

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: Henley
Resource Zone Number: 4 of 6
Planning Scenario Name: Dry Year Critical Period
Chosen Level of Service: Company Preferred Level of Service

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

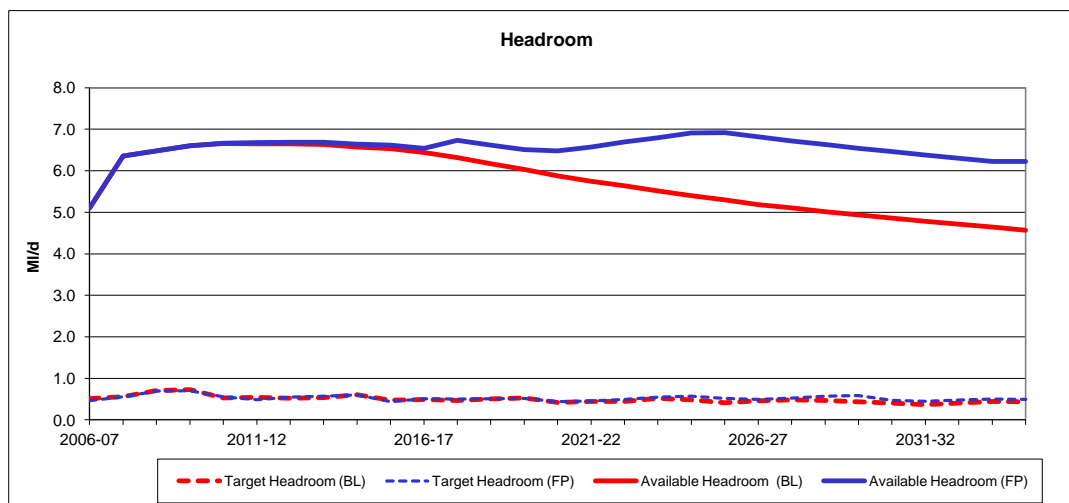
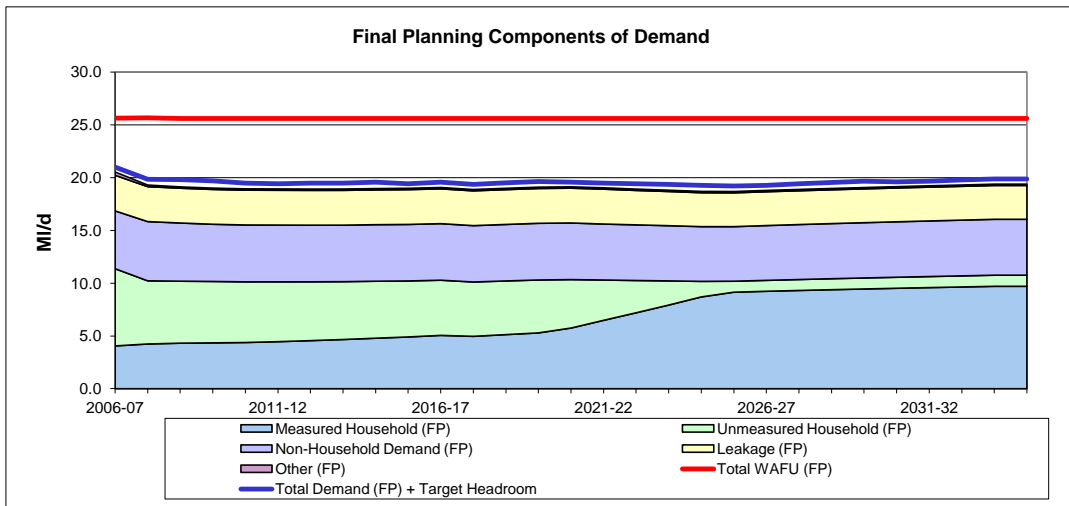
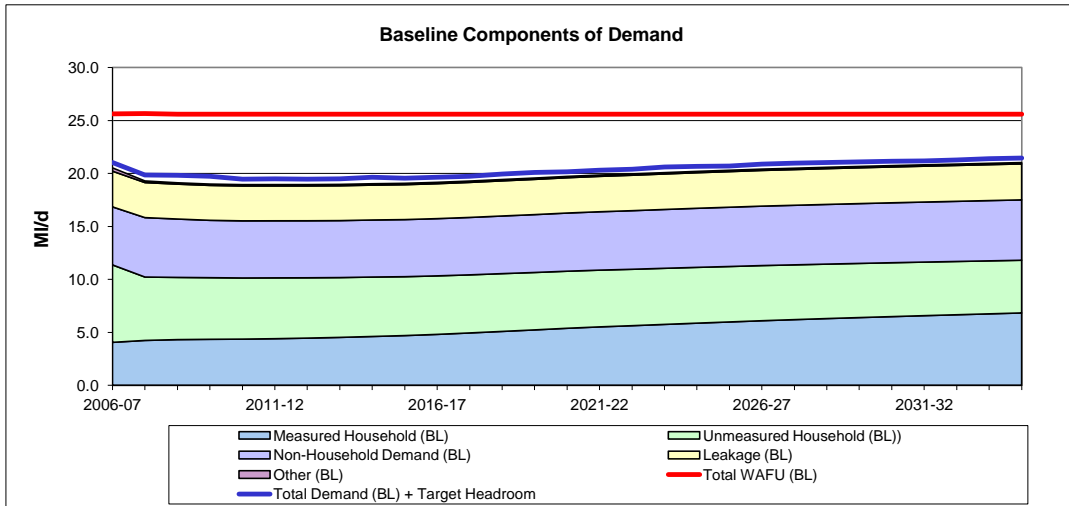
Version: Draft Final WRMP

