

Continuation_Form B6_Appendix 1_Q3c

All water discharged from the Site is rainfall dependent. The Effluent Flow Rate (EFR) is therefore dependent on the site run-off to each discharge point. An estimate of the discharge rate has been made on the basis of publicly available rainfall data provided on the National River Flow Archive for the River Leen catchment. The average annual rainfall over the period 1961 to 1990 inclusive, is 687 mm, which equates to a daily rainfall of 0.0019 m/day. On the basis of the daily catchment rainfall the mean Effluent Flow Rate (EFR_{mean}) has been calculated:

Surface Water Discharge (W1), with area of the 12,381 m²: EFR_{mean} of 0.000270 m³/s.

Sewer Discharge (S1), with area of the 13,099 m²: EFR_{mean} of 0.000285 m³/s.

For the purpose of this estimation the maximum effluent flow rate (EFR_{max}) is estimated as an order of magnitude greater than the mean discharge rate, giving maximum effluent rates of: 0.0027 m³/s (0.27 litres / second) and 0.00285 m³/s (0.285 litres / second) for W1 and S1 respectively.