

Water Resources Planning Guideline supply-demand workbook - Version 2.8

Instructions for completing these tables is contained within chapters 13 - 22 of the Water Resources Planning Guideline

The Guideline and tables are available on the Environment Agency website at www.environment-agency.gov.uk/business/sectors/39687.aspx

All queries on the content of this workbook should be sent to water-company-plans@ea.gov.uk

Yellow shaded cells are calculated cells. Do not input data to these cells.

Blue shaded cells represent the base-year data (**Scenario Year 2006-07**)

Shaded cells do not require any input

Shaded cells require input where data is available

Resource Zone and sign off information:

Please enter the information below to identify this workbook. This will be copied through to all work sheets.

Company: Thames Water
Resource Zone Name: Kennet Valley
Resource Zone Number: 3 of 6
Planning Scenario Name: Dry Year Annual Average
Chosen Level of Service: Company Preferred Level of Service

Responsible Officer: David Spiller Signed: _____ Dated: 05/12/2011

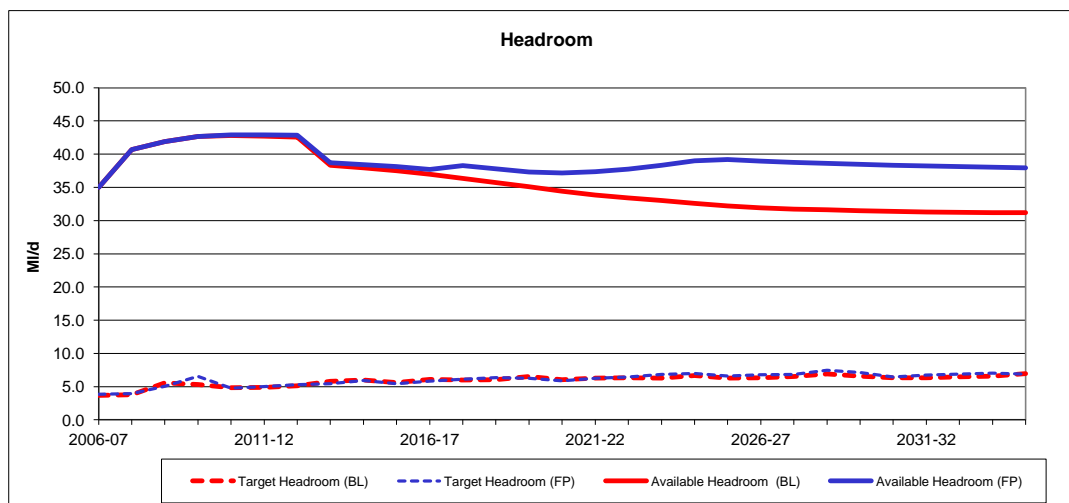
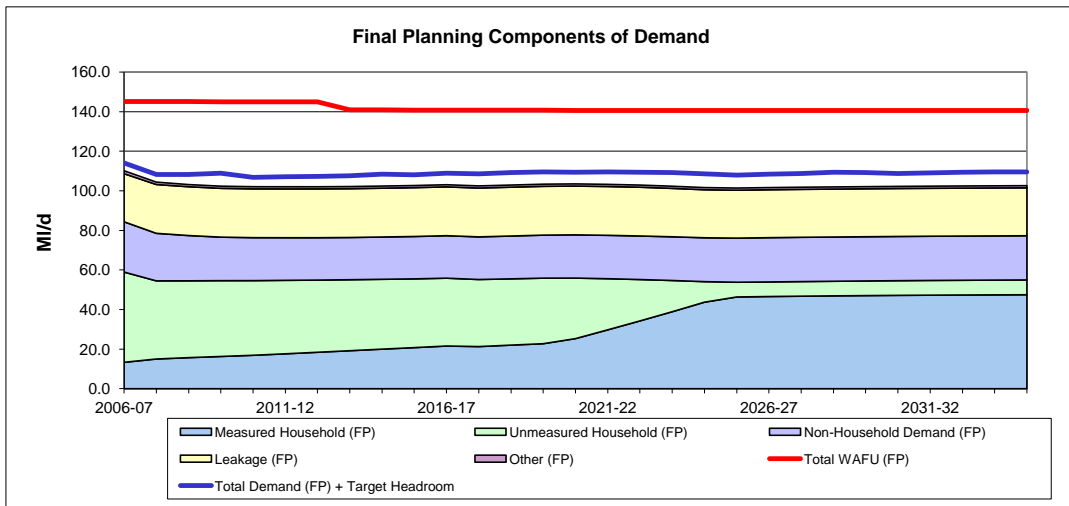
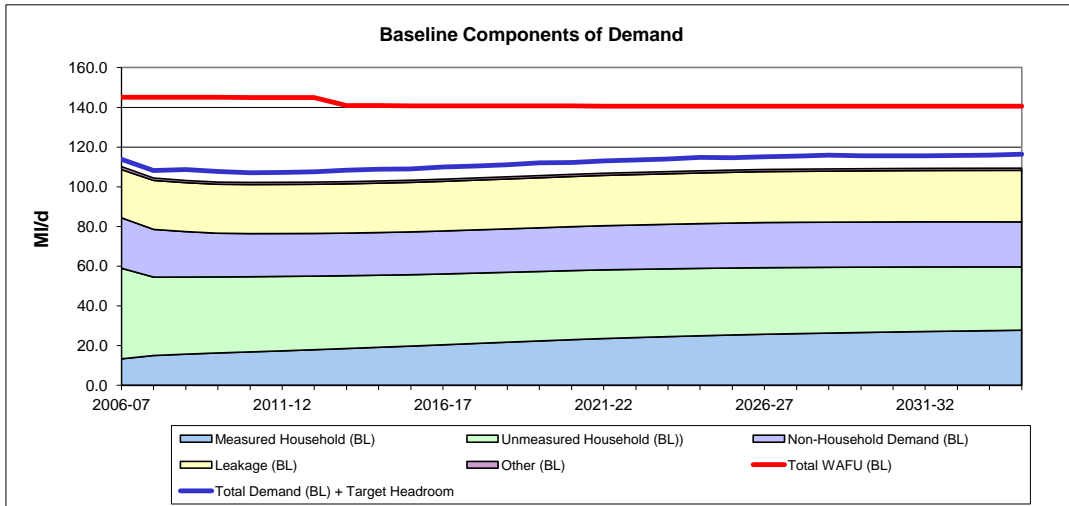
Version: Draft Final WRMP

