

Water Resources Planning Tables 2019

v14 - October 2017

All queries on the content of this workbook should be sent to:
water-company-plan@environment-agency.gov.uk



Environment
Agency



Cyfoeth Naturiol Cymru
Natural Resources Wales

Water resource zone information

Company:	Portsmouth Water
Resource Zone Name:	Company
Resource Zone Number:	PRT 1
Planning Scenario Name:	Dry Year Annual Average
Chosen Level of Service:	1 in 200
Base Year:	2015-16
Responsible Officer:	Steve Morley
Version:	Draft Plan Publication

Severe Drought

Signed:

Stephen Morley

Dated: 05.03.18

[Digital signature is acceptable]

Key to cells

	Clear cells - indicate an input is required
	Yellow shaded cells - indicates a formula.
	Blue shaded cells - indicate base year data.
	Light grey shaded cells - indicate preceding years.
	Dark grey cells - indicate that no data entry is required.

Worksheet

- WRZ summary
- 1. BL Licences
- 2. BL Supply
- 3. BL Demand
- 4. BL SDB
- 5. Feasible options
- 6. Preferred options
- 7. FP Supply
- 8. FP Demand
- 9. FP SDB
- 10. Drought plan links

Content

- Supply-Demand Balance and components
- Baseline water resources
- Baseline water supplies
- Baseline demand
- Baseline supply demand balance
- Fixed and Variable costs, Net Present Value, AIC and AISC of all feasible options (confidential)
- High level costs of preferred options (Dry Year) - publicly available
- Final Planning water supplies (impact of Scenario options)
- Final Planning demand (impact of Scenario options)
- Final Planning supply demand balance
- Drought plan links

Portsmouth Water
Company

Baseline Supply-Demand Balance:

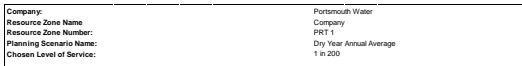


Table 1: Baseline licences

Row ref	Derivation	Licence number	Source name	Source type	Deployable output (MI/d)	Annual licensed quantity (MI/d)	Constraints on deployable output	Additional notes (if desired)
All individual licences:					190.70	311.63		
0.1BL	Sum (0.1BL+...)	-	-	-	114.70	218.21	-	
	Input		Source A	SW:River	20.00	45.50	Licence	Licence varied 2011 MRF set
	Input		Source C	GW	16.30	20.51	Licence	Turbidity issues
	Input		Source D	GW	0.80	0.00	Pump level	Linked to Source C
	Input		Source E	GW	0.40	0.46	Licence	Standby source
	Input		Source F	GW	6.90	9.02	Licence	Licence varied 2015 Augmentation
	Input		Source G	GW	1.50	0.00	Licence	Linked to Source S
	Input		Source H	GW	7.20	9.12	Licence	Flow condition
	Input		Source I	GW	1.40	1.50	Flow condition	Licence varied 2015 MRF set
	Input		Source J	GW	8.30	22.73	DAPWL	Water quality issues
	Input		Source K	GW	9.00	11.37	Licence	Water quality issues
	Input		Source B	GW:Springs	42.90	98.00	Flow condition	Licence varied 2009 MRF set
	Input							
Grouped licences	Derivation	Licence number	Source name	Source type	deployable output (MI/d)	licensed quantity (MI/d)		
0.2BL	Sum (0.2BL+...)	-	Total	-	76.00	-	-	
		Group #:	[Enter name of group]	-	76.00	-	-	
	Input		Sources L-P	GW	48.00	65.04	Licence	River Ems augmentation
	Input		Sources Q-T	GW	28.00	28.38	Pump capacity	Nitrate blending/Bulk supply
-	Input							
Unused licences:	Derivation	Licence number	Source name	Source type	deployable output (MI/d)	licensed quantity (MI/d)	Reason licence is unused	
0.3BL	Sum (0.3BL+...)	-	-	-	0.00	3.02	-	
	Input		Source U	GW	0.00	3.02	Emergency use only	Raw water augmentation R Ems
-	Input							
New licences (within current AMP):	Derivation	Licence number	Source name	Source type	deployable output (MI/d)	licensed quantity (MI/d)	Status of licence	
0.4BL	Sum (0.4BL+...)	-	-	-	0.00	0.00	-	
	Input							
-	Input							

Company:	Portsmouth Water
Resource Zone Name:	Company
Resource Zone Number:	PRT 1
Planning Scenario Name:	Dry Year Annual Average
Chosen Level of Service:	1 in 200

