

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

### Project Details

|                    |  |                                    |                        |
|--------------------|--|------------------------------------|------------------------|
| Address/Reference  | 11a Tasmania Terrace, Enfield, N18 1AX | Case Reference                     | 7358-0001-TMG202001233 |
| Number of Bedrooms | 3                                      | Occupancy for Calculation Purposes | 4                      |

### Appliance/Useage Details

#### Taps (Excluding Kitchen Taps)

| Tap Fitting Type                   | Flow Rate<br>Litres/Min | Quantity<br>(No.) | Total per<br>Fitting type |
|------------------------------------|-------------------------|-------------------|---------------------------|
| Bathroom basin mixer               | 4.00                    | 2                 | 8.00                      |
|                                    |                         |                   | 0.00                      |
|                                    |                         |                   | 0.00                      |
|                                    |                         |                   | 0.00                      |
|                                    |                         |                   | 0.00                      |
|                                    |                         |                   | 0.00                      |
| <b>Total No. of Fittings (No.)</b> |                         | 2                 |                           |
| <b>Total Flow (l/s)</b>            |                         |                   | 8.00                      |
| <b>Maximum Flow (l/s)</b>          |                         |                   | 4.00                      |
| <b>Average Flow (l/s)</b>          |                         |                   | 4.00                      |
| <b>Weighted Average Flow (l/s)</b> |                         |                   | 2.80                      |
| <b>Flow for Calculation (l/s)</b>  |                         |                   | 4.00                      |

#### Showers

| Shower fitting<br>Type             | Flow Rate<br>Litres/Min | Quantity<br>(No.) | Total per<br>Fitting type |
|------------------------------------|-------------------------|-------------------|---------------------------|
| Over bath showers                  | 9.00                    | 2                 | 18.00                     |
|                                    |                         |                   | 0.00                      |
|                                    |                         |                   | 0.00                      |
|                                    |                         |                   | 0.00                      |
|                                    |                         |                   | 0.00                      |
|                                    |                         |                   | 0.00                      |
| <b>Total No. of Fittings (No.)</b> |                         | 2                 |                           |
| <b>Total Flow (l/s)</b>            |                         |                   | 18.00                     |
| <b>Maximum Flow (l/s)</b>          |                         |                   | 9.00                      |
| <b>Average Flow (l/s)</b>          |                         |                   | 9.00                      |
| <b>Weighted Average Flow (l/s)</b> |                         |                   | 6.30                      |
| <b>Flow for Calculation (l/s)</b>  |                         |                   | 9.00                      |

#### Baths

| Bath Type                            | Capacity to<br>Overflow | Quantity<br>(No.) | Total per<br>Fitting type |
|--------------------------------------|-------------------------|-------------------|---------------------------|
| 165 litre bath                       | 165.00                  | 2                 | 330.00                    |
|                                      |                         |                   | 0.00                      |
|                                      |                         |                   | 0.00                      |
|                                      |                         |                   | 0.00                      |
| <b>Total No. of Fittings (No.)</b>   |                         | 2                 |                           |
| <b>Total Capacity (l)</b>            |                         |                   | 330.00                    |
| <b>Maximum Capacity (l)</b>          |                         |                   | 165.00                    |
| <b>Average Capacity (l)</b>          |                         |                   | 165.00                    |
| <b>Weighted Average Capacity (l)</b> |                         |                   | 115.50                    |
| <b>Capacity for Calculation (l)</b>  |                         |                   | 165.00                    |

#### WCs

| WC Type                                  | Full Flush<br>Volume | Part Flush<br>Volume | Quantity<br>(No.) |
|--|----------------------|----------------------|-------------------|
| Dual flush WC                            | 4.50                 | 3.00                 | 2                 |
|  |                      |                      |                   |
|  |                      |                      |                   |
|  |                      |                      |                   |
| <b>Total number of fittings</b>          |                      |                      | 2                 |
| <b>Average effective flushing volume</b> |                      |                      | 3.50              |

#### Dishwashers

| Dishwasher Type                          | L per Place<br>Setting | Quantity<br>(No.) | Total per<br>Fitting type |
|--|------------------------|-------------------|---------------------------|
| Dishwasher                               | 0.95                   | 1                 | 0.95                      |
|  |                        |                   | 0.00                      |
| <b>Total No. of Fittings (No.)</b>       |                        | 1                 |                           |
| <b>Total Consumption (l)</b>             |                        |                   | 0.95                      |
| <b>Maximum Consumption (l)</b>           |                        |                   | 0.95                      |
| <b>Average Consumption (l/s)</b>         |                        |                   | 0.95                      |
| <b>Weighted Average Consumption (l)</b>  |                        |                   | 0.67                      |
| <b>Consumption for Calculation (l/s)</b> |                        |                   | 0.95                      |