* delete as appropriate

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Company:	Thames Water
Resource Zone Name:	Kennet Valley
Resource Zone Number:	3 of 6
Planning Scenario Name:	Dry Year Annual Average
Chosen Level of Service:	Company Preferred Level of Service

Table WRP1a-BL: Baseline WRP1 supporting transfer and DO reductions data

ROW Ref.	DERIVATION	DESCRIPTION <i>(insert/delete non-numbered lines to suit)</i>	UNITS	Scenario	Year																												
				2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	
2a _{BL}	Input as appropriate	Reductions in Baseline Deployable Output. Total here and specify below	M/d	0.00	0.00	0.03	0.07	0.10	0.13	0.16	4.20	4.23	4.26	4.29	4.33	4.36	4.39	4.41	4.42	4.43	4.44	4.45	4.46	4.47	4.48	4.49	4.50	4.50	4.51	4.52	4.53	4.54	
		<i>Climate change</i>	M/d	0.00	0.00	0.03	0.07	0.10	0.13	0.16	0.20	0.23	0.26	0.29	0.33	0.36	0.39	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.50	0.51	0.52	0.53	0.54	
		<i>Sustainability Reduction</i>	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	
		<i>Network Constraints</i>	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			M/d																														
7a _{BL}	Input as appropriate	Baseline Raw Water Exported (existing). Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		to	M/d																														
		to	M/d																														
		to	M/d																														
8a _{BL}	Input as appropriate	Baseline Raw Water Imported (existing). Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		from	M/d																														
		from	M/d																														
		from	M/d																														
10a _{BL}	Input as appropriate	Baseline Non Potable Supplies (existing). Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		to	M/d																														
		to	M/d																														
		to	M/d																														
12a _{BL}	Input as appropriate	Baseline Potable Water Exported. Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		to	M/d																														
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		to	M/d																														
		to	M/d																														
		to	M/d																														
13a _{BL}	Input as appropriate	Baseline Potable Water Imported. Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		from	M/d																														
		from	M/d																														
		from	M/d																														
		from	M/d																														
		from	M/d																														

Company: Thames Water

Resource Zone Name: Kennet Valley

Resource Zone Number: 3 of 6

Planning Scenario Name: Dry Year Annual Average

Chosen Level of Service: Company Preferred Level of Service

Table WRP2: Feasible list of water management options

ROW Ref.	DERIVATION	OPTION DESCRIPTION <i>(insert / delete non-numbered lines to suit)</i>	WATER MANAGEMENT OPTION COST AND SOLUTION - TO BE COMPLETED FOR ALL FEASIBLE OPTIONS										
			OPTION REFERENCE No.	WAFU ON FULL IMPLEMENTATION (M/d)	EARLIEST POTENTIAL OPTION START DATE (YEAR)	NPV of WAFU (M)	CAPEX NPV (£000)	OPEX NPV (£000)	NPV of OPEX SAVINGS (£000)	SOCIAL & ENV. NPV (£000)	TOTAL NPV (£000)	AIC (p/M ³)	AISC (p/M ³)
54	Input as appropriate	Customer Side Management, Specify Below....											
		Change of Occupier (Compulsory Current Powers)		6.44	2010/11	28933.66	19127.96	4223.96	-961.28	610.06	23961.98	77.39	79.49
		Targetted compulsory metering (New Powers)		6.44	2010/11	28933.66	13216.39	3519.97	-961.28	610.06	17346.42	54.52	56.63
		Enhanced water efficiency		10.71	2010/11	38511.57	0.00	57562.69	-1177.98	294.26	57856.95	146.41	147.17
		Optant Metering (Included in Baseline)		0.26	2010/11	1605.67	8486.90	972.31	-1.38	610.06	10069.28	589.03	627.02
55	Input as appropriate	Distribution Side Management, Specify Below....											
56	Input as appropriate	Production Side Management, Specify Below....											
57	Input as appropriate	Resource Management, Specify Below....											
		Marlow Groundwater Resource Development	PR09 KV 01	10	2013	78713.51	22348.66	5637.18	0.00	1043.81	29029.65	35.55	36.88
		Woodley North Licence Disaggregation	PR09 KV 02	0	2013	0.00	13433.53	552.07	0.00	809.34	14794.94	#DIV/0!	#DIV/0!
		Hungerford (licence increase)	PR09 KV 03	1.35	2012	10626.32	2960.72	1209.82	0.00	150.81	4321.34	39.25	40.67
		Reading West Groundwater Resource Development	PR09 KV 05	10	2013	78713.51	36598.97	10403.84	0.00	939.69	47942.50	59.71	60.91
		Arborfield disused source (recommission)	PR09 KV 06	2	2012	15742.70	5065.31	1880.50	0.00	194.52	7140.33	44.12	45.36
		Newbury North East Disused Source Recommissioning	PR09 KV 07	1.74	2012	13696.15	4889.91	1421.54	0.00	144.33	6455.78	46.08	47.14
		Henley South East Groundwater Resource Development	PR09 KV 08	10	2012	78713.51	41648.08	9503.13	0.00	814.74	51965.95	64.98	66.02
		Caversham East Licence Increase	PR09 KV 09	2.2	2012	17316.97	6103.31	3085.34	0.00	147.93	9336.57	53.06	53.92
		Mortimer (transfer peak licence from Arborfield)	PR09 KV 10	0	2012	0.00	8155.37	75.48	0.00	50.72	8281.57	#DIV/0!	#DIV/0!
		Shalbourne (option B)	PR09 KV04	3.3	2012	25975.46	10525.67	2715.99	0.00	218.00	13459.66	50.98	51.82

