



Job no:	Abba Energy Ltd Job #081373
Date:	20/09/2016
Assessor name:	Julian Williams
Registration no:	BRE Reg JW07
Development name:	81 Avenue Road, London, NW8 6JD
Issue Date:	20/09/2016

Rainwater

Greywater

Results

**WATER EFFICIENCY CALCULATOR FOR NEW DWELLINGS**  
(for use with the Code for Sustainable Homes issues Wat 1 for the May 2009 and subsequent versions)

Dwelling Description	Single House
----------------------	--------------

**1st step - Select from options below:**

Is a Rain and/or Greywater system specified?	No
Is a shower AND bath present?	Yes
Has a washing machine been specified?	Yes
Has a dishwasher been specified?	Yes

**2nd step - Build spreadsheet (click button below)**

BUILD SPREADSHEET

As soon as this button is pressed the spreadsheet will change according to the options selected previously in the 1st step. Scroll down to see the changes.

**3rd step - Enter consumption details for the specified fittings**

TAPS (excluding kitchen taps)		Fitting type	Flow rate (litres/min)	Number of fittings
	1	WHB	3.00	1
	2			
	3			
	4			
	Proportionate flow rate (litres/min)			2.10
	Consumption / person / day (Litres)			6.32

BATHS		Fitting type	Capacity to overflow (litres)	Number of fittings
	1	All	200.00	1
	2			
	3			
	4			
	Proportionate capacity to overflow (litres)			140.00
	Consumption / person / day (Litres)			22.00

SHOWERS		Fitting type	Flow rate (litres/min)	Number of fittings
	1	Overhead rose	9.00	1
	2	Handshower	7.00	1
	3			
	4			
	Proportionate flow rate (litres/min)			6.30
	Consumption / person / day (Litres)			34.96

DISHWASHER		Fitting Type	Litres per place setting	Number of fittings
	1	All	0.80	1
	2			
	3			
	4			
	Proportionate litres per place setting			0.56
	Consumption / person / day (Litres)			2.88

WASHING MACHINES		Fitting Type	Litres per kilogram of dry load	Number of fittings
	1	All	6.00	1
	2			
	3			

4				
Where no washing machines have been specified but plumbing for future supply of grey/rainwater was installed, please enter details:				
		Proportionate of litres/kg of dry load	4.20	
		Consumption / person / day (Litres)	12.60	
WC's				
	Fitting Type	Flush Type	Volume**	Number of fittings
1	All	Full Flush	6.00	1
		Part Flush	3.00	
2		Full Flush		
		Part Flush		
3		Full Flush		
		Part Flush		
4		Full Flush		
		Part Flush		
		Average effective flushing volume (litres)	3.99	
		Consumption / person / day (Litres)	17.64	
KITCHEN SINK TAPS				
	Fitting Type	Flow rate (litres/minute)	Number of fittings	
1 2 3 4	All	8.00	1	
		Proportionate flow rate (litres/min)	5.60	
		Consumption / person / day (Litres)	13.88	
WASTE DISPOSAL UNIT				
Is a waste disposal unit specified for the dwelling?			Yes	
		Consumption / person / day (Litres)	3.08	
WATER SOFTENER				
Water Softener in use?			Yes (Individual)	
Total capacity used per regeneration (%)			0.38	

Water consumed per regeneration (litres)		2310.00
Average number of regeneration cycles per day (No.)		62.40
Number of occupants served by the system (No.)		10.00
	Water consumed beyond 4% person / day (Litres)	0.00

4th step - Analyse Results	<a href="#">Go to Start</a>
----------------------------	-----------------------------

INTERNAL WATER CONSUMPTION		
NET INTERNAL WATER CONSUMPTION	(litres/person/day)	113.36
RAINWATER ONLY COLLECTION SAVING	(litres/person/day)	0.00
GREYWATER ONLY RECYCLING SAVING	(litres/person/day)	0.00
RAIN/GREYWATER COLLECTION SAVING (combined system)	(litres/person/day)	0.00
NORMALISATION FACTOR	(litres/person/day)	0.91
TOTAL WATER CONSUMPTION	(litres/person/day)	103.2
CSH CREDITS ACHIEVED		3
CSH MANDATORY LEVEL:		Level 3/4

17. K COMPLIANCE		
EXTERNAL WATER USE	(litres / person / day)	5.00
TOTAL WATER CONSUMPTION	(litres / person / day)	108.2
17. K COMPLIANCE?		Yes

BRE Global 2010. BRE Certification is a registered trademark owned by BRE Global and may not be used without BRE Global's written permission.

Permission is given for this tool to be copied without infringement of copyright for use only on projects where a Code for Sustainable Homes assessment is carried out. Whilst every care is taken in preparing the Wat 1 assessment tool, BREG cannot accept responsibility for any inaccuracies or for consequential loss incurred as a result of such inaccuracies arising through the use of the Wat 1 tool.

**PRINTING:** before printing please make sure that in "Page Setup" you have selected the page to be as "Landscape" and that the Scale has been set up to 75% (maximum)