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Company:	Thames Water
Resource Zone Name:	Henley
Resource Zone Number:	4 of 6
Planning Scenario Name:	Dry Year Critical Period
Chosen Level of Service:	Company Preferred Level of Service

Table WRP1-BL: Baseline supply-demand components

ROW Ref.	DERIVATION	DESCRIPTION	UNITS	Scenario																													
				Year	2007-07	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
BASIC RESOURCES BASELINE																																	
1 _{BL}	Input	Deployable Output (Specify individual Source Yields on Table WRP6)	M/d	26.70	26.70	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65
2 _{BL}	WRP1a-BL 2 _{BL}	Reductions in Deployable Output	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	
3 _{BL}	Input	Outage Allowance	M/d	1.07	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
4 _{BL}	9 _{BL} +11 _{BL}	Process Losses	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	
5 _{BL}	1 _{BL} -(2 _{BL} +3 _{BL} +4 _{BL})	Water Available For Use (own sources)	M/d	25.63	25.65	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	
RAW WATER BASELINE																																	
6 _{BL}	Input	Raw Water Abstracted	M/d	20.84	21.35	20.04	19.92	19.86	19.86	19.87	19.89	19.95	19.99	20.09	20.22	20.37	20.51	20.68	20.81	20.92	21.05	21.17	21.28	21.40	21.49	21.58	21.66	21.74	21.82	21.90	21.97	22.05	
7 _{BL}	WRP1a-BL 7 _{BL}	Raw Water Exported (existing)	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	
8 _{BL}	WRP1a-BL 8 _{BL}	Raw Water Imported (existing)	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	
9 _{BL}	Input	Raw Water Losses and Operational Use	M/d	0.00	0.00	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
10 _{BL}	WRP1a-BL 10 _{BL}	Non Potable Supplies (existing)	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	
POTABLE WATER TO POINT OF DELIVERY BASELINE																																	
11 _{BL}	Input	Treatment Works Losses and Operational Use	M/d	0.03	0.84	0.83	0.82	0.82	0.82	0.82	0.82	0.82	0.83	0.83	0.83	0.84	0.84	0.85	0.85	0.86	0.86	0.87	0.88	0.88	0.88	0.89	0.89	0.90	0.90	0.90	0.91	0.91	
12 _{BL}	WRP1a-BL 12 _{BL}	Potable Water Exported	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	
13 _{BL}	WRP1a-BL 13 _{BL}	Potable Water Imported	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	
14 _{BL}	Input	Distribution Input	M/d	20.53	19.30	19.12	19.00	18.95	18.95	18.95	18.97	19.03	19.07	19.17	19.29	19.43	19.57	19.73	19.86	19.96	20.08	20.20	20.31	20.42	20.50	20.59	20.67	20.75	20.82	20.89	20.96	21.03	
15 _{BL}	Input	Distribution Losses	M/d	2.42	2.37	2.36	2.36	2.36	2.35	2.35	2.34	2.34	2.34	2.35	2.35	2.34	2.34	2.34	2.34	2.42	2.44	2.44	2.44	2.44	2.45	2.45	2.44	2.44	2.44	2.44	2.44	2.44	
16 _{BL}	Input	Distribution System Operational Use	M/d	0.06	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	
17 _{BL}	14 _{BL} -15 _{BL} -16 _{BL}	Water Delivered	M/d	18.05	16.89	16.73	16.61	16.56	16.56	16.57	16.59	16.65	16.69	16.74	16.90	17.05	17.18	17.33	17.44	17.52	17.63	17.73	17.83	17.94	18.02	18.11	18.19	18.27	18.34	18.41	18.49	18.56	
POTABLE WATER CUSTOMER USE BASELINE																																	
18 _{BL}	Input	Unmeasured Household - Population	000's	26.329	24.796	24.447	24.296	24.180	24.119	23.966	23.793	23.679	23.484	23.345	23.173	23.027	22.847	22.691	22.515	22.324	22.165	21.993	21.796	21.615	21.402	21.214	21.029	20.848	20.665	20.476	20.292	20.106	
19 _{BL}	Input	Unmeasured Household - Properties	000's	10.087	9.718	9.592	9.476	9.370	9.274	9.178	9.082	8.986	8.890	8.794	8.698	8.602	8.506	8.410	8.314	8.218	8.122	8.026	7.930	7.834	7.738	7.642	7.546	7.450	7.354	7.258	7.162	7.066	
20 _{BL}	18 _{BL} /19 _{BL}	Unmeasured Household - Occupancy Rate	h/yr	2.61	2.55	2.55	2.56	2.58	2.60	2.61	2.62	2.64	2.64	2.65	2.66	2.68	2.69	2.70	2.71	2.72	2.73	2.74	2.75	2.76	2.77	2.78	2.79	2.80	2.81	2.82	2.83	2.85	
21 _{BL}	WRP6-6.1 _{BL}	Measured Household - Population	000's	18.627	20.191	20.605	20.807	20.955	21.197	21.503	21.860	22.302	22.719	23.291	23.919	24.591	25.234	25.908	26.460	26.905	27.382	27.850	28.284	28.731	29.110	29.481	29.824	30.172	30.508	30.833	31.177	31.524	
22 _{BL}	WRP6-6.2 _{BL}	Measured Household - Properties	000's	8.880	9.158	9.395	9.504	9.581	9.679	9.837	10.025	10.225	10.447	10.712	11.014	11.324	11.637	11.952	12.225	12.463	12.697	12.935	13.172	13.405	13.624	13.826	14.016	14.206	14.392	14.577	14.769	14.964	
23 _{BL}	21 _{BL} /22 _{BL}	Measured Household - Occupancy Rate	h/yr	2.10	2.20	2.19	2.19	2.19	2.19	2.19	2.18	2.18	2.17	2.17	2.17	2.17	2.17	2.17	2.16	2.16	2.16	2.15	2.15	2.14	2.14	2.13	2.13	2.12	2.12	2.12	2.11	2.11	
24 _{BL}	Input	Unmeasured Non Household - Population	000's	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
25 _{BL}	Input	Unmeasured Non Household - Properties	000's	0.061	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	
26 _{BL}	Input	Measured Non Household - Population	000's	2.056	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	
27 _{BL}	Input	Measured Non Household - Properties	000's	1.242	1.212	1.227	1.222	1.258	1.273	1.288	1.303	1.318	1.334	1.349	1.364	1.379	1.395	1.410	1.425	1.440	1.455	1.471	1.486	1.501	1.516	1.531	1.547	1.562	1.577	1.592	1.608	1.623	
28 _{BL}	18 _{BL} +21 _{BL} +24 _{BL} +25 _{BL}	Total Population	000's	47.012	47.159	47.224	47.275	47.306	47.488	47.640	47.825	48.153	48.375	48.807	49.263	49.789	50.253	50.771	51.147	51.401	51.719	52.015	52.252	52.517	52.684	52.967	53.025	53.192	53.345	53.480	53.640	53.801	
29 _{BL}	Input	Void Households	000's	0.318	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	
30 _{BL}	Input	Void Non Households	000's	0.135	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	
30.1 _{BL}	22 _{BL} /(22 _{BL} +19 _{BL})	Total Household Metering penetration (excl. voids)	%	47%	49%	49%	50%	51%	51%	52%	52%	52%	53%	54%	55%	56%	57%	58%	59%	60%	61%	62%	62%	63%	64%	64%	65%	66%	66%	67%	68%		
30.2 _{BL}	22 _{BL} /(22 _{BL} +19 _{BL} +29 _{BL})	Total Household Metering penetration (incl. voids)	%	46%	48%	49%	49%	50%	50%	51%	51%	52%	53%	54%	55%	56%	57%	58%	59%	60%	61%	62%	63%	63%	64%	64%	65%	66%	66%	67%	68%		
31 _{BL}	19 _{BL} +22 _{BL} +25 _{BL} +27 _{BL} +29 _{BL} +30 _{BL}	Total Properties	000's	20.723	20.654	20.780	20.789	20.775	20.792	20.870	20.976	21.096	21.237	21.421	21.643	21.871	22.104	22.338	22.531	22.687	22.840	22.998	23.154	23.306	23.445	23.566	23.675	23.784	23.890	23.994	24.105	24.219	
POTABLE WATER DELIVERED BASELINE																																	
32 _{BL}	Input	Water Taken Unbilled	M/d	0.28	0.15	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13		
33 _{BL}	Input	Water Delivered Unmeasured Household	M/d	7.99	6.63	6.52	6.46	6.41	6.38	6.33	6.28	6.24	6.19	6.15	6.10	6.07	6.03	5.99	5.95	5.90	5.86	5.82	5.78	5.75	5.71	5.68	5.65	5.62	5.59	5.55	5.52	5.49	

