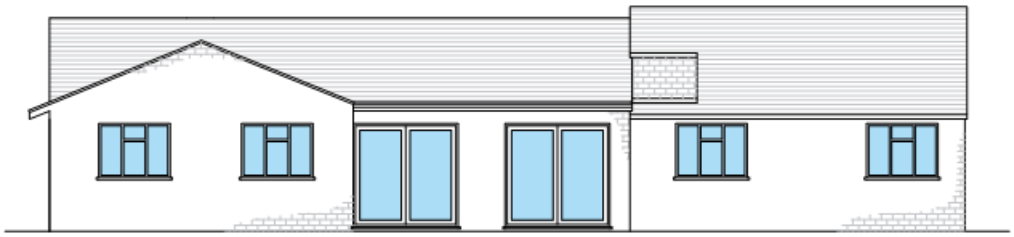
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WATER NEUTRALITY STATEMENT

Conversion of the existing residential property to a 7no. bedroom nursing suite – Brookfield, Homelands Nursing Home, Horsham Road, Cowfold, West Sussex, RH13 8AJ



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1. Introduction

The purpose of the report is to assist evaluating parties to understand the water consumption of the proposed development and consider its performance against the requirement for "water neutrality".

The proposed development consists of the conversion of an existing three-bedroom residential property to create a 7no. bedroom nursing suite. The proposed development is on the same site, and will be incorporated into an existing 31-bed nursing home. It is therefore possible to retrofit the existing nursing home with water efficient devices or water reuse systems, for the purpose of offsetting any remaining water consumption within the converted building, should this be required (see Stage 3 below).

2. Water neutrality

In line with best practice this development will follow the principals of the water neutrality hierarchy.

The water neutrality hierarchy has three priorities, seeking to reduce water use and reuse water where possible, before offsetting any remaining water consumption:

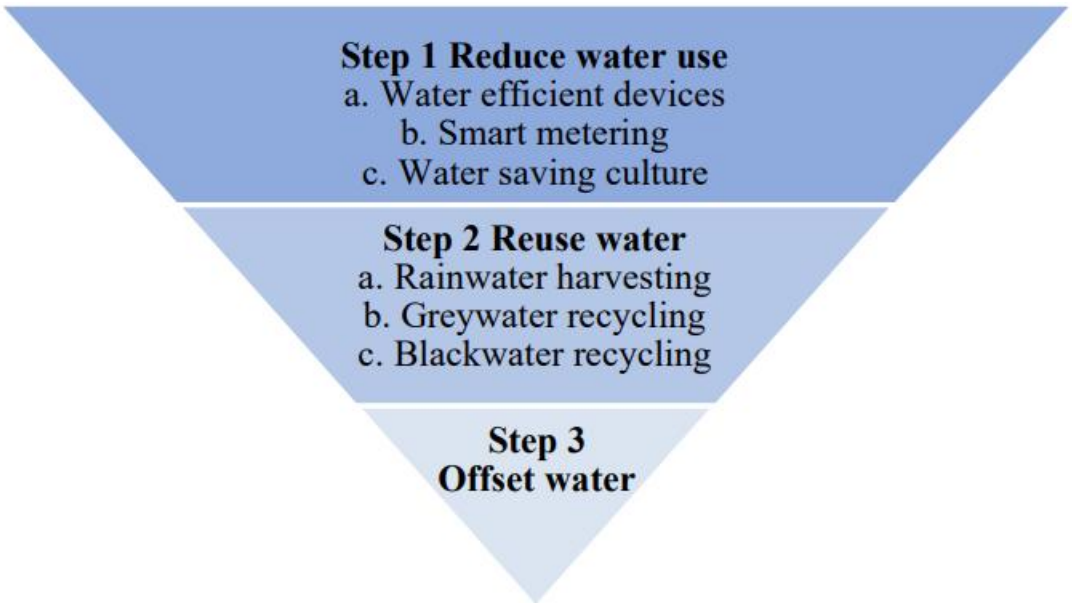
1. Reducing Water Use – The first and most important step to achieving water neutrality is to ensure that water is used as efficiently as possible. This is done by fitting homes with efficient products and designing them to encourage water saving behaviours. The smaller the water demand of a building due to its design and fittings the less water is needed to be reused and offset.