Company: Thames Water

Resource Zone Name: Kennet Valley

Resource Zone Number: 3 of 6

Planning Scenario Name: Dry Year Annual Average

Chosen Level of Service: Company Preferred Level of Service

Table WRP4a-FP: Final planning WRP4a supporting transfer and DO reduction data

ROW Ref.	DERIVATION	DESCRIPTION <i>[Insert / delete non-numbered lines to suit]</i>	UNITS	Scenario	Year																												
				2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	
2a _{FP}	Input as appropriate	Reductions in Final Planning Deployable Output. Total here and specify below	M/d	0.00	0.00	0.03	0.07	0.10	0.13	0.16	4.20	4.23	4.26	4.29	4.33	4.36	4.39	4.41	4.42	4.43	4.44	4.45	4.46	4.47	4.48	4.49	4.50	4.50	4.51	4.52	4.53	4.54	
		<i>Climate change</i>	M/d	0.00	0.00	0.03	0.07	0.10	0.13	0.16	4.20	4.23	4.26	4.29	4.33	4.36	4.39	4.41	4.42	4.43	4.44	4.45	4.46	4.47	4.48	4.49	4.50	4.50	4.51	4.52	4.53	4.54	
		<i>Sustainability Reduction</i>	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	
		<i>Network Constraints</i>	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			M/d																														
			M/d																														
7a _{FP}	Input as appropriate	Final Planning Raw Water Exported. Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		to	M/d																														
		to	M/d																														
8a _{FP}	Input as appropriate	Final Planning Raw Water Imported. Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		from	M/d																														
		from	M/d																														
		from	M/d																														
10a _{FP}	Input as appropriate	Final Planning Non Potable Supplies. Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		to	M/d																														
		to	M/d																														
		to	M/d																														
12a _{FP}	Input as appropriate	Final Planning Potable Water Exported. Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		to	M/d																														
		to	M/d																														
		to	M/d																														
		to	M/d																														
		to	M/d																														
13a _{FP}	Input as appropriate	Final Planning Potable Water Imported. Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		from	M/d																														
		from	M/d																														
		from	M/d																														
		from	M/d																														
		from	M/d																														

Company: Thames Water

Resource Zone Name: Kennet Valley

Resource Zone Number: 3 of 6

Planning Scenario Name: Dry Year Annual Average

Chosen Level of Service: Company Preferred Level of Service

Table WRP5: Baseline resource zone deployable output reconciliation

Row Ref	Derivation	Licence number	Source name	Source type (GW/SW/Res/Conj. use)	Dry year deployable output (Ml/d)	Critical period deployable output (Ml/d)	Annual licenced quantity (Ml/d)	Constraint	Length of record assessed (Years)	Critical event (Year)
5.1	Input	28/39/21/0009	Bradfield Valley & Bradfield Windmill	GW	2.3		2.28	L	1904-2007	
5.2	Input	28/39/22/0033	Bishops Green *	GW	11		17.15	T	1962-2006	
5.3	Input	28/39/22/0564	East Woodhay (Source) *	GW	6.15		**	L	1993-2008	
5.4	Input	28/39/22/0047	Speen	GW	11.4		11.40	L	1990-2006	
5.5	Input	28/39/22/0415	Ufton Nernet *	GW	13.6		13.64	L	1975-2007	
5.6	Input	28/39/22/0172	Ufton Nernet (Disused) *	GW	0		0.00	Disused		
5.7	Input	28/39/22/0043	Cold Ash (Disused)	GW	0		1.74	Disused	1929	
5.8	Input	28/39/22/0032	Mortimer	GW	4.55		4.55	L	1950-1999	
5.9	Input	28/39/21/0007	Pangbourne *	GW	31		38.75	B	1941-2006	2006 RWL & PW
5.10	Input	28/39/21/0089	Pangbourne FC *	GW	0		**			
5.11	Input	28/39/21/0072	Theale FC (Disused) *	GW	0		**	Disused	1970-1982	
5.12	Input	28/39/23/0134	Playhatch	GW	7.3		7.27	L	1975-2006	
5.13	Input	28/39/24/0014	Arborfield (Disused)	GW	0		2.24	Disused		
5.14	Input	28/39/22/0435	Fobney	SW	55		72.74		1961-2007	1976
5.15	Input	28/39/22/0044	Hungerford *	GW	1.75		1.75	L	1975-2006	
5.16	Input	28/39/22/0588	Shalbourne (Emergency) * (Aggregated with Hungerford)	GW	0		NA		1973-1996	
5.17	Input	28/39/22/0041	Fognam Down *	GW	2.7		2.73	L	1967-2006	
5.18	Input	28/39/22/0375	Fognam Down * (Aggregated with Fognam Down above)	GW	0		**			
5.19	Input									
5.20	Input		* Licenced volume or DO aggregated with another source							
5.21	Input		** Aggregated with the source value above it							
5.22	Input									
5.23	Input		L = Licence							
5.24	Input		Q = Quality							
5.25	Input		P = Pump Size or Depth							
5.26	Input		GWL = Low Groundwater Levels							
5.27	Input		B = Borehole depth or restriction							
5.28	Input		T = Treatment							
5.29	Input		RWL = Rest Water Level							
5.30	Input		PWL = Pumping Water Level							
5.31	Sum (5.1:6.40) Total reconciled DO				146.75	0.00	176.23			

Company:	<u>Thames Water</u>
Resource Zone Name	<u>Kennet Valley</u>
Resource Zone Number:	<u>3 of 6</u>
Planning Scenario Name:	<u>Dry Year Annual Average</u>
Chosen Level of Service:	<u>Company Preferred Level of Service</u>