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	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		
				Year 2006-07																														
2a _{BL}	Input as appropriate	Reductions in Baseline Deployable Output. 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		
		<i>Climate change</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		
		<i>Sustainability Reduction</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		
		<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 _{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	0.00	
			M/d																															
			M/d																															
			M/d																															
		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	0.00	
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	0.00	
			M/d																															

Company: Thames Water

Resource Zone Name: Henley

Resource Zone Number: 4 of 6

Planning Scenario Name: Dry Year Critical Period

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)		1.55	2010/11	7484.69	2099.99	463.96	-280.73	67.08	2631.04	30.51	31.40
		Targetted compulsory metering (New Powers)		1.55	2010/11	7484.69	1425.25	386.64	-280.73	67.08	1878.97	20.46	21.35
		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)		0.05	2010/11	292.60	920.55	103.80	-5.32	67.08	1091.44	348.27	371.19
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....											
		Sheeplands Licence Disaggregation	PR09 HEN 01	8.5	2013	66906.48	13433.53	7123.03	0.00	809.34	21365.90	30.72	31.93

Company:	<u>Thames Water</u>
Resource Zone Name:	<u>Henley</u>
Resource Zone Number:	<u>4</u> of <u>6</u>
Planning Scenario Name:	<u>Dry Year Critical Period</u>
Chosen Level of Service:	<u>Company Preferred Level of Service</u>