2. Water Reuse – Once water use is reduced to an ambitious level, water reuse should be considered. Water reuse generally refers to the capture, treatment (if required) and use of alternative water supplies for non-potable purposes. It includes rainwater and surface water harvesting, greywater recycling (typically the used water from baths, showers and hand basins) and wastewater recycling.

3. Offsetting – Finally, the remaining water requirement for the new home or development which can't be satisfied with non-potable sources needs to be offset. This can be done by investing in schemes that save water in the local region such as retrofitting existing buildings with water efficient devices or water reuse systems. The water saved through these schemes needs to be equal to the residual mains water usage of the new development in order to achieve water neutrality. The offset schemes also need to be within the same water resource zone as the new development.

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3. Baseline water use

The baseline water consumption for the existing bungalow has been calculated to be 134.03 l/p/d. This calculation has been completed using the LABC Approved Document G water consumption calculator and is based on measured data from the installed fittings (See Appendix C: Email correspondence confirming measurements taken on site and corresponding photographs).

As this is a three-bedroom dwelling, the total baseline water consumption is calculated to be 134.03 x 2.47 = 331.1 litres per day.

4. Step 1: Water use within the proposed new building

Water in the converted 7-bed nursing suite will be used as efficiently as possible.

The following water-saving design measures are proposed:

	Proposed development	Existing consumption (average by type)
Bathroom sink mixer tap flow rate	4 litres per minute	6 litres per minute
Kitchen tap flow rate	6 litres per minute	10 litres per minute
Sluice tap flow rate	6 litres per minute	No sluice
Dual flush WCs full flush / part flush volume	4.5 litres / 3 litres	6 litres / 4 litres
Shower flow rate	8 litres per minute	12 litres per minute

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	Proposed development	Existing consumption (average by type)
Dishwasher	0.73 litres per place setting	0.9 litres per place setting
Bath	No bath	210 litres capacity
Washing machine	No washing machine	7.89 L per kg dry load
Water softener	No water softener	No water softener
Waste disposal	No waste disposal	No waste disposal

Based on this design the water consumption for the proposed new 7-bed[1] nursing suite has been calculated to be 97.16 l/p/d. This equates to a total daily water consumption of 680.1 litres, which is an increase of 349.0 litres per day when compared to the baseline consumption for the existing bungalow.

Additional water consumption for staff:

According to a study by South Staffs Water, the average water consumption per employee to cover toilet and tea breaks is 50 litres per day. It is proposed that there shall be two additional members of staff operating on 24-hour rotation. Assuming an 8-hour shift, this requires an additional daily allocation of 300 litres of water consumption for staff.

5. Step 2: Re-use water

Having minimised water consumption within the new 7-bed nursing suite through the specification of water efficient fittings, it is proposed that a further reduction will be achieved though the installation of a rainwater harvesting system.

Rainwater harvesting calculation		
a)	Collection area (m^2)	217.5
b)	Yield co-efficient and hydraulic filter efficiency e.g. 0.7	0.8
c)	Rainfall (average mm/year)	808.0
d)	Daily rainwater collection (litres) [(a) x (b) x (c)]/365 =	385.2

With a collection area of 217.5 m^2, the rainwater harvesting system will provide a daily rainwater collection of 385.2 litres. However, as rainwater shall only be used for non-potable supply, the contribution has been capped to just cover the flushing of WC's. This equates to a

[1] Each room is single occupancy, so for the purpose of the water calculations the number of bedrooms has been noted as 6, which equates to 7 occupants.

saving of 108.3 litres per day, which leaves a daily water consumption of 871.8 litres (equating to excess consumption of 540.7 litres).

Note: rainwater storage capacity must cover 35 days of use. 35 x 108.3 litres per day equates to a minimum required storage capacity of 3,800 litres. Please see Appendix B: Site plan showing location of rainwater harvesting tank.