README

Table 2: Baseline supply

Row ref	Component	Derivation	Unit	decimal places	2015-16	For info 2017-18	For info 2018-19	For info 2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-2030	2030-2031	2031-2032	2032-33	2033-34	2034-35	2035-36	2036-37	2037-38	2038-39	2039-40	2040-41	2041-42	2042-43	2043-44	2044-45	
Resources	1BL Raw water abstracted	Input	Ml/d	2																														
	2BL Total raw water imported	sum(2.1BL+2.2BL+2.3BL+...)	Ml/d	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	2.1BL+ Raw water imported from: None	Input	Ml/d	2																														
	-	-	-	2		-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	3BL Total potable water imported	sum(3.1BL+3.2BL+3.3BL+...)	Ml/d	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	3.1BL+ Potable water imported from: None	Input	Ml/d	2																														
	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	5BL Total raw water exported (raw exports and non potable)	sum(5.1BL+5.2BL+...)	Ml/d	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	5.1BL Non potable water supplied to:	Input	Ml/d	2																														
	5.2BL+ Raw water export to: None	Input	Ml/d	2																														
	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6BL Total potable water exported	sum(6.1BL+6.2BL+6.3BL+...)	Ml/d	2	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	6.1BL+ Potable water export to: Sussex North	Input	Ml/d	2	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	
	Potable water export to: Hampshire South	Input	Ml/d	2	0.00	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	
	Potable water export to: Hampshire South	Input	Ml/d	2	0.00	0.00	0.00	0.00	0.00	0.00	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	
	Potable water export to: Hampshire South	Input	Ml/d	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	
	Potable water export to: South East Water	Input	Ml/d	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	-	-	Ml/d	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7BL Deployable Output (baseline profile without reductions)	sum(0.1BL+0.2BL+0.3BL+0.4BL)	Ml/d	2	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	190.70	
Resource (and process) Losses	8BL Baseline forecast changes to Deployable Output	sum(8.1BL+8.2BL+8.3BL)	Ml/d	2	0.00	0.00	0.00	-0.07	-0.11	-0.14	-0.18	-0.21	-0.25	-0.28	-0.32	-0.35	-0.39	-0.43	-0.46	-0.50	-0.53	-0.57	-0.60	-0.64	-0.67	-0.71	-0.74	-0.78	-0.82	-0.85	-0.89	-0.92	-0.96	
	8.1BL Change in DO due to climate change	Input (reductions must be expressed as -ve)	Ml/d	2	0.0	0.00	0.00	-0.07	-0.11	-0.14	-0.18	-0.21	-0.25	-0.28	-0.32	-0.35	-0.39	-0.43	-0.46	-0.50	-0.53	-0.57	-0.60	-0.64	-0.67	-0.71	-0.74	-0.78	-0.82	-0.85	-0.89	-0.92	-0.96	
	8.2BL Reductions to restore sustainable abstraction	sum(8.2BL sub components)	Ml/d	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	8.2BL+ Total for the zone	Input (zero or negative number)	Ml/d	2																														
	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	8.3BL Total other changes to DO (specify, e.g. nitrates): None	Input (reductions must be expressed as -ve)	Ml/d	2																														
	9BL Raw water losses, treatment works losses and operation	Input	Ml/d	2	5.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	
	10BL Outage allowance	Input	Ml/d	2	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	

Company:	Portsmouth Water
Resource Zone Name:	Company
Resource Zone Number:	PRT 1
Planning Scenario Name:	Dry Year Annual Average
Chosen Level of Service:	1 in 200