#### Washing Machines

| Washing Machine<br>Type                  | L per Kg<br>Dry Load | Quantity<br>(No.) | Total per<br>Fitting type |
|--|----------------------|-------------------|---------------------------|
| Washing machine                          | 6.00                 | 1                 | 6.00                      |
|  |                      |                   | 0.00                      |
| <b>Total No. of Fittings (No.)</b>       |                      | 1                 |                           |
| <b>Total Consumption (l)</b>             |                      |                   | 6.00                      |
| <b>Maximum Consumption (l)</b>           |                      |                   | 6.00                      |
| <b>Average Consumption (l/s)</b>         |                      |                   | 6.00                      |
| <b>Weighted Average Consumption (l)</b>  |                      |                   | 4.20                      |
| <b>Consumption for Calculation (l/s)</b> |                      |                   | 6.00                      |

#### Kitchen Taps

| Tap Fitting Type                   | Flow Rate<br>Litres/Min | Quantity<br>(No.) | Total per<br>Fitting type |
|------------------------------------|-------------------------|-------------------|---------------------------|
| Kitchen Mixer                      | 6.00                    | 1                 | 6.00                      |
|                                    |                         |                   | 0.00                      |
|                                    |                         |                   | 0.00                      |
| <b>Total No. of Fittings (No.)</b> |                         | 1                 |                           |
| <b>Total Flow (l/s)</b>            |                         |                   | 6.00                      |
| <b>Maximum Flow (l/s)</b>          |                         |                   | 6.00                      |
| <b>Average Flow (l/s)</b>          |                         |                   | 6.00                      |
| <b>Weighted Average Flow (l/s)</b> |                         |                   | 4.20                      |
| <b>Flow for Calculation (l/s)</b>  |                         |                   | 6.00                      |

#### Other Fittings

|                             |   |
|-----------------------------|---|
| Waste Disposal Y/N          | n |
| Water softner               |   |
| Consumption beyond 4% l/p/d |   |

#### Use of grey water and harvested rainwater

|                                       |        |
|---------------------------------------|--------|
| Total Grey water from WHB taps (l)    |        |
| Total Available Grey Water Supply (l) | 229.92 |
| Possible Demand (l)                   | 112.28 |
| Grey/Rain Installed Capacity (l)      |        |
| Figure for Calculation lit/person/day | 0.00   |

### Water Use Assessment

| Installation Type                           | Unit           | Capacity/<br>Flow Rate | Use Factor | Fixed use<br>(l/p/day) | Total Use<br>(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      | 4.00                   | 1.58       | 1.58                   | 7.90                   |
| Bath (shower present)                       | (l/s)          | 165.00                 | 0.11       | 0.00                   | 18.15                  |
| Shower (bath present)                       | (l/s)          | 9.00                   | 4.37       | 0.00                   | 39.33                  |
| 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)          | 6.00                   | 0.44       | 10.36                  | 13.00                  |
| Washing Machines                            | (l/kgdry)      | 6.00                   | 2.10       | 0.00                   | 12.60                  |
| Dishwashers                                 | (l/place)      | 0.95                   | 3.60       | 0.00                   | 3.42                   |
| Waste Disposal                              | (l/s)          | 0.00                   | 3.08       | 0.00                   | 0.00                   |
| Water Softner                               | (l/s)          | 0.00                   | 1.00       | 0.00                   | 0.00                   |
| <b>Total Calculated Water Use (l/p/day)</b> |                |                        |            |                        | <b>109.87</b>          |
| Grey/RainWater Reused (l)                   |                |                        |            |                        | 0.00                   |
| Normalisation Factor (Factor)               |                |                        |            |                        | 0.91                   |
| <b>Total Consumption CSH (l/p/day)</b>      |                |                        |            |                        | <b>99.98</b>           |
| External Water Use Allowance (l)            |                |                        |            |                        | 5.00                   |
| <b>Total Consumption Part G (l/p/day)</b>   |                |                        |            |                        | <b>104.98</b>          |

Assesment Result

**PASS**