6. Step 3: Offsetting measures

Finally, the remaining excess water consumption of 540.7 litres per day shall be offset by retrofitting all showers within the existing 31-bed nursing home with water saving devices to reduce flow rates from the existing measured flow rate of 12 litres / minute to 8 litres / minute.

The following water saving devices shall be retrofitted within each flat:

	Retrofit works	Existing consumption
Shower flow rate	8 litres per minute	12 litres per minute

These retrofitting measures shall result in a saving of 22.4 litres per person per day (as calculated using the LABC Approved Document G water consumption calculator). The total saving will be 31 x 22.4 = 694.4 litres per day. This leaves a daily water consumption of 177.4 litres (equating to a net-reduction in water consumption of 153.7 litres per day when compared to the baseline).

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7. Results

	Total water consumption at the location of this development at each stage of the water hierarchy
Baseline water consumption at the site of the proposed development (existing three-bedroom bungalow)	331.1 litres per day
Step One: After change of use to create 7-bed nursing suite, complete with water efficient fittings. (+349.0 litres for residents and +300 litres for additional staff)	980.1 litres per day
Step Two: After addition of rainwater harvesting to 7-bed nursing suite (-108.3 litres)	871.8 litres per day
Step Three: After retrofitting 9.5 litre / minute water saving devices to all showers within the existing nursing home. (-694.4 litres)	177.4 litres per day

8. Conclusion

Through following the steps of the water neutrality hierarchy, and reducing water consumption within the existing nursing home located at the site of this development, it is possible for the proposed 7no. bedroom nursing suite to achieve water neutrality.

If the 7-bed nursing suite incorporates rainwater harvesting for non-potable water use only alongside the retrofitting of all showers within the existing 31-bed nursing home with water saving devices to reduce flow rates from 12 litres / minute to 8 litres / minute, then a net-reduction in water consumption of 153.7 litres per day will be achieved.

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9. Appendix A: Approved Document G water consumption calculation sheets

Water Efficiency Calculator for New Dwellings (V1f - Aug 2010)

Project Details

Adress/Reference	Existing bungalow: measured	Case Reference	
Number of Bedrooms	3	Occupancy for Calculation Purposes	4

Appliance/Useage Details

Taps (Excluding Kitchen Taps)

Tap Fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type
Ensuite basin tap	6.00	2	12.00
Bathroom tap	6.00	2	12.00
			0.00
			0.00
			0.00
			0.00
Total No. of Fittings (No.)		4	
Total Flow (l/s)			24.00
Maximum Flow (l/s)			6.00
Average Flow (l/s)			6.00
Weighted Average Flow (l/s)			4.20
Flow for Calculation (l/s)			**6.00**

Showers

Shower fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type
Ensuite shower	14.00	1	14.00
Shower attached to bath	10.00	1	10.00
			0.00
			0.00
			0.00
			0.00
Total No. of Fittings (No.)		2	
Total Flow (l/s)			24.00
Maximum Flow (l/s)			14.00
Average Flow (l/s)			12.00
Weighted Average Flow (l/s)			9.80
Flow for Calculation (l/s)			**12.00**

Baths

Bath Type	Capacity to Overflow	Quantity (No.)	Total per Fitting type
Bath	210.00	1	210.00
			0.00
			0.00
			0.00
Total No. of Fittings (No.)		1	
Total Capacity (l)			210.00
Maximum Capacity (l)			210.00
Average Capacity (l)			210.00
Weighted Average Capacity (l)			147.00
Capacity for Calculation (l)			**210.00**

WCs

WC Type	Full Flush Volume	Part Flush Volume	Quantity (No)
Ensuite WC	6.00	4.00	1
Bathroom WC	6.00	4.00	1
Total number of fittings			**2**
Average effective flushing volume			**4.67**