Table 4: Baseline supply demand balance

Row ref	Component	Derivation	Unit	Decimal places	2015-16	For info 2017-18	For info 2018-19	For info 2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-2030	2030-2031	2031-2032	2032-33	2033-34	2034-35	2035-36	2036-37	2037-38	2038-39	2039-40	2040-41	2041-42	2042-43	2043-44	2044-45
B S	11BL Distribution input	19BL+20BL+21BL+22BL+32BL+33BL+38BL+39BL	Mld	2	170.88	171.25	171.01	170.77	170.54	170.33	170.17	170.05	169.98	169.94	169.94	169.97	170.09	170.28	170.51	170.75	170.95	171.15	171.37	171.60	171.87	172.17	172.47	172.76	173.11	173.47	173.83	174.21	174.61
	12BL Water Available For Use (own sources)	(7BL+8BL)-(9BL+10BL)	Mld	2	170.60	173.60	173.60	173.53	173.49	173.46	173.42	173.39	173.35	173.32	173.28	173.25	173.21	173.18	173.14	173.10	173.07	173.03	173.00	172.96	172.93	172.89	172.86	172.82	172.78	172.75	172.71	172.68	172.64
	13BL Total Water Available For Use	12BL+(2BL+3BL)+(5BL+6BL)	Mld	2	155.60	158.60	143.60	143.53	143.49	143.46	134.42	134.39	134.35	134.32	134.28	134.25	113.21	113.18	113.14	113.10	113.07	113.03	113.00	112.96	112.93	112.89	112.86	112.82	112.78	112.75	112.71	112.68	112.64
	14BL Target headroom (climate change component)	Input	Mld	2	2.78	2.84	2.91	2.96	3.10	3.08	3.15	3.27	3.30	3.25	3.38	3.48	3.58	3.68	3.50	3.65	3.78	3.88	3.90	3.88	4.15	4.23	4.28	4.28	4.28	4.33	4.40	4.40	4.50
	15BL Target headroom (All other components)	Input	Mld	2	8.33	8.52	8.72	8.97	9.31	9.24	9.44	9.80	9.80	9.75	10.13	10.28	10.73	11.03	10.50	10.95	11.33	11.63	11.70	11.83	12.45	12.68	12.83	12.83	12.83	12.96	13.20	13.20	13.50
	16BL Target Headroom	14BL+15BL	Mld	2	11.11	11.36	11.64	11.93	12.41	12.32	12.59	13.07	13.20	13.00	13.51	13.76	14.31	14.71	14.00	14.60	15.11	15.51	15.60	15.51	16.60	16.91	17.11	17.11	17.11	17.31	17.60	17.60	18.00
	17BL Available Headroom	13BL-11BL	Mld	2	-15.28	-12.65	-27.41	-27.24	-27.05	-26.87	-35.75	-35.66	-35.63	-35.62	-35.66	-35.72	-56.88	-57.11	-57.37	-57.65	-57.88	-58.12	-58.37	-58.64	-58.94	-59.28	-59.61	-59.94	-60.33	-60.72	-61.12	-61.53	-61.97
	18BL Supply Demand Balance	17BL-16BL	Mld	2	-26.39	-24.01	-39.05	-39.07	-39.46	-39.19	-48.34	-48.73	-48.83	-48.62	-49.17	-49.48	-71.19	-71.82	-71.37	-72.25	-72.99	-73.63	-73.97	-74.15	-75.54	-76.19	-76.72	-77.05	-77.44	-78.03	-78.72	-79.13	-79.97

Company:	Portsmouth Water
Resource Zone Name:	Company
Resource Zone Number:	PRT 1
Planning Scenario Name:	Dry Year Annual Average
Chosen Level of Service:	1 in 200

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	Year	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432
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Table 6: Preferred list of water management options

[illegible]

Company:	Portsmouth Water
Resource Zone Name:	Company
Resource Zone Number:	PRT 1
Planning Scenario Name:	Dry Year Annual Average
Chosen Level of Service:	1 in 200

Table 7: Final planning water supply

	Row Ref	Component	Derivation	Unit	Decimal places	2015-16	For info 2017-18	For info 2018-19	For info 2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-2030	2030-2031	2031-2032	2032-33	2033-34	2034-35	2035-36	2036-37	2037-38	2038-39	2039-40	2040-41	2041-42	2042-43	2043-44	2044-45	
Resources	1FP	Raw Water Abstracted	1BL	Mld	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	2FP	Raw Water Imported	2BL+ (6. Preferred scenario ref 58.2)	Mld	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	3FP	Potable Water Imported	3BL+ (6. Preferred scenario ref 58.3)	Mld	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Resource (and process) losses	5FP	Raw Water Exported (raw exports and non potable uses)	5BL+ (6. Preferred scenario ref 58.5)	Mld	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	6FP	Potable Water Exported	6BL+ (6. Preferred scenario ref 58.6)	Mld	2	15.00	15.00	30.00	30.00	30.00	30.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	7FP	Deployable Output	7BL+ 8BL+ (6. Preferred scenario ref 58.7) + (6. Preferred scenario ref 58.11)		2	199.20	199.20	199.20	206.93	206.89	206.86	219.32	219.29	219.25	219.22	219.18	219.15	242.11	242.08	242.04	242.00	241.97	241.93	241.90	241.86	241.83	241.79	241.76	241.72	241.68	241.65	241.61	241.58	241.54	
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
9FP	Raw water losses, treatment works losses and operational use	9BL+ (6. Preferred scenario ref 60.1)+(6. Preferred scenario ref 58.4)	Mld	2	5.4	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40		
10FP	Outage allowance	10BL+ (6. Preferred scenario ref 60.2)	Mld	2	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70		

