Water Neutrality Statement

1 Masons Way
Codmore Hill
West Sussex
RH20 1DZ

This Statement will demonstrate how the development will respond to the water neutrality requirements.

The existing detached building is a dwelling over two stories comprised of four bedrooms, one family bathroom, two en-suite's and a downstairs cloakroom

There is further a kitchen and utility sink

Due to the occupancy numbers there will therefore be an increase in water usage.

The most effective and important aspect of achieving water neutrality is by reducing water usage through the use of water-efficient devices.

The current UK Building Regulations *Approved Document G – Sanitation, Hot Water Safety and Water Efficiency* requires all new dwellings to achieve a water consumption of less than or equal to 125 litres/person/day (l/p/d).

Existing Baseline Water Usage: The estimated existing water usage of the property is 132m3 per year and 90 litres per person per day.

The proposed addition of the annex will increase the number to 166m3 per year but the proposed extension bathroom will be fitted with aerated taps which will decrease the per person overall usage down to 75 litres per person per day. As these allow for lesser flow rate. schedule of the fittings is included below:

Appliance	**Flow Rate (Part G)**	**Proposed Fixtures**
w.c.'s	6/4 dual flush	6/4 l/min dual flush
Basin Taps	6 l/min	4 l/min
Shower with bath below	10 l/min	6 l/min
Bath with shower above	n/a	139 l/overflow
Kitchen Taps	8 l/min	6 l/min
Dishwasher	1.25 l/	0.67
Washing Machine	8.17 l/kg	4.66 l/kg

The above proposed new fittings will lessen the usual amount of water usage from standard taps and fittings.

The new annex water usage is calculated as 65m3 lires per year and 89 litres per person per day meaning the new addition and overall dwelling will now fall under required 90 litres per person per day as per Part G.

The proposal will also provide for new water buts to the new annex extension and the existing dwelling to harvest water to be recycled for garden maintenance and car washing thus reducing the strain on the water supply.