Dishwashers

Dishwasher Type	L per Place Setting	Quantity (No.)	Total per Fitting type
Candy CDPH 2L1049W-~	0.90	1	0.90
			0.00
Total No. of Fittings (No.)		1	
Total Consumption (l)			0.90
Maximum Consumption (l)			0.90
Average Consumption (l/s)			0.90
Weighted Average Consumption (l)			0.63
Consumption for Calculation (l/s)			**0.90**

Washing Machines

Washing Machine Type	L per Kg Dry Load	Quantity (No.)	Total per Fitting type
Hoover VT914D22X was	7.89	1	7.89
			0.00
Total No. of Fittings (No.)		1	
Total Consumption (l)			7.89
Maximum Consumption (l)			7.89
Average Consumption (l/s)			7.89
Weighted Average Consumption (l)			5.52
Consumption for Calculation (l/s)			**7.89**

Kitchen Taps

Tap Fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type
Kitchen cold tap	14.00	1	14.00
Kitchen hot tap	6.00	1	6.00
			0.00
Total No. of Fittings (No.)		2	
Total Flow (l/s)			20.00
Maximum Flow (l/s)			14.00
Average Flow (l/s)			10.00
Weighted Average Flow (l/s)			9.80
Flow for Calculation (l/s)			**10.00**

Other Fittings

Waste Disposal Y/N	N
Water softner	
Consumption beyond 4% l/p/d	0.00

Use of grey water and harvested rainwater

Total Grey water from WHB taps (l)	0
Total Availble Grey Water Supply (l)	302.16
Possible Demand (l)	148.78
Grey/Rain Installed Capacity (l)	
Figure for Calculation lit/person/day	0.00

Water Use Assessment

Installation Type	Unit	Capacity/ Flow Rate	Use Factor	Fixed use (l/p/day)	Total Use (l/p/day)
WC Single Flush	Volume (l)	0.00	4.42	0.00	0.00
WC Dual Flush	Full Flush (l)	0.00	1.46	0.00	0.00
	Pt Flush (l)	0.00	2.96	0.00	0.00
WC's (Multiple)	Volume (l)	4.67	4.42	0.00	20.63
Taps Exc. Kitchen	Flow Rate	6.00	1.58	1.58	11.06
Bath (shower present)	(l/s)	210.00	0.11	0.00	23.10
Shower (bath present)	(l/s)	12.00	4.37	0.00	52.44
Bath Only	(l)	0.00	0.50	0.00	0.00
Shower Only	(l/s)	0.00	5.60	0.00	0.00
Kitchen Taps	(l/s)	10.00	0.44	10.36	14.76
Washing Machines	(l/kgdry)	7.89	2.10	0.00	16.57
Dishwashers	(l/place)	0.90	3.60	0.00	3.24
Waste Disposal	(l/s)	0.00	3.08	0.00	0.00
Water Softner	(l/s)	0.00	1.00	0.00	0.00
Total Calculated Water Use (l/p/day)					**141.80**
Grey/RainWater Reused (l)					0.00
Normalisation Factor	(Factor)				0.91
Total Consumption CSH (l/p/day)					**129.03**
External Water Use Allowance (l)					5.00
Total Comsumption Part G (l/p/day)					**134.03**

Assesment Result: **FAIL**

Existing Bungalow Baseline

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Water Efficiency Calculator for New Dwellings (V1f - Aug 2010)

Project Details

Adress/Reference	7-bed Nursing Suite	Case Reference	
Number of Bedrooms	6	Occupancy for Calculation Purposes	7

Appliance/Useage Details

Taps (Excluding Kitchen Taps)

Tap Fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type
Bathroom / WC sink mixe	4.00	9	36.00
Sluice tap	6.00	1	6.00
			0.00
			0.00
			0.00
			0.00
Total No. of Fittings (No.)		10	
Total Flow (l/s)			42.00
Maximum Flow (l/s)			6.00
Average Flow (l/s)			4.20
Weighted Average Flow (l/s)			4.20
Flow for Calculation (l/s)			**4.20**