Table WRP4-FP: Final planning supply-demand components

ROW Ref.	DERIVATION	DESCRIPTION	UNITS	Scenario Year	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	
BASIC RESOURCES FINAL PLANNING																																	
1 _{FP}	Input	Deployable Output	Mld	26.70	26.70	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	26.65	
2 _{FP}	WRP4a-FP 2a _{FP}	Reductions in Deployable Output	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3 _{FP}	Input	Outage Allowance	Mld	1.07	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05		
4 _{FP}	0 _{FP} +11 _{FP}	Process Losses	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5 _{FP}	1 _{FP} +2 _{FP} +3 _{FP} +4 _{FP}	Water Available For Use (own sources)	Mld	25.63	25.65	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	
RAW WATER FINAL PLANNING																																	
6 _{FP}	Input	Raw Water Abstracted	Mld	20.84	20.50	20.04	19.92	19.85	19.84	19.83	19.83	19.88	19.90	19.98	19.78	19.90	20.02	20.05	19.95	19.82	19.72	19.60	19.58	19.69	19.79	19.89	19.98	20.07	20.15	20.23	20.31	19.23	
7 _{FP}	WRP4a-FP 7a _{FP}	Raw Water Exported	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 _{FP}	WRP4a-FP 8a _{FP}	Raw Water Imported	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9 _{FP}	Input	Raw Water Losses and Operational Use	Mld	0.00	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		
10 _{FP}	WRP4a-FP 10a _{FP}	Non Potable Supplies	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
POTABLE WATER TO POINT OF DELIVERY FINAL PLANNING																																	
11 _{FP}	Input	Treatment Works Losses and Operational Use	Mld	0.03	0.84	0.83	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.83	0.82	0.82	0.83	0.83	0.82	0.82	0.81	0.81	0.81	0.81	0.81	0.82	0.82	0.83	0.83	0.83	0.84	0.79	
12 _{FP}	WRP4a-FP 12a _{FP}	Potable Water Exported	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
13 _{FP}	WRP4a-FP 13a _{FP}	Potable Water Imported	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
14 _{FP}	Input	Distribution Input	Mld	20.53	19.30	19.12	19.00	18.94	18.93	18.92	18.92	18.96	18.99	19.06	18.87	18.99	19.10	19.13	19.03	18.91	18.81	18.70	18.68	18.79	18.88	18.97	19.06	19.14	19.22	19.30	19.38	19.38	
15 _{FP}	Input	Distribution Losses	Mld	2.42	2.37	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	
16 _{FP}	Input	Distribution System Operational Use	Mld	0.06	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	
17 _{FP}	14 _{FP} +15 _{FP} +16 _{FP}	Water Delivered	Mld	18.05	16.89	16.73	16.64	16.54	16.53	16.52	16.57	16.59	16.67	16.48	16.59	16.70	16.74	16.73	16.63	16.54	16.45	16.36	16.35	16.46	16.55	16.64	16.73	16.81	16.89	16.97	17.05	17.05	
POTABLE WATER CUSTOMER USE FINAL PLANNING																																	
18 _{FP}	Input	Unmeasured Household - Population	000s	26.329	24.796	24.447	24.296	24.083	23.828	23.484	23.127	22.834	22.473	22.171	21.842	21.544	21.221	19.464	16.236	13.003	9.735	6.204	4.333	4.329	4.318	4.312	4.307	4.303	4.298	4.292	4.286	4.286	
19 _{FP}	Input	Unmeasured Household - Properties	000s	10.087	9.718	9.592	9.476	9.328	9.149	8.972	8.800	8.631	8.468	8.309	8.152	7.999	7.850	7.136	5.853	4.573	3.297	2.026	1.391	1.391	1.391	1.391	1.391	1.391	1.391	1.391	1.391	1.391	
20 _{FP}	18 _{FP} /19 _{FP}	Unmeasured Household - Occupancy Rate	h/pt	2.61	2.55	2.55	2.56	2.58	2.60	2.62	2.63	2.65	2.67	2.68	2.69	2.70	2.73	2.77	2.84	2.95	3.06	3.11	3.11	3.11	3.10	3.10	3.10	3.10	3.09	3.08	3.08	3.08	
21 _{FP}	WRP6a-6.1 _{FP}	Measured Household - Population	000s	18.627	20.191	20.605	20.807	21.052	21.488	21.985	22.526	23.147	23.731	24.464	25.250	26.074	26.861	29.135	32.740	36.226	39.812	43.639	45.747	46.017	46.195	46.363	46.546	46.717	46.875	47.017	47.182	47.349	
22 _{FP}	WRP6a-6.2 _{FP}	Measured Household - Properties	000s	8.880	9.158	9.395	9.504	9.622	9.803	10.043	10.307	10.581	10.869	11.197	11.560	11.926	12.292	13.226	14.686	16.107	17.521	18.935	19.711	19.847	19.971	20.077	20.171	20.264	20.355	20.444	20.540	20.638	
23 _{FP}	21 _{FP} /22 _{FP}	Measured Household - Occupancy Rate	h/pt	2.10	2.20	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.18	2.18	2.18	2.19	2.19	2.20	2.23	2.25	2.27	2.30	2.32	2.32	2.31	2.31	2.31	2.30	2.30	2.30	2.29		
24 _{FP}	Input	Unmeasured Non Household - Population	000s	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
25 _{FP}	Input	Unmeasured Non Household - Properties	000s	0.061	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	
26 _{FP}	Input	Measured Non Household - Population	000s	2.056	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	
27 _{FP}	Input	Measured Non Household - Properties	000s	1.242	1.212	1.227	1.242	1.258	1.273	1.288	1.303	1.318	1.334	1.349	1.364	1.379	1.395	1.410	1.425	1.440	1.455	1.471	1.486	1.501	1.516	1.531	1.547	1.562	1.577	1.592	1.608	1.608	
28 _{FP}	18 _{FP} +21 _{FP} +24 _{FP} +26 _{FP}	Total Population	000s	47.012	47.159	47.224	47.275	47.306	47.488	47.640	47.825	48.153	48.375	48.807	49.263	49.789	50.253	50.771	51.147	51.401	51.719	52.015	52.252	52.517	52.684	52.867	53.025	53.192	53.345	53.480	53.640	53.807	
29 _{FP}	Input	Void Households	000s	0.318	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	
30 _{FP}	Input	Void Non Households	000s	0.135	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	
30.1 _{FP}	22 _{FP} /(22 _{FP} +19 _{FP} +19 _{FP})	Total Household Metering penetration (excl. voids)	%	47%	49%	49%	50%	51%	52%	53%	54%	55%	56%	57%	59%	60%	61%	65%	72%	78%	84%	90%	93%	93%	93%	94%	94%	94%	94%	94%	94%		
30.2 _{FP}	22 _{FP} /(22 _{FP} +19 _{FP} +29 _{FP})	Total Household Metering penetration (incl. voids)	%	46%	49%	49%	49%	50%	51%	52%	53%	54%	55%	56%	58%	60%	64%	70%	77%	83%	89%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%		
31 _{FP}	19 _{FP} +22 _{FP} +25 _{FP} +27 _{FP} +29 _{FP} +30 _{FP}	Total Properties	000s	20.723	20.654	20.780	20.789	20.774	20.792	20.869	20.976	21.096	21.237	21.421	21.643	21.871	22.103	22.338	22.531	22.687	22.840	22.997	23.154	23.3									