Company:

Resource Zone Name:

Resource Zone Number:

Planning Scenario Name:

Chosen Level of Service:

Portsmouth Water
Company
PRT 1
Dry Year Annual Average
1 in 200

Table 8: Final planning water demand

	Row Ref	Component	Derivation / Impact of preferred options	Unit	Decimal places	2015-16	For info 2017-18	For info 2018-19	For info 2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-2030	2030-2031	2031-2032	2032-33	2033-34	2034-35	2035-36	2036-37	2037-38	2038-39	2039-40	2040-41	2041-42	2042-43	2043-44	2044-45	
Consumption	19FP	Water Delivered Measured Non Household	Calculated BL+Preferred options	Mld	2	26.32	26.10	25.93	25.75	25.56	25.37	25.19	25.01	24.83	24.64	24.46	24.27	24.09	23.90	23.72	23.54	23.35	23.17	22.98	22.80	22.63	22.49	22.35	22.20	22.06	21.92	21.77	21.63	21.49	
	20FP	Water Delivered Unmeasured Non Household	Calculated BL+Preferred options	Mld	2	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	
	21FP	Water Delivered Measured Household	Calculated BL+Preferred options	Mld	2	9.11	13.77	15.99	19.22	20.47	22.72	24.95	27.21	29.52	31.83	34.19	36.58	38.92	40.02	41.50	42.95	44.34	45.68	46.99	48.27	49.54	50.79	52.00	53.16	54.37	55.54	56.71	57.86	59.00	
	22FP	Water Delivered Unmeasured Household	Calculated BL+Preferred options	Mld	2	85.02	80.92	77.84	75.16	72.47	70.21	68.00	65.80	63.61	61.45	59.28	57.11	55.47	54.36	53.29	52.26	51.26	50.31	49.41	48.54	47.71	46.90	46.14	45.42	44.70	44.03	43.37	42.74	42.14	
	23FP	Measured Non Household - Consumption	19FP-34FP	Mld	2	26.04	25.82	25.85	25.47	25.28	25.09	24.92	24.74	24.56	24.37	24.19	24.00	23.82	23.64	23.46	23.28	23.09	22.91	22.72	22.54	22.37	22.24	22.10	21.95	21.81	21.67	21.52	21.38	21.24	
	24FP	Unmeasured Non Household - Consumption	20FP-35FP	Mld	2	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	
	25FP	Measured Household - Consumption	21FP-36FP	Mld	2	7.54	11.89	13.95	16.03	18.13	20.23	22.31	24.42	26.58	28.74	30.94	33.18	34.99	36.39	37.78	39.13	40.43	41.69	42.91	44.11	45.30	46.47	47.60	48.69	49.82	50.92	52.02	53.10	54.17	
	26FP	Unmeasured Household - Consumption	22FP-37FP	Mld	2	78.72	74.99	72.09	69.69	67.10	65.03	63.02	61.02	59.04	57.08	55.12	53.16	51.67	50.63	49.63	48.67	47.74	46.85	46.02	45.21	44.43	43.68	42.97	42.30	41.63	41.01	40.40	39.81	39.26	
	27 -	Percentage of consumption driven by climate change	n/a in FP	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	28 -	Volume of consumption driven by climate change	n/a in FP	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCC and consumption by component	29FP	Measured Household - PCC	(25FP*1,000,000)/(51FP*1,000)	l/h/d	1	42.0	58.0	61.0	65.0	69	72	75	78	81	83	85	87	89	90	91	92	93	94	95	96	97	98	99	100	100	101	102	103	103	
	29.1FP	Measured toilet flushing	Input brief explanation here: Includes Calls for Restraint & Temporary Bans	l/h/d	1	27.5	28.0	27.9	27.9	27.8	27.7	27.7	27.6	27.5	27.4	27.4	27.3	27.2	27.1	27.0	26.9	26.8	26.7	26.6	26.5	26.4	26.3	26.2	26.1	26.0	25.9	25.8	25.7	25.6	
	29.2FP	Measured personal washing	Input brief explanation here: Includes Calls for Restraint & Temporary Bans	l/h/d	1	47.4	49.2	49.2	50.0	50.0	50.0	50.1	50.9	50.9	51.0	51.8	51.8	51.8	52.7	52.7	53.5	53.6	53.6	53.7	54.6	54.7	55.6	55.7	55.7	55.7	55.6	56.7	56.9	57.8	57.8
	29.3FP	Measured clothes washing	Input brief explanation here: Includes Calls for Restraint & Temporary Bans	l/h/d	1	15.2	15.6	15.6	15.7	15.8	15.9	15.9	16.0	16.1	16.1	16.2	16.3	16.3	16.4	16.5	16.5	16.6	16.6	16.7	16.7	16.8	16.8	16.9	16.9	17.0	17.0	17.1	17.2	17.2	
