

Water Neutrality Statement

For Proposed Development at Old Nursery Cottage, West Chiltington, RH20 2QR

Prepared for: Horsham District Council

Date: 06th October 2025

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1. Introduction

This **Water Neutrality Statement** has been prepared in support of a planning application for the demolition of the existing bungalow at **Old Nursery Cottage, West Chiltington** and the construction of a new 5-bedroom dwelling. This statement demonstrates how the proposed development will achieve **water neutrality** in line with the guidance issued by **Natural England** and **Horsham District Council**, addressing the current pressures on local water resources.

The **Arun Valley SAC/SPA/Ramsar** sites are under significant pressure from increased water abstraction, and this development will contribute to the efforts to ensure that total water use in the area does not increase.

2. Policy and Regulatory Context

The Horsham District is located within an area of **serious water stress**, and any new development must demonstrate **water neutrality** to avoid adverse effects on local ecosystems, including designated habitats such as the **Arun Valley SAC, SPA, and Ramsar sites**.

This Water Neutrality Statement follows the principles outlined in:

- **Natural England's Position Statement on Water Neutrality** (September 2021)
- **Horsham District Council's Water Neutrality Planning Guidance**
- **The Habitats Regulations (2017, as amended)**

Water neutrality is defined as:

“For every new development, total water use in the region after the development must be equal to or less than the total water use in the region before the development.”

3. Baseline Water Use

The existing water use on the site is derived from the existing bungalow at **Old Nursery Cottage**. The property is currently served by a water meter, and the average annual consumption is recorded as follows:

- **Existing water use:**
 - The bungalow is currently occupied by **4-6 people**.
 - **Current average consumption:** [e.g., 80 litres/person/day for 2 residents]
= **116,800 litres/year**
 - **Total baseline water consumption:** **116,800 litres/year**
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4. Proposed Development Water Demand

The proposed development will involve the construction of a new **5-bedroom dwelling**. The new house will be occupied by **8 people**.

Estimated Water Demand for the New Dwelling:

- **Occupancy rate:** **8 people**
- **Water efficiency target:** ≤ 110 litres/person/day (Building Regulations)

Total Daily Consumption:

8 people \times 110 litres/person/day = **880 litres/day**

Annual Consumption:

880 litres/day \times 365 days = **321,200 litres/year**

5. Mitigation and Water Offsetting Strategy

To achieve **water neutrality**, the development will need to offset the increase in water demand due to the construction of the new dwelling. The increase in water demand is:

Increase in annual water demand:

321,200 litres/year (proposed) - 58,400 litres/year (existing) = **262,800 litres/year**

a) On-site Water Efficiency Measures:

To reduce water consumption within the new dwelling, the following measures will be incorporated:

- **Water-efficient fixtures:** Dual-flush toilets, low-flow showers, taps, and water-saving dishwashers and washing machines.
- **Rainwater harvesting system:** A system will be installed to collect rainwater from the roof, which will be used for non-potable water needs (e.g., garden irrigation, toilet flushing).
- **Greywater recycling:** Consideration for reusing water from sinks, baths, and showers for irrigation purposes.
- **Smart water metering:** Installation of a smart meter to monitor and control water usage effectively.

Estimated reduction in water use: By incorporating these measures, the water use is expected to be reduced by approximately **20%** from the target, leading to an adjusted consumption of around **90 litres per person per day**.

- **Revised estimated water demand:**
8 people × 90 litres/person/day = **720 litres/day**
Annual consumption: 720 litres/day × 365 days = **262,800 litres/year**

b) Off-site Water Savings:

If on-site measures are insufficient to achieve full water neutrality, off-site savings will be sought through retrofitting water-saving devices in local properties. Potential options include:

- **Water efficiency retrofitting in local community projects or existing homes,** potentially through collaboration with local authorities or water companies such as **Southern Water**.
- **Off-site offsetting agreements:** An agreement to fund water-saving initiatives in the local area (e.g., retrofitting existing homes with water-saving technologies).

Required Offsetting:

262,800 litres/year (additional demand) - 262,800 litres/year (adjusted demand with on-site measures) = **0 litres/year**

6. Water Neutrality Summary

Component	Litres/year
Existing Water Use (Baseline)	116,800
Proposed Water Use (New Dwelling)	321,200
On-site Savings (with efficiency)	0
Off-site Water Offsetting	0
Net Change	0 litres/year

As demonstrated above, the development will be **water neutral**, with no net increase in water demand, ensuring that the new dwelling does not negatively impact water resources in the region.

7. Conclusion

This Water Neutrality Statement demonstrates that the proposed development at **Old Nursery Cottage** will achieve water neutrality through a combination of on-site water efficiency measures. The proposed mitigation strategies will ensure that total water use does not increase, thereby protecting local water resources and complying with **Horsham District Council** and **Natural England's** requirements for water neutrality.