Table WRP6: Baseline breakdown of measured households

Row Ref	Derivation	Description	Units	Scenario Year	Scenario																												
					2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
6.1 _{BL}	6.5 _{BL} +6.9 _{BL} +6.13 _{BL} +6.17 _{BL} +6.21 _{BL} +6.25 _{BL}	Total	Population	000's	94.15	107.58	112.05	116.21	119.95	123.87	128.02	132.50	137.21	141.95	147.30	152.61	157.91	163.23	168.64	173.74	178.12	182.51	186.94	191.23	195.38	199.24	203.06	206.98	210.95	214.75	218.41	222.26	226.27
6.2 _{BL}	6.9 _{BL} +6.10 _{BL} +6.14 _{BL} +6.18 _{BL} +6.22 _{BL} +6.26 _{BL}	Total	Properties	000's	44.63	48.54	50.80	53.11	55.18	57.23	59.52	61.95	64.44	66.99	69.67	72.37	75.09	77.83	80.55	83.18	85.65	88.08	90.52	92.94	95.31	97.56	99.69	101.79	103.87	105.88	107.89	109.98	112.08
6.3 _{BL}	6.1 _{BL} /6.2 _{BL}	Total	Occupancy	h/prop	2.11	2.22	2.21	2.19	2.17	2.16	2.15	2.14	2.13	2.12	2.11	2.11	2.10	2.10	2.09	2.09	2.08	2.07	2.07	2.06	2.05	2.04	2.04	2.03	2.03	2.03	2.02	2.02	2.02
6.5 _{BL}	Input	Meter optants	Population	000's		1.43	3.07	4.56	5.92	7.25	8.57	9.89	11.20	12.53	13.85	15.17	16.48	17.80	19.11	20.37	21.65	22.92	24.18	25.43	26.62	27.84	29.08	31.53	33.08	34.60	36.40	37.70	
6.6 _{BL}	Input	Meter optants	Properties	000's		0.94	2.03	3.02	3.92	4.82	5.72	6.62	7.52	8.42	9.32	10.22	11.12	12.02	12.92	13.82	14.72	15.62	16.52	17.42	18.32	19.22	20.12	21.02	21.92	22.82	23.72	24.62	
6.7 _{BL}	6.5 _{BL} /6.6 _{BL}	Meter optants	Occupancy	h/prop	#DIV/0!	1.52	1.51	1.51	1.51	1.50	1.50	1.49	1.49	1.49	1.48	1.48	1.48	1.48	1.47	1.47	1.47	1.46	1.46	1.46	1.47	1.48	1.49	1.50	1.51	1.52	1.53	1.53	
6.8 _{BL}	Input	Meter optants	pcc	1/h/d		142.64	142.51	142.18	141.82	141.71	141.73	141.73	141.98	142.10	142.51	143.02	143.59	144.30	145.07	146.10	147.08	148.08	149.12	149.47	149.41	149.39	149.32	149.91	149.72	149.52	148.96	149.18	
6.9 _{BL}	Input	New properties	Population	000's		3.12	5.97	8.48	11.17	14.38	17.89	21.54	25.29	29.39	33.51	37.65	41.82	45.99	49.90	53.33	56.70	60.09	63.39	66.55	69.34	71.91	74.48	77.04	79.42	81.76	84.13	86.83	
6.10 _{BL}	Input	New properties	Properties	000's		1.32	2.54	3.62	4.77	6.16	7.69	9.28	10.93	12.71	14.51	16.33	18.16	19.99	21.72	23.29	24.82	26.36	27.88	29.35	30.70	31.92	33.12	34.31	35.42	36.53	37.71	38.91	
6.11 _{BL}	6.9 _{BL} /6.10 _{BL}	New properties	Occupancy	h/prop	#DIV/0!	2.36	2.35	2.35	2.34	2.33	2.33	2.32	2.31	2.31	2.31	2.31	2.30	2.30	2.30	2.29	2.28	2.28	2.27	2.27	2.26	2.25	2.25	2.25	2.24	2.24	2.23	2.23	
6.12 _{BL}	Input	New properties	pcc	1/h/d		144.96	144.91	143.90	142.67	141.18	139.80	138.36	137.13	136.09	135.60	135.35	135.29	135.45	135.75	136.37	136.98	136.92	136.92	137.00	137.21	137.45	137.60	137.63	137.59	137.50	137.42		
6.13 _{BL}	Input	Metering on change of occupancy	Population	000's		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.14 _{BL}	Input	Metering on change of occupancy	Properties	000's		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.15 _{BL}	6.13 _{BL} /6.14 _{BL}	Metering on change of occupancy	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6.16 _{BL}	Input	Metering on change of occupancy	pcc	1/h/d		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.17 _{BL}	Input	Selective metering	Population	000's																													
6.18 _{BL}	Input	Selective metering	Properties	000's																													
6.19 _{BL}	6.17 _{BL} /6.18 _{BL}	Selective metering	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6.20 _{BL}	Input	Selective metering	pcc	1/h/d																													
6.21 _{BL}	Input	Compulsory metering	Population	000's																													
6.22 _{BL}	Input	Compulsory metering	Properties	000's																													
6.23 _{BL}	6.21 _{BL} /6.22 _{BL}	Compulsory metering	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6.24 _{BL}	Input	Compulsory metering	pcc	1/h/d																													
6.25 _{BL}	Input	Existing Metering	Population	000's	94.15	107.58	107.51	107.17	106.91	106.78	106.39	106.04	105.77	105.45	105.37	105.25	105.09	104.94	104.85	104.74	104.41	104.16	103.93	103.66	103.40	102.98	102.71	102.52	102.39	102.26	102.05	101.73	101.75
6.26 _{BL}	Input	Existing Metering	Properties	000's	44.63	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54
6.27 _{BL}	6.25 _{BL} /6.26 _{BL}	Existing Metering	Occupancy	h/prop	2.11	2.22	2.21	2.21	2.20	2.20	2.19	2.18	2.18	2.17	2.17	2.17	2.16	2.16	2.16	2.15	2.15	2.14	2.14	2.13	2.12	2.12	2.11	2.11	2.11	2.10	2.10	2.10	
6.28 _{BL}	Input	Existing Metering	pcc	1/h/d		139.58	139.96	139.94	139.88	139.81	139.87	139.90	139.78	139.59	139.15	138.71	138.11	137.30	136.25	135.05	133.80	132.16	130.60	128.79	126.91	124.95	122.77	120.37	117.51	114.83	112.05	109.05	105.84

Company:	Thames Water
Resource Zone Name	Kennet Valley
Resource Zone Number:	3 of 6
Planning Scenario Name:	Dry Year Annual Average
Chosen Level of Service:	Company Preferred Level of Service