	29.4FP	Measured dish washing	Input brief explanation here: Includes Calls for Restraint & Temporary Bans	l/h/d	1	9.6	9.8	9.8	9.9	9.9	10.0	10.0	10.0	10.1	10.1	10.2	10.2	10.2	10.3	10.3	10.3	10.4	10.4	10.4	10.5	10.5	10.5	10.5	10.6	10.6	10.6	10.6	10.7	10.7	
	29.5FP	Measured miscellaneous internal use	Input brief explanation here: Includes Calls for Restraint & Temporary Bans	l/h/d	1	7.3	7.4	7.4	7.5	7.5	7.5	7.4	7.3	7.5	7.4	7.4	7.4	7.5	7.5	7.5	7.8	7.6	7.6	7.6	7.8	7.6	7.7	7.7	7.7	7.6	7.8	7.7	7.6	7.8	7.7
	29.6FP	Measured external use	Input brief explanation here: Includes Calls for Restraint & Temporary Bans	l/h/d	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	30FP	Unmeasured Household - PCC	(26FP*1,000,000)/(52FP*1,000)	l/h/d	1	150.0	150.0	148.0	147.0	146.0	145.0	145.0	144.0	144.0	144.0	144.0	143.0	143.0	142.0	142.0	142.0	141.0	141.0	140.0	140.0	139.0	139.0	138.0	138.0	137.0	137.0	136.0	136.0		
	30.1FP	Unmeasured toilet flushing	Input brief explanation here: Includes Water Efficiency, Calls for Restraint & Temporary Bans	l/h/d	1	42.9	42.9	42.6	42.3	42.1	41.8	41.5	41.3	41.1	40.8	40.6	40.4	40.1	39.8	39.6	39.3	39.0	38.8	38.5	38.2	38.0	37.7	37.5	37.2	36.9	36.7	36.4	36.2	35.9	
	30.2FP	Unmeasured personal washing	Input brief explanation here: Includes Water Efficiency, Calls for Restraint & Temporary Bans	l/h/d	1	43.4	42.5	42.8	42.2	44.9	44.2	44.4	43.7	43.8	43.3	43.4	42.6	42.8	42.2	42.3	41.7	42.0	42.1	41.5	41.6	41.0	41.3	40.6	40.7	41.2	41.1	40.5	40.8	40.9	
	30.3FP	Unmeasured clothes washing	Input brief explanation here: Includes Water Efficiency, Calls for Restraint & Temporary Bans	l/h/d	1	18.5	18.5	18.5	18.5	18.6	18.6	18.6	18.6	18.6	18.6	18.7	18.7	18.7	18.7	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
	30.4FP	Unmeasured dish washing	Input brief explanation here: Includes Water Efficiency, Calls for Restraint & Temporary Bans	l/h/d	1	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
	30.5FP	Unmeasured miscellaneous internal use	Input brief explanation here: Includes Water Efficiency, Calls for Restraint & Temporary Bans	l/h/d	1	9.4	9.3	9.3	9.2	9.6	9.6	9.7	9.6	9.7	9.4	9.4	9.4	9.4	9.5	9.4	9.4	9.3	9.3	9.4	9.4	9.6	9.4	9.4	9.3	9.5	9.3	9.6	9.5	9.4	9.6
	30.6FP	Unmeasured external use	Input brief explanation here: Includes Water Efficiency, Calls for Restraint & Temporary Bans	l/h/d	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	31FP	Average Household - PCC	((25FP+26FP)*1,000,000)/(51FP+52FP*1,000)	l/h/d	1	122.94	122.2	120.3	119.1	117.9	117.3	116.7	116.2	115.8	115.4	115.0	114.8	114.5	114.4	114.3	114.3	114.2	114.2	114.2	114.2	114.2	114.2	114.3	114.3	114.4	114.5	114.6	114.7	114.9	
	32FP	Water Taken Unbilled	Calculated BL+Preferred options	Mld	1	2.42	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
	33FP	Distribution System Operational Use	Calculated BL+Preferred options	Mld	1	0.41	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Leakage	34FP	Measured Non Household - USPL	Calculated BL+Preferred options	Mld	2	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	
	35FP	Unmeasured Non Household - USPL	Calculated BL+Preferred options	Mld	2	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	
	36FP	Measured Household - USPL	Calculated BL+Preferred options	Mld	2	1.57	1.98	2.08	2.15	2.34	2.49	2.64	2.79	2.94	3.09	3.25	3.40	3.53	3.63	3.72	3.82	3.91	3.99	4.08	4.16	4.24	4.32	4.40	4.47	4.55	4.62	4.69	4.76	4.83	
	37FP	Unmeasured Household - USPL	Calculated BL+Preferred options	Mld	2	6.30	5.94	5.75	5.56	5.37	5.18	4.98	4.78	4.57	4.37	4.16	3.95	3.80	3.73	3.66	3.59	3.52	3.46	3.39	3.33</										