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	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	
				Year 2006-07																													
2a _{FP}	Input as appropriate	Reductions in Final Planning Deployable Output. 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	
		<i>Climate change</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	
		<i>Sustainability Reduction</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	
		<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																														
		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	
			M/d																														
			M/d																														
			M/d																														
		<i>Baseline Potable Water Imported. Total here and specify below</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																														
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	
			M/d																														
		<i>Thames Water</i>																															
		<i>Henley</i>																															
		... 4 of 6 ...																															

Company: Thames Water

Resource Zone Name: Henley

Resource Zone Number: 4 of 6

Planning Scenario Name: Dry Year Critical Period

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	28/39/23/0008	Greys Road	GW		4.60	4.55	L	1972-1999	
5.2	Input	28/39/23/0010	Harpsden T *	GW		18.00	18.00	Q / L	1985-1997	
5.3	Input	28/39/24/0020	Sheeplands *	GW		4.10	18.18	Q / L	1929-1997	
5.4	Input									
5.5	Input		* Licenced volume or DO aggregated with another source							
5.6	Input		** Aggregated with the source value above it							
5.7	Input									
5.8	Input		L = Licence							
5.9	Input		Q = Quality							
5.10	Input		P = Pump Size or Depth							
5.11	Input		GWL = Low Groundwater Levels							
5.12	Input		B = Borehole depth or restriction							
5.13	Input		T = Treatment							
5.14	Input		RWL = Rest Water Level							
5.15	Input		PWL = Pumping Water Level							
5.16	Sum (5.1-6.40) Total reconciled DO				0.00	26.70	40.73			

Company:	<u>Thames Water</u>
Resource Zone Name	<u>Henley</u>
Resource Zone Number:	<u>4 of 6</u>
Planning Scenario Name:	<u>Dry Year Critical Period</u>
Chosen Level of Service:	<u>Company Preferred Level</u> of Service

