday to Friday 8.30am-5pm (closed public holidays)



[www.sjshire.wa.gov.au](http://www.sjshire.wa.gov.au)



Manufacturer/Supplier	Brand Name/Model	Capacity	Comments/Restrictions
<b>Magnesium Tech Pty Ltd</b> 47 Sturt Street Bungalow QLD 4870 Ph: (07) 4055 1141 Email: <a href="mailto:wayne.gill@bwgill.com">wayne.gill@bwgill.com</a>	Magnesium DMS	Single dwelling units up to 10 person capacity.	Approved for above ground spray irrigation, sub-surface or sub-strata drip irrigation. Capable of removing nutrients.
<b>Taylex Industries Pty Ltd</b> 56 Prairie Road Ormeau QLD 4208 Ph: (07) 3441 5200 Fax: (07) 3287 4199 Email: <a href="mailto:Taylex@bigpond.com.au">Taylex@bigpond.com.au</a>	Taylex DMS (Domestic Membrane System)	Single dwelling units up to 10 person capacity.	Approved for above ground spray irrigation, sub-surface or sub-strata drip irrigation. Capable of removing nutrients.
<b>Aquarius Wastewater Management Pty Ltd</b> Unit 1/20 Abrams Street BALCATTWA WA 6021 Ph: 9240 8545 Fax: 9240 8542 Web: <a href="http://www.aquariuswastewater.com.au">www.aquariuswastewater.com.au</a> Email: <a href="mailto:sales@aquariuswastewater.com.au">sales@aquariuswastewater.com.au</a>	Graf E-Pro 15-1 Graf E-Pro 15-1C	Up to 1500L/day	Approved for sub-surface, sub-strata, above ground spray irrigation and disposal via flatbed drains, leach drains and soakwells.
	Graf E-Pro 15-2 Graf E-Pro 15-2C Graf E-Pro 15-3+0	Up to 1500L/day	Approved for sub-surface irrigation and disposal via flatbed drains, leach drains and soakwells.
	Graf E-Pro 15-3	Up to 1500L/day	Approved for disposal via flatbed drains, leach drain and soakwells.

### Nutrient Retentive Leaching Units/Alternative Leach Drains

Manufacturer/Supplier	Brand Name/Model	Capacity	Comments/Restrictions
<b>Filtrex Innovative Wastewater Solutions</b> PO Box 5122 BUNBURY WA 6231 Ph: (08) 9726 0118 Fax: (08) 9726 0117 Web: <a href="http://www.filtrex.com.au">www.filtrex.com.au</a> Email: <a href="mailto:info@filtrex.com.au">info@filtrex.com.au</a>	Filtrex Phosphate and Nutrient Wastewater Irrigation System	ATS - 2 – up to 564L/day. ATS - 4 – up to 829L/day. ATS - 5 – up to 1099L/day. ATS - 6 – up to 1369L/day. ATS - Gen-X – Variable.	Leach drains disposal only Minimum 600mm soil absorption from any ground or pooled waters at the wettest time of the year.  Commercial installations.
<b>Chankar Environmental PL</b> 6/62 Rene Street Noosaville QLD 6566 Ph: (07) 5474 4055 Fax: (07) 5335 1691 Email: <a href="mailto:info@enviro-septic.com.au">info@enviro-septic.com.au</a>	Advanced Enviro-Septic	AES-38 – Up to 1500L/day	Approved for disposal via subsoil infiltration, mound or evapotranspiration-absorption bed.