Showers

Shower fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type
Shower	8.00	9	72.00
			0.00
			0.00
			0.00
			0.00
			0.00
Total No. of Fittings (No.)		9	
Total Flow (l/s)			72.00
Maximum Flow (l/s)			8.00
Average Flow (l/s)			8.00
Weighted Average Flow (l/s)			5.60
Flow for Calculation (l/s)			**8.00**

Baths

Bath Type	Capacity to Overflow	Quantity (No.)	Total per Fitting type
			0.00
			0.00
			0.00
			0.00
Total No. of Fittings (No.)		0	
Total Capacity (l)			0.00
Maximum Capacity (l)			0.00
Average Capacity (l)			0.00
Weighted Average Capacity (l)			0.00
Capacity for Calculation (l)			**0.00**

WCs

WC Type	Full Flush Volume	Part Flush Volume	Quantity (No)
WC dual flush	4.50	3.00	9
Total number of fittings			**9**
Average effective flushing volume			**3.50**

Dishwashers

Dishwasher Type	L per Place Setting	Quantity (No.)	Total per Fitting type
Dishwasher	0.73	1	0.73
			0.00
Total No. of Fittings (No.)		1	
Total Consumption (l)			0.73
Maximum Consumption (l)			0.73
Average Consumption (l/s)			0.73
Weighted Average Consumption (l)			0.51
Consumption for Calculation (l/s)			**0.73**

Washing Machines

Washing Machine Type	L per Kg Dry Load	Quantity (No.)	Total per Fitting type
			0.00
			0.00
Total No. of Fittings (No.)		0	
Total Consumption (l)			8.17
Maximum Consumption (l)			8.17
Average Consumption (l/s)			8.17
Weighted Average Consumption (l)			5.72
Consumption for Calculation (l/s)			**8.17**

Kitchen Taps

Tap Fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type
Kitchen tap	6.00	1	6.00
			0.00
			0.00
Total No. of Fittings (No.)		1	
Total Flow (l/s)			6.00
Maximum Flow (l/s)			6.00
Average Flow (l/s)			6.00
Weighted Average Flow (l/s)			4.20
Flow for Calculation (l/s)			**6.00**

Other Fittings

Waste Disposal Y/N	N
Water softner	
Consumption beyond 4% l/p/d	0.00

Use of grey water and harvested rainwater

Total Grey water from WHB taps (l)	0
Total Availble Grey Water Supply (l)	313.60
Possible Demand (l)	228.39
Grey/Rain Installed Capacity (l)	
Figure for Calculation lit/person/day	0.00

Water Use Assessment

Installation Type	Unit	Capacity/ Flow Rate	Use Factor	Fixed use (l/p/day)	Total Use (l/p/day)	
WC Single Flush	Volume (l)	0.00	4.42	0.00	0.00	
WC Dual Flush	Full Flush (l)	0.00	1.46	0.00	0.00	
	Pt Flush (l)	0.00	2.96	0.00	0.00	
WC's (Multiple)	Volume (l)	3.50	4.42	0.00	15.47	
Taps Exc. Kitchen	Flow Rate	4.20	1.58	1.58	8.22	
Bath (shower present)	(l/s)	0.00	0.11	0.00	0.00	
Shower (bath present)	(l/s)	0.00	4.37	0.00	0.00	
Bath Only	(l)	0.00	0.50	0.00	0.00	
Shower Only	(l/s)	8.00	5.60	0.00	44.80	
Kitchen Taps	(l/s)	6.00	0.44	10.36	13.00	
Washing Machines	(l/kgdry)	8.17	2.10	0.00	17.16	<< Note - these may be default values.
Dishwashers	(l/place)	0.73	3.60	0.00	2.63	<< You can change them by entering
Waste Disposal	(l/s)	0.00	3.08	0.00	0.00	___the actual applicances in the
Water Softner	(l/s)	0.00	1.00	0.00	0.00	___appropriate sections above
Total Calculated Water Use (l/p/day)					**101.27**	
Grey/RainWater Reused (l)					0.00	
Normalisation Factor	(Factor)				0.91	
Total Consumption CSH (l/p/day)					**92.16**	
External Water Use Allowance (l)					5.00	
Total Comsumption Part G (l/p/day)					**97.16**	