Table WRP6: Baseline breakdown of measured households

Row Ref	Derivation	Description	Units	Scenario Year	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
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	18.63	20.19	20.61	20.81	20.95	21.20	21.50	21.86	22.30	22.72	23.29	23.92	24.59	25.23	25.91	26.46	26.91	27.38	27.85	28.28	28.73	29.11	29.48	29.82	30.17	30.51	30.83	31.18	31.52
6.2 _{BL}	6.6 _{BL} +6.10 _{BL} +6.14 _{BL} +6.18 _{BL} +6.2 _{BL} +6.26 _{BL}	Total	Properties	000's	8.88	9.16	9.39	9.50	9.58	9.68	9.84	10.02	10.23	10.45	10.71	11.01	11.32	11.64	11.95	12.23	12.46	12.70	12.93	13.17	13.40	13.62	13.83	14.02	14.21	14.39	14.58	14.77	14.96
6.3 _{BL}	6.1 _{BL} /6.2 _{BL}	Total	Occupancy	h/prop	2.10	2.20	2.19	2.19	2.19	2.19	2.19	2.18	2.18	2.17	2.17	2.17	2.17	2.17	2.17	2.16	2.16	2.16	2.15	2.15	2.14	2.14	2.13	2.13	2.12	2.12	2.11	2.11	
6.5 _{BL}	Input	Meter optants	Population	000's		0.16	0.35	0.52	0.68	0.83	0.99	1.15	1.30	1.46	1.61	1.77	1.92	2.08	2.23	2.38	2.54	2.69	2.84	3.00	3.15	3.31	3.46	3.62	3.77	3.93	4.08	4.23	
6.6 _{BL}	Input	Meter optants	Properties	000's		0.10	0.22	0.32	0.42	0.51	0.61	0.71	0.80	0.90	0.99	1.09	1.19	1.28	1.38	1.47	1.57	1.67	1.76	1.86	1.95	2.05	2.15	2.24	2.34	2.43	2.53	2.63	
6.7 _{BL}	6.5 _{BL} /6.6 _{BL}	Meter optants	Occupancy	h/prop	#DIV/0!	1.61	1.61	1.61	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	
6.8 _{BL}	Input	Meter optants	pcc	1h/d		139.91	139.78	139.44	139.18	138.97	138.99	138.99	139.23	139.35	139.76	140.26	140.83	141.54	142.31	143.32	144.30	145.29	146.27	147.30	148.46	149.62	150.69	151.64	152.54	153.41	154.26	155.20	
6.9 _{BL}	Input	New properties	Population	000's		0.32	0.31	0.24	0.24	0.39	0.61	0.86	1.15	1.55	2.04	2.55	3.06	3.58	3.99	4.32	4.65	4.98	5.30	5.61	5.89	6.13	6.34	6.56	6.76	6.96	7.17	7.39	
6.10 _{BL}	Input	New properties	Properties	000's		0.14	0.13	0.10	0.10	0.16	0.26	0.36	0.49	0.66	0.86	1.08	1.29	1.51	1.69	1.83	1.97	2.11	2.25	2.39	2.51	2.62	2.71	2.81	2.90	2.98	3.08	3.18	
6.11 _{BL}	6.9 _{BL} /6.10 _{BL}	New properties	Occupancy	h/prop	#DIV/0!	2.35	2.36	2.36	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.36	2.36	2.35	2.35	2.35	2.34	2.34	2.34	2.33	2.33	2.33	2.33	
6.12 _{BL}	Input	New properties	pcc	1h/d		144.96	144.68	144.93	144.58	141.48	138.86	136.68	134.81	133.36	132.63	132.35	132.34	132.57	133.00	133.75	134.48	135.21	135.98	136.82	137.80	138.81	139.76	140.58	141.35	142.09	142.78	143.47	
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	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	1h/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	0.00																												
6.18 _{BL}	Input	Selective metering	Properties	000's	0.00																												
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	1h/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	1h/d																													
6.25 _{BL}	Input	Existing Metering	Population	000's	18.63	20.19	20.12	20.15	20.20	20.28	20.28	20.26	20.30	20.27	20.28	20.27	20.27	20.25	20.25	20.24	20.20	20.20	20.18	20.14	20.12	20.07	20.04	20.02	20.00	19.97	19.95	19.92	19.90
6.26 _{BL}	Input	Existing Metering	Properties	000's	8.88	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16
6.27 _{BL}	6.25 _{BL} /6.26 _{BL}	Existing Metering	Occupancy	h/prop	2.10	2.20	2.20	2.20	2.21	2.21	2.21	2.21	2.22	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.20	2.20	2.19	2.19	2.19	2.19	2.18	2.18	2.18	2.17	
6.28 _{BL}	Input	Existing Metering	pcc	1h/d	0.00	152.25	152.03	151.62	151.23	150.81	150.82	150.88	150.97	151.28	151.66	152.36	153.14	154.06	155.03	156.06	157.13	158.11	159.13	160.21	161.19	162.20	163.04	163.80	164.46	165.05	165.59	166.03	166.36

Company:	Thames Water
Resource Zone Name	Henley
Resource Zone Number:	4 of 6
Planning Scenario Name:	Dry Year Critical Period
Chosen Level of Service:	Company Preferred Level of Service

