

23/09/2019

To SCEGGS c/o Sandrick Pty Ltd,

"The applicant is encouraged to avoid a cosmetic water re-use solution designed to achieve GreenStar compliance only. The applicant should provide detailed information about rainwater tank storage size and smart end-uses – preferably beyond only irrigation."

Rainwater Reuse:

SCEGGS do not wish to provide cosmetic or token rainwater re-use solutions.

Given that the footprint of Wilkinson House is relatively small (approximately 455m²), there is no proposal to incorporate rainwater storage tanks within this project. The number of fixtures within the building that could use rainwater is very small (approx. 3 WCs). The cost to install a tank internal to the building along with a rainwater reuse pump/UV system would be very high and take an extremely long time to achieve payback. There are no irrigated areas or areas that could be irrigated within a close distance of Wilkinson House and as such a rainwater reuse is not proposed for the building.

The new Multi-Purpose Building has a much larger footprint (approximately 1790m²) and the school will investigate the ability to incorporate a rainwater capture and reuse system within this project. The current Development Application for the Multi-Purpose Building is seeking approval at this stage for a building envelope. Details on a rainwater capture and reuse system for the Multi-Purpose Building will be provided as part of a separate detailed Development Application for this project when the building design and details are known. The area to install the required items associated with rainwater reuse would be less of a burden on a building of this size and the payback period would be far less. There are also areas of grass/planter close by which could use the rainwater reuse for irrigation and more fixtures which would likely be connected to rainwater reuse which will reduce the burden on the potable water supply.

Both the Administration and Multi-Purpose buildings are likely to incorporate rainwater capture via tanks. The size of the rainwater tanks and the locations will be determined during detailed design. The size will be based on the final roof area capable of reticulating to the tank locations. The future uses will likely be reuse for flushing, irrigation and wash down of hard surfaces.

For Greenstar purposes the tanks could be used to gain points. This may not be required as the buildings are likely to have enough points from other sources to meet the requirements. If other points are not met then rainwater capture can be used for this purpose.

Sincerely,

Michael Rickert

Hydraulic Engineer

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