Assesment Result	**PASS**

New Nursing Suite Stage 1

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Water Efficiency Calculator for New Dwellings (V1f - Aug 2010)

Project Details

Adress/Reference	7-bed Nursing Suite	Case Reference	
Number of Bedrooms	6	Occupancy for Calculation Purposes	7

Appliance/Useage Details

Taps (Excluding Kitchen Taps)

Tap Fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type
Bathroom / WC sink mixe	4.00	9	36.00
Sluice tap	6.00	1	6.00
			0.00
			0.00
			0.00
			0.00
Total No. of Fittings (No.)		10	
Total Flow (l/s)			42.00
Maximum Flow (l/s)			6.00
Average Flow (l/s)			4.20
Weighted Average Flow (l/s)			4.20
Flow for Calculation (l/s)			**4.20**

Showers

Shower fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type
Shower	8.00	9	72.00
			0.00
			0.00
			0.00
			0.00
			0.00
Total No. of Fittings (No.)		9	
Total Flow (l/s)			72.00
Maximum Flow (l/s)			8.00
Average Flow (l/s)			8.00
Weighted Average Flow (l/s)			5.60
Flow for Calculation (l/s)			**8.00**

Baths

Bath Type	Capacity to Overflow	Quantity (No.)	Total per Fitting type
			0.00
			0.00
			0.00
			0.00
Total No. of Fittings (No.)		0	
Total Capacity (l)			0.00
Maximum Capacity (l)			0.00
Average Capacity (l)			0.00
Weighted Average Capacity (l)			0.00
Capacity for Calculation (l)			**0.00**

WCs

WC Type	Full Flush Volume	Part Flush Volume	Quantity (No)
WC dual flush	4.50	3.00	9
Total number of fittings			**9**
Average effective flushing volume			**3.50**

Dishwashers

Dishwasher Type	L per Place Setting	Quantity (No.)	Total per Fitting type
Dishwasher	0.73	1	0.73
			0.00
Total No. of Fittings (No.)		1	
Total Consumption (l)			0.73
Maximum Consumption (l)			0.73
Average Consumption (l/s)			0.73
Weighted Average Consumption (l)			0.51
Consumption for Calculation (l/s)			**0.73**

Washing Machines

Washing Machine Type	L per Kg Dry Load	Quantity (No.)	Total per Fitting type
			0.00
			0.00
Total No. of Fittings (No.)		0	
Total Consumption (l)			8.17
Maximum Consumption (l)			8.17
Average Consumption (l/s)			8.17
Weighted Average Consumption (l)			5.72
Consumption for Calculation (l/s)			**8.17**

Kitchen Taps

Tap Fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type
Kitchen tap	6.00	1	6.00
			0.00
			0.00
Total No. of Fittings (No.)		1	
Total Flow (l/s)			6.00
Maximum Flow (l/s)			6.00
Average Flow (l/s)			6.00
Weighted Average Flow (l/s)			4.20
Flow for Calculation (l/s)			**6.00**

Other Fittings

Waste Disposal Y/N	N
Water softner	
Consumption beyond 4% l/p/d	0.00

Use of grey water and harvested rainwater

Total Grey water from WHB taps (l)	0
Total Availble Grey Water Supply (l)	313.60
Possible Demand (l)	228.39
Grey/Rain Installed Capacity (l)	108.29
Figure for Calculation lit/person/day	15.47