Table WRP6a: Final planning breakdown of measured households

Row Ref	Derivation	Description	Units	Scenario Year	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	18.63	20.19	20.61	20.81	21.05	21.49	21.98	22.53	23.15	23.73	24.46	25.25	26.07	26.86	29.14	32.74	36.23	39.81	43.64	45.75	46.02	46.19	46.38	46.55	46.72	46.88	47.02	47.18	47.35
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	8.88	9.16	9.39	9.50	9.62	9.80	10.04	10.31	10.58	10.87	11.20	11.56	11.93	12.29	13.23	14.69	16.11	17.52	18.93	19.71	19.85	19.97	20.08	20.17	20.26	20.35	20.44	20.54	20.64
6.3 _{pp}	6.1 _{pp} /6.2 _{pp}	Total	Occupancy	h/prop	2.10	2.20	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.18	2.18	2.18	2.19	2.19	2.20	2.23	2.25	2.27	2.30	2.32	2.31	2.31	2.31	2.31	2.30	2.30	2.30	2.29	
6.5 _{pp}	Input	Meter optants	Population	000's		0.16	0.35	0.54	0.73	0.91	1.09	1.26	1.42	1.58	1.73	1.88	2.02	2.15	2.28	2.41	2.54	2.69	2.78	2.78	2.77	2.77	2.76	2.76	2.76	2.75	2.75	2.75	
6.6 _{pp}	Input	Meter optants	Properties	000's		0.10	0.22	0.33	0.45	0.56	0.67	0.78	0.88	0.98	1.07	1.16	1.25	1.33	1.41	1.49	1.57	1.64	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
6.7 _{pp}	6.5 _{pp} /6.6 _{pp}	Meter optants	Occupancy	h/prop	#DIV/0!	#DIV/0!	1.61	1.61	1.61	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.64	1.66	1.66	1.65	1.65	1.65	1.65	1.65	1.64	1.64	1.64	1.64
6.8 _{pp}	Input	Meter optants	pcc	l/h/d		139.91	139.78	138.30	138.08	138.91	138.93	138.92	139.13	139.21	132.58	132.95	133.36	133.83	134.28	134.91	135.46	135.44	135.57	136.58	137.72	138.85	139.90	140.84	141.73	142.61	143.47	144.36	
6.9 _{pp}	Input	New properties	Population	000's		0.32	0.31	0.24	0.24	0.39	0.61	0.86	1.15	1.55	2.04	2.55	3.06	3.58	4.00	4.32	4.65	4.97	5.28	5.60	5.87	6.11	6.32	6.54	6.74	6.94	7.15	7.37	
6.10 _{pp}	Input	New properties	Properties	000's		0.14	0.13	0.10	0.10	0.16	0.26	0.36	0.49	0.66	0.86	1.08	1.29	1.51	1.69	1.83	1.97	2.11	2.25	2.39	2.51	2.62	2.71	2.81	2.90	2.98	3.08	3.18	
6.11 _{pp}	6.9 _{pp} /6.10 _{pp}	New properties	Occupancy	h/prop	#DIV/0!	#DIV/0!	2.35	2.36	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.36	2.36	2.36	2.35	2.34	2.34	2.34	2.33	2.33	2.33	2.32	2.32	2.32
6.12 _{pp}	Input	New properties	pcc	l/h/d		144.96	144.68	144.74	144.42	141.42	138.84	136.68	134.82	133.37	125.98	125.65	125.63	125.82	126.29	126.72	127.12	127.75	128.52	129.42	130.33	131.19	131.92	132.61	133.27	133.90	134.54		
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	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	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	0.00	
6.17 _{pp}	Input	Selective metering	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	
6.18 _{pp}	Input	Selective metering	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	
6.19 _{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				0.08	0.24	0.40	0.56	0.73	0.89	1.05	1.21	1.37	1.53	3.15	6.22	9.29	12.40	15.82	17.61	17.59	17.55	17.52	17.50	17.49	17.47	17.44	17.42	17.40	
6.22 _{pp}	Input	Compulsory metering	Properties	000's				0.03	0.09	0.16	0.22	0.28	0.35	0.41	0.47	0.53	0.60	1.23	2.43	3.63	4.83	6.03	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	
6.23 _{pp}	6.21 _{pp} /6.22 _{pp}	Compulsory metering	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	2.56	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.56	2.56	2.57	2.63	2.66	2.65	2.65	2.64	2.64	2.64	2.64	2.63	2.63	2.63	
6.24 _{pp}	Input	Compulsory metering	pcc	l/h/d				147.94	147.49	147.16	146.86	146.57	146.37	146.18	138.89	138.96	139.10	138.93	138.62	138.60	138.60	138.62	138.60	138.60	141.23	140.83	141.35	141.90	142.46	143.02	143.59	144.17	144.77
6.25 _{pp}	Input	Existing Metering	Population	000's	18.63	20.19	20.12	20.15	20.20	20.28	20.26	20.30	20.27	20.28	20.27	20.28	20.25	20.26	20.24	20.22	20.15	20.08	20.05	20.01	19.98	19.96	19.94	19.91	19.89	19.86	19.84		
6.26 _{pp}	Input	Existing Metering	Properties	000's	8.88	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	
6.27 _{pp}	6.25 _{pp} /6.26 _{pp}	Existing Metering	Occupancy	h/prop	2.10	2.20	2.20	2.20	2.21	2.21	2.21	2.21	2.22	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	
6.28 _{pp}	Input	Existing Metering	pcc	l/h/d	0.00	152.25	152.03	151.62	151.10	150.85	150.88	151.02	151.17	151.55	151.96	145.04	145.74	146.54	147.64	149.18	150.83	152.27	152.58	152.80	154.56	155.77	156.88	157.50	158.20	158.85	159.50	160.04	