Table WRP6a: Final planning breakdown of measured households

Row Ref	Derivation	Description	Units	Scenario Year	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
					2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
6.1 _{pp}	6.5 _{pp} +6.9 _{pp} +6.13 _{pp} +6.17 _{pp} +6.21 _{pp} +6.25 _{pp}	Total	Population	000's	94.15	107.58	112.05	116.21	120.63	125.89	131.36	137.08	142.97	148.81	155.21	161.54	167.79	174.01	193.76	227.07	260.89	296.22	333.64	354.29	356.71	358.79	360.79	362.82	364.99	367.00	368.77	370.70	372.64
6.2 _{pp}	6.6 _{pp} +6.10 _{pp} +6.14 _{pp} +6.18 _{pp} +6.22 _{pp} +6.26 _{pp}	Total	Properties	000's	44.63	48.54	50.80	53.11	55.48	58.15	61.03	64.02	67.03	70.04	73.15	76.25	79.34	82.40	90.89	104.74	118.40	131.98	145.53	153.05	154.52	155.87	157.10	158.30	159.48	160.59	161.70	162.88	164.09
6.3 _{pp}	6.1 _{pp} /6.2 _{pp}	Total	Occupancy	h/prop	2.11	2.22	2.21	2.19	2.17	2.17	2.15	2.14	2.13	2.12	2.12	2.11	2.11	2.13	2.17	2.20	2.24	2.29	2.31	2.31	2.30	2.30	2.29	2.29	2.29	2.28	2.28	2.27	
6.5 _{pp}	Input	Meter optants	Population	000's			1.43	3.07	4.71	6.34	7.92	9.44	10.90	12.27	13.60	14.89	16.12	17.29	18.44	19.55	20.81	22.34	23.95	24.79	24.72	24.65	24.60	24.56	24.53	24.49	24.45	24.40	24.35
6.6 _{pp}	Input	Meter optants	Properties	000's			0.94	2.03	3.12	4.21	5.27	6.31	7.30	8.24	9.14	10.02	10.86	11.67	12.45	13.23	13.98	14.70	15.37	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70
6.7 _{pp}	6.5 _{pp} /6.6 _{pp}	Meter optants	Occupancy	h/prop	#DIV/0!	#DIV/0!	1.52	1.51	1.51	1.51	1.50	1.50	1.49	1.49	1.49	1.48	1.48	1.48	1.48	1.49	1.52	1.56	1.58	1.57	1.57	1.57	1.56	1.56	1.56	1.56	1.55	1.55	
6.8 _{pp}	Input	Meter optants	pcc	l/h/d			142.64	142.51	142.04	141.81	141.65	141.67	141.66	141.88	141.96	135.19	135.56	135.98	136.46	136.91	137.03	136.70	135.74	135.81	136.14	136.58	137.00	137.33	138.26	138.42	138.56	138.68	138.81
6.9 _{pp}	Input	New properties	Population	000's			3.12	5.97	8.48	11.17	14.38	17.90	21.54	25.29	29.39	33.51	37.66	41.82	45.99	49.88	53.21	56.62	59.86	63.15	66.31	69.18	71.79	74.35	76.90	79.28	81.62	84.10	86.60
6.10 _{pp}	Input	New properties	Properties	000's			1.32	2.54	3.62	4.77	6.16	7.69	9.28	10.93	12.71	14.51	16.33	18.16	19.99	21.72	23.29	24.82	26.36	27.88	29.35	30.70	31.92	33.12	34.31	35.42	36.53	37.71	38.91
6.11 _{pp}	6.9 _{pp} /6.10 _{pp}	New properties	Occupancy	h/prop	#DIV/0!	#DIV/0!	2.36	2.35	2.35	2.34	2.33	2.33	2.32	2.31	2.31	2.31	2.31	2.30	2.30	2.30	2.28	2.28	2.27	2.27	2.26	2.25	2.24	2.24	2.24	2.23	2.23	2.23	
6.12 _{pp}	Input	New properties	pcc	l/h/d			144.96	144.91	143.80	142.61	141.18	139.82	138.40	137.17	136.13	128.81	128.51	128.37	128.35	128.40	128.73	129.04	128.69	129.23	129.28	129.45	129.63	129.72	129.71	129.65	129.56	129.99	130.42
6.13 _{pp}	Input	Metering on change off occupancy	Population	000's			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.14 _{pp}	Input	Metering on change off occupancy	Properties	000's			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.15 _{pp}	6.13 _{pp} /6.14 _{pp}	Metering on change off occupancy	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6.16 _{pp}	Input	Metering on change off occupancy	pcc	l/h/d			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.17 _{pp}	Input	Selective metering	Population	000's																													
6.18 _{pp}	Input	Selective metering	Properties	000's																													
6.19 _{pp}	6.17 _{pp} /6.18 _{pp}	Selective metering	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6.20 _{pp}	Input	Selective metering	pcc	l/h/d																													
6.21 _{pp}	Input	Compulsory metering	Population	000's				0.53	1.60	2.66	3.70	4.75	5.79	6.84	7.88	8.92	9.95	24.46	52.94	82.70	113.26	146.30	163.07	162.65	162.21	161.87	161.57	161.36	161.15	160.83	160.52	160.20	
6.22 _{pp}	Input	Compulsory metering	Properties	000's				0.21	0.64	1.06	1.48	1.91	2.33	2.76	3.18	3.60	4.03	9.91	21.25	32.59	43.93	55.26	60.93	60.93	60.93	60.93	60.93	60.93	60.93	60.93	60.93	60.93	
6.23 _{pp}	6.21 _{pp} /6.22 _{pp}	Compulsory metering	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	2.52	2.51	2.50	2.50	2.49	2.48	2.48	2.47	2.47	2.47	2.47	2.49	2.54	2.58	2.65	2.68	2.67	2.66	2.66	2.65	2.64	2.64	2.63	2.63		
6.24 _{pp}	Input	Compulsory metering	pcc	l/h/d				144.28	143.82	143.47	143.16	142.87	142.66	142.46	135.35	135.44	135.58	135.49	135.36	135.69	134.94	135.42	134.67	132.73	132.47	132.22	131.98	131.72	131.47	131.23	130.46	129.71	
6.25 _{pp}	Input	Existing Metering	Population	000's	94.15	107.58	107.51	107.17	106.91	106.79	106.40	106.04	105.78	105.46	105.38	105.25	105.10	104.95	104.87	104.69	104.17	104.01	103.54	103.28	103.02	102.74	102.53	102.34	102.21	102.08	101.88	101.69	101.48
6.26 _{pp}	Input	Existing Metering	Properties	000's	44.63	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	48.54	
6.27 _{pp}	6.25 _{pp} /6.26 _{pp}	Existing Metering	Occupancy	h/prop	2.11	2.22	2.21	2.21	2.20	2.20	2.19	2.18	2.18	2.17	2.17	2.17	2.17	2.16	2.16	2.15	2.14	2.13	2.12	2.12	2.11	2.11	2.11	2.11	2.10	2.10	2.09	2.09	
6.28 _{pp}	Input	Existing Metering	pcc	l/h/d	139.58	139.96	139.94	139.76	139.77	139.97	140.09	140.06	139.95	139.56	132.18	131.59	130.76	130.07	129.65	128.90	128.58	126.23	125.91	128.91	128.86	128.49	127.87	126.72	125.71	124.78	124.12	123.28	

Company:	Thames Water
Resource Zone Name:	Kennet Valley
Resource Zone Number:	3 of 6
Planning Scenario Name:	Dry Year Annual Average
Chosen Level of Service:	Company Preferred Level of Service