Water Use Assessment

Installation Type	Unit	Capacity/ Flow Rate	Use Factor	Fixed use (l/p/day)	Total Use (l/p/day)	
WC Single Flush	Volume (l)	0.00	4.42	0.00	0.00	
WC Dual Flush	Full Flush (l)	0.00	1.46	0.00	0.00	
	Pt Flush (l)	0.00	2.96	0.00	0.00	
WC's (Multiple)	Volume (l)	3.50	4.42	0.00	15.47	
Taps Exc. Kitchen	Flow Rate	4.20	1.58	1.58	8.22	
Bath (shower present)	(l/s)	0.00	0.11	0.00	0.00	
Shower (bath present)	(l/s)	0.00	4.37	0.00	0.00	
Bath Only	(l)	0.00	0.50	0.00	0.00	
Shower Only	(l/s)	8.00	5.60	0.00	44.80	
Kitchen Taps	(l/s)	6.00	0.44	10.36	13.00	
Washing Machines	(l/kgdry)	8.17	2.10	0.00	17.16	<< Note - these may be default values.
Dishwashers	(l/place)	0.73	3.60	0.00	2.63	<< You can change them by entering
Waste Disposal	(l/s)	0.00	3.08	0.00	0.00	the actual applicances in the
Water Softner	(l/s)	0.00	1.00	0.00	0.00	appropriate sections above
Total Calculated Water Use (l/p/day)					**101.27**	
Grey/RainWater Reused (l)					15.47	
Normalisation Factor	(Factor)				0.91	
Total Consumption CSH (l/p/day)					**78.08**	
External Water Use Allowance (l)					5.00	
Total Comsumption Part G (l/p/day)					**83.08**	

