

Assignment 2 Wastewater Treatment System

For Assignment 2, the Riley wastewater and sewerage treatment system using on site treatment is considered to be residential in terms of discharge units and rate of flow. However, the proximity of Building 115 and its associated Foul and Wastewater drainage is similarly considered to be suitable destination for the Hall. Under this Assignment 2 for 2022, groups can either run their wastewater (foul water and wastewater), to the edge of the site using a 450 mm deep trench for a 150 mm diameter Polyethylene drainage line to be capped off with a manhole sump. Others will then later connect this 1050 mm diameter concrete sump to a depth of 2.3 metres but will not form part of this contract.

Or groups may elect to run the above drainage line to a Lifestyle® Waste Water Systems and must allow space for the system shown in the plans and the table in the diagrammes below, showing Hall layout services and the instruction for using either Bldg' 115 or the Lifestyle System.

Lifestyle Treatment System



That is, Lifestyle Waste Water Systems from Hynds, are a Building Consent Authority approved range of aerated treatment systems that offer environmentally sensitive alternatives to the traditional septic tank. Lifestyle systems utilize Submerged Aerated Fixed Film (SAFF) technology where this process uses advanced process produces a high quality, treatment performance suitable for land application (see details below)

Lifestyle Specifications Shown Below.

Hynds Lifestyle® Ultimate

The Hynds Lifestyle® ‘Ultimate’ System is designed for an individual house and offers excellent surge control for high occupancy with advanced performance. A large biological surge protection filter is installed on the outlet of the primary chamber.

- Maximum daily flow of up to 1800L/day
- Offers good surge protection
- Maximum 1 house
- Number of tanks: 1
- Total tank capacity: 8500 litres
- OSET and BOP Catchment Approved



FIG. 2 Hynds Lifestyle® Ultimate

Dimensions of the lid of the Lifestyle Treatment System Shown Below

Tank and Blower Box Riser

TABLE 4 Tank and Blower Box Riser and Filter Access Riser

Code	Description
LITER10500300	1050 x 300 Concrete Lid Riser
LIFECONTBR300	Blower Box Riser 300mmH (Lifestyle)
LIFEFAR	Filter Access Riser 300mmH

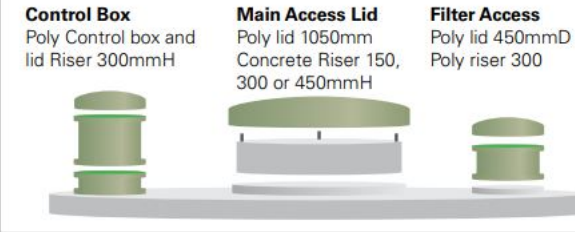


FIG. 4 Hynds Lifestyle® Lid, Blower Box and Riser

Treatment Bed Layouts Shown Below

	Treatment Bed Slope on Left	
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**Treatment
Bed
Dimensions
on right.
Treatment
Field uses 15
mm
polyethylene
irrigation
lines with
weeping
holes right**