Company: Thames Water

Resource Zone Name: Henley

Resource Zone Number: 4 of 6

Planning Scenario Name: Dry Year Critical Period

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																															
7.2	Input	Unmeasured bath use	l/h/d																															
7.3	Input	Unmeasured shower use	l/h/d																															
7.4	Input	Unmeasured hand basin	l/h/d																															
7.5	Input	Unmeasured clothes washing	l/h/d																															
7.6	Input	Unmeasured dish washing	l/h/d																															
7.7	Input	Unmeasured garden use	l/h/d																															
7.8	Input	Unmeasured car washing	l/h/d																															
7.9	Input	Unmeasured miscellaneous use	l/h/d																															
7.10	Input	Unmeasured wastage	l/h/d																															
7.11	Input	Unmeasured water efficiency	l/h/d																															
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7.20	Input	Measured toilet flushing	l/h/d																															
7.21	Input	Measured bath use	l/h/d																															
7.22	Input	Measured shower use	l/h/d																															
7.23	Input	Measured hand basin	l/h/d																															
7.24	Input	Measured clothes washing	l/h/d																															
7.25	Input	Measured dish washing	l/h/d																															
7.26	Input	Measured garden use	l/h/d																															
7.27	Input	Measured car washing	l/h/d																															
7.28	Input	Measured miscellaneous use	l/h/d																															
7.29	Input	Measured wastage	l/h/d																															
7.30	Input	Measured water efficiency	l/h/d																															
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Company: Thames Water
Resource Zone Name: Henley
Resource Zone Number: 4 of 6
Planning Scenario Name: Dry Year Critical Period
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																													
8.2	Input	Extraction of metals, minerals and energy producing materials	B5, B6, B7, B8, B9	M/d																													
8.3	Input	Food and drink (manufacture)	C10, C11, C12	M/d																													
8.4	Input	Textile, fur and leather (manufacture)	C13, C14, C15	M/d																													
8.5	Input	Other manufacturing	C16, C26, C27, C31, C32, C33	M/d																													
8.6	Input	Paper (manufacture)	C17, C18	M/d																													
8.7	Input	Fuel refining	C19	M/d																													
8.8	Input	Chemicals, rubbers, plastics and man-made material (manufacture)	C20, C21, C22	M/d																													
8.9	Input	Manufacture of non-metallic minerals	C23	M/d																													
8.10	Input	Manufacture of basic metals, fabricated metal products and	C24, C25, C28, C29	M/d																													
8.11	Input	Transportation and manufacture of transport equipment	C30, H49, H50, H51, H52, H53	M/d																													
8.12	Input	Electricity, gas and water supplies	D35, E36, E37, E38, E39	M/d																													
8.13	Input	Construction	F41, F42, F43	M/d																													
8.14	Input	Wholesale and retail	G45, G46, G47	M/d																													
8.15	Input	Hotels, bars and restaurants	I55, I56	M/d																													
8.16	Input	Other services	J, K, L, M, N, O, R, S, T, U	M/d																													
8.17	Input	Education and Health	P, Q	M/d																													
8.18	Input			M/d																													
8.19	Input			M/d																													
8.20	Input			M/d																													

Company:	<u>Thames Water</u>
Resource Zone Name	<u>Henley</u>
Resource Zone Number:	<u>4</u> of <u>6</u>
Planning Scenario Name:	<u>Dry Year Critical Period</u>
Chosen Level of Service:	<u>Company Preferred Level of Service</u>

Table WRP9: Normal year final planning supply-demand components

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			
BASIC RESOURCES NORMAL YEAR																																			
3 _N	Input	Outage Allowance	Mld																																
5 _N	Input	Water Available For Use (own sources)	Mld																																
RAW WATER NORMAL YEAR																																			
6 _N	Input	Raw Water Abstracted	Mld																																
7 _N	Input	Raw Water Exported (existing)	Mld																																
8 _N	Input	Raw Water Imported (existing)	Mld																																
9 _N	Input	Raw Water Losses and Operational Use	Mld																																
10 _N	Input	Non Potable Supplies (existing)	Mld																																
POTABLE WATER TO POINT OF DELIVERY NORMAL YEAR																																			
11 _N	Input	Treatment Works Losses and Operational Use	Mld																																
12 _N	Input	Potable Water Exported	Mld																																
13 _N	Input	Potable Water Imported	Mld																																
14 _N	Input	Distribution Input	Mld																																
15 _N	Input	Distribution Losses	Mld																																
16 _N	Input	Distribution System Operational Use	Mld																																
17 _N	14 _N +15 _N +16 _N	Water Delivered	Mld	0.00																															
POTABLE WATER DELIVERED NORMAL YEAR																																			
32 _N	Input	Water Taken Unbilled	Mld																																
33 _N	Input	Water Delivered Unmeasured Household	Mld																																
34 _N	Input	Unmeasured Household - USPL	Mld																																
35 _N	33 _N -34 _N	Unmeasured Household - Consumption	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
36 _N	Input	Unmeasured Household - PCC	l/hd																																
37 _N	Input	Water Delivered Measured Household	Mld																																
38 _N	Input	Measured Household - USPL	Mld																																
39 _N	37 _N -38 _N	Measured Household - Consumption	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
40 _N	Input	Measured Household - PCC	l/hd																																
41 _N	Input	Water Delivered Unmeasured Non Household	Mld																																
42 _N	Input	Unmeasured Non Household - USPL	Mld																																
43 _N	41 _N -42 _N	Unmeasured Non Household - Consumption	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
44 _N	Input	Water Delivered Measured Non Household	Mld																																
45 _N	Input	Measured Non Household - USPL	Mld																																
46 _N	44 _N -45 _N	Measured Non Household - Consumption	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
47 _N	Input	Void Properties - USPL	Mld																																
LEAKAGE NORMAL YEAR																																			
48 _N	Input	Total Leakage	Mld																																
49 _N	Input	Total Leakage	l/psd																																
SUPPLY DEMAND BALANCE NORMAL YEAR																																			
50 _N	5 _N +(8 _N +13 _N)-(7 _N +12 _N)-10 _N	Total Water Available For Use	Mld	0.00																															
51 _N	Input	Available Headroom	Mld																																
52 _N	Input	Target Headroom	Mld																																
53 _N	51 _N -52 _N	Supply Demand Balance	Mld	0.00																															

Company:	Thames Water
Resource Zone Name:	Henley
Resource Zone Number:	4 of 6
Planning Scenario Name:	Dry Year Critical Period
Chosen Level of Service:	Company Preferred Level of Service