Assesment Result	**PASS**

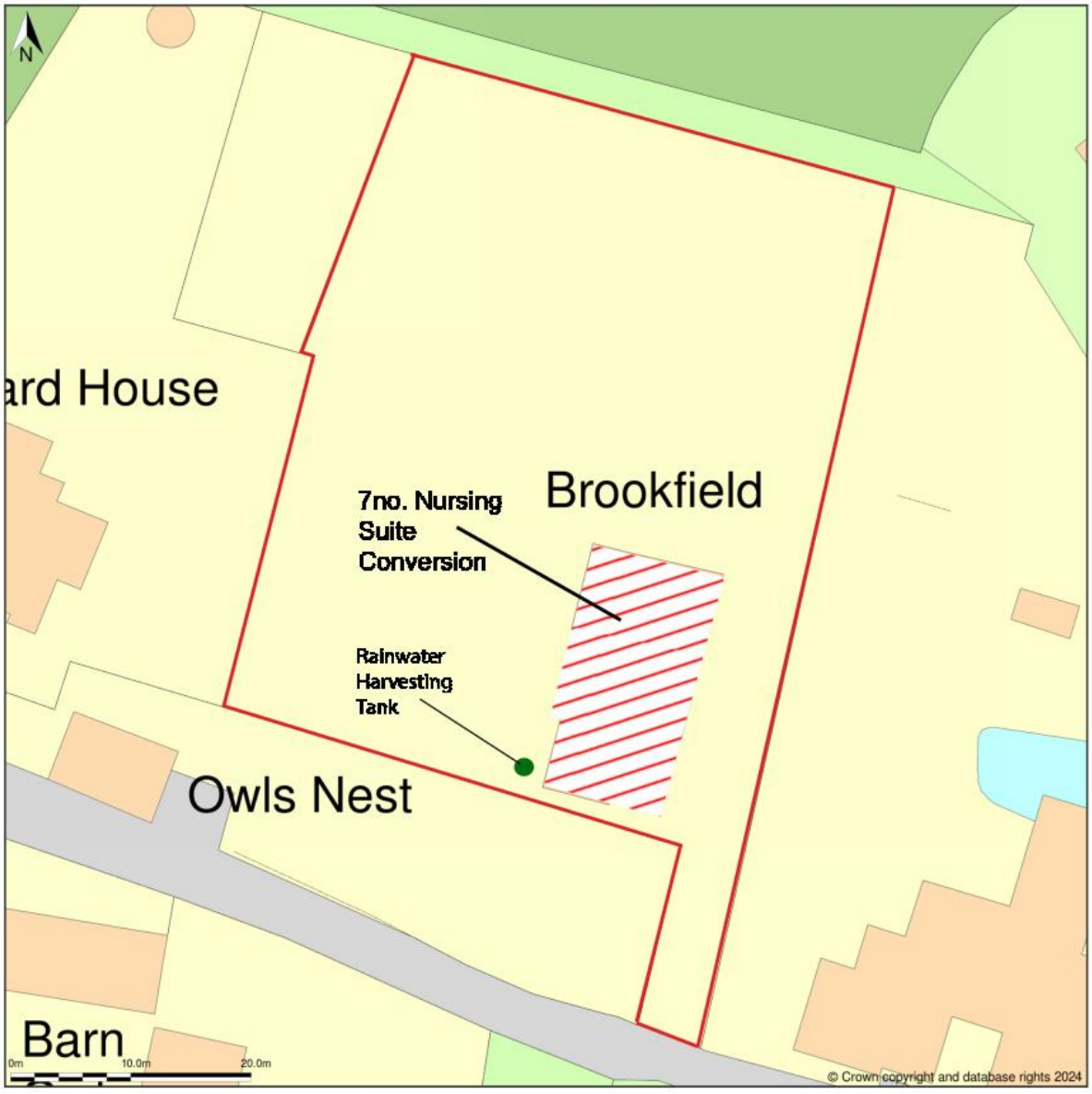
New Nursing Suite Stage 2

4 St John's Road
Tunbridge Wells
Kent TN4 9NP

Tel: 01892 315 466
sales@energy-test.co.uk
www.energy-test.co.uk

10. Appendix B: Site plan showing location of rainwater harvesting tank

Brookfield Homelands, Horsham Road, Cowfold, West Sussex, RH13 8AJ



Site Plan (also called a Block Plan) shows area bounded by: 521272.76, 123751.14 521362.76, 123841.14 (at a scale of 1:500), OSGridRef: TQ21312379. The representation of a road, track or path is no evidence of a right of way. The representation of features as lines is no evidence of a property boundary.

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11. Appendix C: Email correspondence confirming measurements taken on site

Subject:
From: "Ian Earnshaw" <ian.camelot1@gmail.com>
Sent: 02/04/2025 06:34:46
To: e.powell@3dplanningdesign.co.uk; sales@achievegreen.co.uk; chrisha1@icloud.com
Attachments: Shower.jpg; WC.jpg; basin tap.jpg; bath filler.jpg; pump.jpg; kitchen.jpg

Good morning,
The water usage & flow rates, taken with a weir cup, from Brookfield Bungalow are as follows. I have also attached photos of the taps & toilet cisterns, if you need anything else please let me know, Ian

En-suite shower room
Shower with pump, 2 bar twin impeller 14 L/m X 1
Basin tap, gravity supply, hot tap 6 L/m
Basin tap, gravity supply, cold tap 6 L/m
6 & 4 L dual flush WC

Family bathroom
Bath tap, gravity supply, hot tap 16 L/m
Bath tap, gravity supply, cold tap 17 L/m
Basin tap, gravity supply, hot tap 6 L/m
Basin tap, gravity supply, cold tap 6 L/m
6 & 4 L dual flush WC

Kitchen
Hoover washing machine, average consumption 71 L per load
Candy slimline dishwasher, eco programme water consumption 9 L/cycle
Sink tap, gravity supply, hot tap 6 L/m
Sink tap, mains supply, cold tap 14 L/m

Subject: Re:
From: "Ian Earnshaw" <ian.camelot1@gmail.com>
Sent: 04/04/2025 15:11:00
To: "Jonathan Southworth" <sales@achievegreen.co.uk>

Hello Jonathan, the washing machine is Hoover vision tech VT 914 D22X and d washer is Candy CDPH 2L 1049W-80
Thank you, Ian

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Photograph attachments to emails:

Existing kitchen tap



Existing bathroom tap (same in ensuite)



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Existing bathroom WC (same in ensuite)



Existing ensuite shower



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Tel: 01892 315 466
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Existing bath with shower



4 St John's Road
Tunbridge Wells
Kent TN4 9NP

Tel: 01892 315 466
sales@energy-test.co.uk
www.energy-test.co.uk

12. Appendix D: Photographs showing process of taking flow rate measurements on site