Table WRP7: Baseline household micro-component consumption

Row Ref	Derivation	Description <i>Insert additional components as required</i>	Units	Scenario Year 2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35		
7.1	Input	Unmeasured toilet flushing	l/h/d	40.68	38.29	37.49	36.75	36.06	35.42	34.82	34.26	33.73	33.25	32.79	32.36	31.96	31.59	31.24	30.92	30.62	30.34	30.07	29.83	29.60	29.38	29.18	29.00	28.82	28.66	28.51	28.37	28.24		
7.2	Input	Unmeasured bath use	l/h/d	20.96	18.24	17.57	16.93	16.28	15.63	14.98	14.33	13.67	13.01	12.35	12.20	12.05	11.90	11.75	11.59	11.44	11.29	11.13	10.98	10.83	10.81	10.80	10.78	10.76	10.74	10.72	10.70	10.69		
7.3	Input	Unmeasured shower use	l/h/d	26.60	25.28	26.20	27.27	28.35	29.42	30.51	31.60	32.69	33.80	34.90	35.65	36.41	37.16	37.92	38.69	39.46	40.24	41.02	41.80	42.59	43.28	43.98	44.68	45.37	46.07	46.78	47.49	48.21		
7.4	Input	Unmeasured hand basin	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7.5	Input	Unmeasured clothes washing	l/h/d	15.12	12.75	12.39	12.08	11.80	11.55	11.34	11.14	10.97	10.81	10.67	10.55	10.44	10.35	10.26	10.19	10.12	10.06	10.01	9.97	9.93	9.90	9.88	9.87	9.85	9.84	9.83	9.82	9.82		
7.6	Input	Unmeasured dish washing	l/h/d	10.02	7.98	7.96	7.91	7.86	7.80	7.77	7.74	7.70	7.67	7.64	7.61	7.59	7.55	7.53	7.50	7.49	7.47	7.46	7.45	7.44	7.43	7.43	7.44	7.43	7.42	7.41	7.41	7.41		
7.7	Input	Unmeasured garden use	l/h/d	21.51	18.87	18.99	19.21	19.40	19.57	19.77	19.96	20.12	20.29	20.40	20.53	20.64	20.74	20.83	20.93	21.05	21.14	21.23	21.32	21.41	21.50	21.60	21.69	21.74	21.79	21.85	21.90	21.96		
7.8	Input	Unmeasured car washing	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7.9	Input	Unmeasured miscellaneous use	l/h/d	34.27	32.09	32.09	32.13	32.17	32.20	32.23	32.26	32.29	32.32	32.34	32.36	32.38	32.40	32.42	32.44	32.46	32.48	32.49	32.51	32.53	32.55	32.57	32.60	32.61	32.63	32.65	32.67	32.69		
7.10	Input	Unmeasured wastage	l/h/d	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00		
7.11	Input	Unmeasured water efficiency	l/h/d	-0.39	-0.12	-0.25	-0.38	-0.51	-0.64	-0.77	-0.90	-1.02	-1.13	-1.23	-1.31	-1.36	-1.41	-1.44	-1.46	-1.48	-1.49	-1.50	-1.51	-1.53	-1.54	-1.56	-1.58	-1.59	-1.60	-1.62	-1.63	-1.65		
7.12	Input		l/h/d																															
7.13	Input		l/h/d																															
7.14	Input		l/h/d																															
7.15	Input		l/h/d																															
7.16	Input		l/h/d																															
7.17	Input		l/h/d																															
7.18	Input		l/h/d																															
7.19	Sum(7.1-7.18)	Unmeasured pcc	l/h/d	177.78	162.39	161.46	160.91	160.41	159.97	159.64	159.39	159.16	159.01	158.87	158.96	159.10	159.28	159.51	159.79	160.16	160.53	160.93	161.35	161.80	162.32	162.89	163.47	164.00	164.55	165.13	165.72	166.37		
7.20	Input	Measured toilet flushing	l/h/d	34.72	37.14	36.31	35.66	35.05	34.48	33.94	33.44	32.97	32.54	32.13	31.75	31.40	31.07	30.76	30.47	30.20	29.95	29.71	29.49	29.29	29.10	28.92	28.75	28.60	28.45	28.31	28.19	28.07		
7.21	Input	Measured bath use	l/h/d	17.76	15.72	15.22	14.64	14.04	13.42	12.79	12.12	11.41	10.67	9.89	9.61	9.30	8.97	8.63	8.27	7.91	7.53	7.13	6.71	6.27	5.96	5.64	5.31	4.97	4.63	4.29	3.94	3.59		
7.22	Input	Measured shower use	l/h/d	25.37	25.75	26.83	27.96	29.07	30.17	31.26	32.33	33.37	34.38	35.36	35.92	36.46	36.99	37.50	38.00	38.51	39.00	39.47	39.93	40.37	40.71	41.05	41.37	41.69	42.02	42.35	42.68	43.00		
7.23	Input	Measured hand basin	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7.24	Input	Measured clothes washing	l/h/d	11.21	10.36	9.98	9.67	9.39	9.13	8.89	8.64	8.39	8.13	7.84	7.55	7.27	6.98	6.68	6.38	6.10	5.80	5.49	5.17	4.84	4.51	4.17	3.83	3.49	3.15	2.82	2.48	2.14		
7.25	Input	Measured dish washing	l/h/d	7.07	6.63	6.71	6.75	6.77	6.77	6.78	6.77	6.73	6.65	6.53	6.40	6.25	6.09	5.91	5.73	5.56	5.35	5.13	4.90	4.65	4.39	4.12	3.85	3.55	3.26	2.97	2.67	2.37		
7.26	Input	Measured garden use	l/h/d	14.70	13.05	14.22	14.88	15.42	15.90	16.40	16.86	17.25	17.61	17.94	18.25	18.53	18.77	18.98	19.18	19.40	19.56	19.69	19.80	19.88	19.94	19.99	20.02	20.00	19.98	19.95	19.89	19.83		
7.27	Input	Measured car washing	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7.28	Input	Measured miscellaneous use	l/h/d	29.15	28.62	28.87	28.99	29.08	29.14	29.20	29.22	29.20	29.14	29.05	28.94	28.81	28.66	28.49	28.31	28.13	27.92	27.69	27.45	27.19	26.92	26.63	26.34	26.03	25.73	25.43	25.12	24.81		
7.29	Input	Measured wastage	l/h/d	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60		
7.30	Input	Measured water efficiency	l/h/d	-0.89	-0.28	-0.59	-0.89	-1.19	-1.48	-1.77	-2.06	-2.35	-2.60	-2.80	-2.98	-3.11	-3.21	-3.28	-3.33	-3.35	-3.38	-3.40	-3.44	-3.47	-3.50	-3.54	-3.57	-3.60	-3.63	-3.66	-3.69	-3.71		
7.31	Input		l/h/d																															
7.32	Input		l/h/d																															
7.33	Input		l/h/d																															
7.34	Input		l/h/d																															
7.35	Input		l/h/d																															
7.36	Input		l/h/d																															
7.37	Input		l/h/d																															
7.38	Sum(7.20-7.37)	Measured pcc	l/h/d	141.68	139.58	140.13	140.25	140.23	140.13	140.08	139.91	139.57	139.13	138.53	138.04	137.51	136.92	136.26	135.62	135.06	134.34	133.50	132.60	131.62	130.63	129.59	128.49	127.33	126.19	125.07	123.89	122.68		

