

(for members room)

Appendix 2: Calculation for Retrofitting Existing Dwellings with Water Efficiency Measures

WC

| | | |
|-------------------|---------------------------|-----|
| Current cistern | litres | 9 |
| New cistern | litres | 5 |
| Flushes frequency | per person per day | 8.5 |
| Savings | litres per person per day | 34 |

Bath to shower

| | | |
|--------------------|---------------------------|------|
| Bath capacity | litres | 149 |
| Bath to overflow | litres | 140 |
| Average bath fill | litres | 120 |
| Shower flow | litres per minute | 9 |
| Shower duration | minutes | 7.5 |
| Bath frequency | per person per day | 0.6 |
| Shower frequency | per person per day | 1 |
| Bath water usage | litres per person per day | 92 |
| Shower water usage | litres per person per day | 67.5 |
| Total bath savings | litres per person per day | 24.5 |

Total

| | | |
|-------------------|------------------------------|-------|
| Total Saving | litres per person per day | 58.5 |
| Average household | people per household | 2.4 |
| Total saving | litres per household per day | 140.4 |

New Dwelling

| | | |
|------------------------|------------------------------|-----|
| Total water use | litres per person per day | 110 |
| Average household size | people per household | 2.4 |
| Total water use use | litres per household per day | 264 |

Retrofits needed for 1 new dwelling

Number of retrofits needed to counteract 1
new house
with 10% buffer

1.9
2.1