Company: Thames Water
Resource Zone Name: Kennet Valley
Resource Zone Number: 3 of 6
Planning Scenario Name: Dry Year Annual Average
Chosen Level of Service: Company Preferred Level of Service

Table WRP7a: Final planning household micro-component consumption

Row Ref	Derivation	Description <i>Insert additional components as required</i>	Units	Scenario Year 2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	
7.1	Input	Unmeasured toilet flushing	l/h/d	40.68	38.06	37.30	36.60	35.95	35.36	34.80	34.28	33.80	33.35	32.93	32.55	32.19	31.86	31.52	31.20	30.97	30.81	30.88	30.64	30.01	29.81	29.63	29.46	29.31	29.16	29.03	28.90	28.79	
7.2	Input	Unmeasured bath use	l/h/d	20.96	18.33	17.66	17.01	16.36	15.71	15.05	14.39	13.74	13.08	12.41	12.26	12.11	11.96	11.78	11.60	11.49	11.42	11.56	11.39	10.84	10.82	10.80	10.77	10.75	10.73	10.71	10.68	10.66	
7.3	Input	Unmeasured shower use	l/h/d	26.60	25.36	26.28	27.35	28.41	29.49	30.57	31.65	32.75	33.85	34.95	35.70	36.45	37.21	37.94	38.68	39.48	40.34	41.41	42.18	42.59	43.27	43.96	44.65	45.35	46.04	46.75	47.45	48.16	
7.4	Input	Unmeasured hand basin	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7.5	Input	Unmeasured clothes washing	l/h/d	15.12	12.87	12.51	12.20	11.91	11.66	11.44	11.24	11.06	10.90	10.76	10.64	10.52	10.42	10.32	10.23	10.21	10.20	10.26	10.53	10.47	9.99	9.95	9.92	9.90	9.88	9.86	9.85	9.84	9.83
7.6	Input	Unmeasured dish washing	l/h/d	10.02	8.10	8.08	8.03	7.96	7.88	7.82	7.76	7.69	7.63	7.57	7.52	7.48	7.45	7.37	7.27	7.22	7.23	7.46	7.46	7.03	7.04	7.06	7.08	7.09	7.11	7.13	7.14	7.16	
7.7	Input	Unmeasured garden use	l/h/d	21.51	18.64	18.72	18.93	19.08	19.17	19.28	19.38	19.44	19.51	19.54	19.59	19.65	19.71	19.58	19.33	19.18	18.99	18.94	19.24	19.52	19.67	19.67	19.83	19.98	20.11	20.23	20.36	20.48	20.60
7.8	Input	Unmeasured car washing	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7.9	Input	Unmeasured miscellaneous use	l/h/d	34.27	32.15	32.14	32.17	32.20	32.23	32.26	32.28	32.30	32.32	32.34	32.36	32.37	32.39	32.37	32.35	32.40	32.49	32.78	32.81	32.49	32.51	32.52	32.54	32.55	32.57	32.58	32.59	32.61	
7.10	Input	Measured wastage	l/h/d	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	
7.11	Input	Measured water efficiency	l/h/d	-0.39	-0.12	-0.25	-0.38	-0.57	-0.70	-0.80	-0.92	-1.04	-1.14	-1.23	-1.31	-1.37	-1.42	-1.42	-1.35	-1.25	-1.12	-0.97	-0.85	-0.87	-0.88	-0.89	-0.91	-0.92	-0.93	-0.94	-0.96	-0.97	
7.12	Input		l/h/d																														
7.13	Input		l/h/d																														
7.14	Input		l/h/d																														
7.15	Input		l/h/d																														
7.16	Input		l/h/d																														
7.17	Input		l/h/d																														
7.18	Input		l/h/d																														
7.19	Sum(7.1-7.18)	Unmeasured pcc	l/h/d	177.78	162.39	161.46	160.91	160.31	159.80	159.41	159.07	158.74	158.51	158.28	158.31	158.41	158.57	158.47	158.32	158.70	159.42	161.60	162.33	160.60	161.20	161.83	162.48	163.12	163.77	164.45	165.14	165.84	
7.20	Input	Measured toilet flushing	l/h/d	34.72	33.92	33.21	32.65	32.11	31.61	31.13	30.66	30.18	29.71	29.24	27.86	27.41	26.97	26.63	26.39	26.15	25.89	25.60	25.31	25.00	24.70	24.40	24.10	23.80	23.51	23.23	22.96	22.68	
7.21	Input	Measured bath use	l/h/d	17.76	16.14	15.61	15.02	14.41	13.79	13.16	12.50	11.80	11.08	10.32	9.14	8.87	8.59	8.39	8.25	8.10	7.91	7.68	7.42	7.15	7.00	6.84	6.67	6.50	6.31	6.14	5.95	5.75	
7.22	Input	Measured shower use	l/h/d	25.37	26.19	27.24	28.36	29.46	30.56	31.66	32.73	33.78	34.81	35.81	35.47	36.05	36.62	37.27	37.99	38.70	39.38	40.02	40.64	41.24	41.75	42.25	42.74	43.22	43.70	44.19	44.67	45.16	
7.23	Input	Measured hand basin	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7.24	Input	Measured clothes washing	l/h/d	11.21	10.72	10.30	9.98	9.68	9.40	9.15	8.90	8.66	8.41	8.15	6.99	6.74	6.49	6.34	6.28	6.20	6.10	5.97	5.82	5.66	5.50	5.33	5.16	4.98	4.80	4.63	4.45	4.28	
7.25	Input	Measured dish washing	l/h/d	7.07	6.99	7.03	7.06	7.05	7.01	6.99	6.95	6.88	6.78	6.64	5.58	5.41	5.22	5.12	5.10	5.06	4.96	4.82	4.69	4.58	4.47	4.36	4.23	4.09	3.95	3.81	3.67	3.52	
7.26	Input	Measured garden use	l/h/d	14.70	14.18	15.39	16.03	16.59	17.09	17.60	18.07	18.45	18.79	19.08	18.19	18.38	18.52	18.65	18.76	18.86	18.88	18.81	18.83	18.96	19.07	19.18	19.27	19.32	19.37	19.41	19.44	19.47	
7.27	Input	Measured car washing	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7.28	Input	Measured miscellaneous use	l/h/d	29.15	29.13	29.35	29.45	29.54	29.60	29.66	29.68	29.68	29.64	29.57	28.54	28.44	28.33	28.30	28.33	28.35	28.32	28.26	28.18	28.07	27.96	27.84	27.71	27.57	27.42	27.28	27.13	26.97	
7.29	Input	Measured wastage	l/h/d	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	
7.30	Input	Measured water efficiency	l/h/d	-0.89	-0.28	-0.59	-0.89	-1.31	-1.53	-1.72	-1.94	-2.14	-2.30	-2.42	-2.50	-2.55	-2.58	-2.61	-2.64	-2.66	-2.67	-2.68	-2.62	-2.66	-2.70	-2.74	-2.78	-2.82	-2.86	-2.90	-2.94	-2.98	
7.31	Input		l/h/d																														
7.32	Input		l/h/d																														
7.33	Input		l/h/d																														
7.34	Input		l/h/d																														
7.35	Input		l/h/d																														
7.36	Input		l/h/d																														
7.37	Input		l/h/d																														
7.38	Sum(7.20-7.37)	Measured pcc	l/h/d	141.68	139.58	140.13	140.25	140.13	140.14	140.22	140.16	139.90	139.53	138.99	131.85	131.35	130.77	130.69	131.06	131.36	131.37	131.08	130.85	130.59	130.35	130.05	129.70	129.25	128.81	128.40	127.93	127.45	

Company: Thames Water
Resource Zone Name: Kennet Valley
Resource Zone Number: 3 of 6
Planning Scenario Name: Dry Year Annual Average
Chosen Level of Service: Company Preferred Level of Service

Table WRP8: Baseline non-household sector consumption

Row Ref	Derivation	Description	2007 SIC codes	Units	Scenario Year 2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34		
8.1	Input	Agriculture, horticulture, forestry and fishing	A1, A2, A3	M/d	1.97	1.59	1.60	1.46	1.40	1.32	1.24	1.16	1.09	1.03	0.98	0.96	0.94	0.93	0.91	0.89	0.88	0.86	0.85	0.84	0.82	0.80	0.78	0.76	0.74	0.72	0.70	0.68		
8.2	Input	Extraction of metals, minerals and energy producing materials	B5, B6, B7, B8, B9	M/d	0.18	0.15	0.12	0.11	0.09	0.07	0.04	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		
8.3	Input	Food and drink (manufacture)	C10, C11, C12	M/d	1.36	1.33	1.16	1.06	0.98	0.92	0.87	0.82	0.77	0.73	0.70	0.67	0.65	0.64	0.62	0.61	0.60	0.59	0.59	0.58	0.58	0.57	0.55	0.54	0.52	0.51	0.49	0.48		
8.4	Input	Textile, fur and leather (manufacture)	C13, C14, C15	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
8.5	Input	Other manufacturing	C16, C26, C27, C31, C32, C33	M/d	0.34	0.30	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	
8.6	Input	Paper (manufacture)	C17, C18	M/d	0.11	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
8.7	Input	Fuel refining	C19	M/d	0.12	0.04	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01		
8.8	Input	Chemicals, rubbers, plastics and man-made material (manufacture)	C20, C21, C22	M/d	0.21	0.21	0.19	0.17	0.17	0.16	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	
8.9	Input	Manufacture of non-metallic minerals	C23	M/d	0.19	0.12	0.07	0.08	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	
8.10	Input	Manufacture of basic metals, fabricated metal products and	C24, C25, C28, C29	M/d	0.38	0.38	0.37	0.35	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.34	0.34	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.31	0.30	0.30	
8.11	Input	Transportation and manufacture of transport equipment	C30, H49, H50, H51, H52, H53	M/d	1.07	0.89	0.85	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.86	0.87	0.88	0.88	0.88	0.88	0.89	0.89	0.89	0.89	0.89	
8.12	Input	Electricity, gas and water supplies	D35, E36, E37, E38, E39	M/d	1.23	1.73	1.76	1.74	1.69	1.65	1.62	1.61	1.65	1.69	1.70	1.70	1.69	1.68	1.66	1.64	1.62	1.59	1.57	1.54	1.52	1.50	1.49	1.48	1.47	1.46	1.45	1.44	1.44	
8.13	Input	Construction	F41, F42, F43	M/d	0.25	0.28	0.25	0.23	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	
8.14	Input	Wholesale and retail	G45, G46, G47	M/d	1.84	1.66	1.59	1.53	1.51	1.52	1.52	1.53	1.53	1.54	1.55	1.57	1.58	1.60	1.62	1.63	1.64	1.66	1.67	1.68	1.69	1.69	1.69	1.68	1.68	1.68	1.68	1.68	1.68	
8.15	Input	Hotels, bars and restaurants	I55, I56	M/d	3.41	2.86	2.71	2.57	2.55	2.56	2.58	2.62	2.67	2.72	2.79	2.87	2.95	3.03	3.12	3.21	3.29	3.39	3.48	3.57	3.66	3.73	3.80	3.87	3.95	4.02	4.09	4.16	4.16	
8.16	Input	Other services	J, K, L, M, N, O, R, S, T, U	M/d	8.73	8.31	7.90	7.64	7.61	7.65	7.70	7.76	7.82	7.87	7.92	7.97	8.01	8.04	8.08	8.12	8.15	8.18	8.20	8.23	8.24	8.23	8.21	8.20	8.18	8.17	8.16	8.14	8.14	
8.17	Input	Education and Health	P, Q	M/d	3.77	3.82	3.66	3.58	3.60	3.63	3.66	3.68	3.70	3.72	3.74	3.76	3.78	3.80	3.82	3.84	3.86	3.89	3.92	3.94	3.97	3.96	3.95	3.94	3.93	3.92	3.91	3.90	3.90	
8.18	Input			M/d																														
8.19	Input			M/d																														
8.20	Input			M/d																														

Company: Thames Water

Resource Zone Name: Kennet Valley

Resource Zone Number: 3 of 6

Planning Scenario Name: Dry Year Annual Average

Chosen Level of Service: Company Preferred Level of Service