Table 9: Final planning water supply

Row Ref	Component	Derivation	Unit	Decimal places	2015-16	For info 2017-18	For info 2018-19	For info 2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-2030	2030-2031	2031-2032	2032-33	2033-34	2034-35	2035-36	2036-37	2037-38	2038-39	2039-40	2040-41	2041-42	2042-43	2043-44	2044-45
01	11FP Distribution Input	19FP+20FP+21FP+22FP+32FP+33FP+38FP+39FP	Mld	2	150.38	150.75	149.71	149.07	147.44	146.23	145.07	143.95	142.88	142.84	142.87	142.99	143.18	143.41	143.65	143.85	144.05	144.27	144.50	144.77	145.07	145.37	145.66	146.01	146.37	146.73	147.11	147.51	
	12FP Water Available For Use (own sources)	7FP-(9FP+10FP)	Mld	2	179.10	182.10	182.10	189.83	189.79	189.76	202.22	202.19	202.15	202.12	202.08	202.05	225.01	224.98	224.94	224.90	224.87	224.83	224.80	224.76	224.73	224.69	224.66	224.62	224.58	224.55	224.51	224.48	224.44
	13FP Total Water Available For Use	12FP+(2FP+3FP)-(5FP+6FP)	Mld	2	164.10	167.10	163.10	159.83	159.79	159.76	163.22	163.19	163.15	163.12	163.08	163.05	165.01	164.98	164.94	164.90	164.87	164.83	164.80	164.76	164.73	164.69	164.66	164.62	164.58	164.55	164.51	164.48	164.44
	14FP Target headroom (climate change component)	Input	Mld	2	2.78	2.84	2.91	2.98	3.10	3.08	3.15	3.27	3.30	3.25	3.38	3.48	3.58	3.68	3.50	3.65	3.78	3.88	3.90	3.88	4.15	4.23	4.28	4.28	4.33	4.40	4.40	4.50	
	15FP Target headroom (All other components)	Input	Mld	2	8.33	8.32	8.73	8.87	9.31	9.24	9.44	9.80	9.90	9.75	10.13	10.28	10.73	11.03	10.50	10.85	11.33	11.63	11.70	11.63	12.45	12.68	12.83	12.83	12.83	12.98	13.20	13.20	13.50
	16FP Target Headroom	14FP+15FP	Mld	2	11.11	11.36	11.64	11.83	12.41	12.32	12.59	13.07	13.20	13.00	13.51	13.76	14.31	14.71	14.00	14.60	15.11	15.51	15.60	15.51	16.60	16.91	17.11	17.11	17.31	17.31	17.60	17.60	18.00
	17FP Available Headroom	13FP-11FP	Mld	2	13.72	16.35	2.39	10.76	12.35	13.53	18.15	19.24	20.27	20.28	20.24	20.18	22.02	21.80	21.53	21.25	21.02	20.78	20.53	20.26	19.96	19.62	19.29	18.96	18.57	18.18	17.78	17.37	16.93
	18FP Supply Demand Balance	17FP-16FP	Mld	2	2.61	4.99	-9.25	-1.07	-0.06	1.21	5.56	6.17	7.07	7.28	6.73	6.42	7.71	7.08	7.53	6.65	5.91	5.27	4.93	4.75	3.36	2.71	2.18	1.85	1.46	0.87	0.18	-0.23	-1.07

Company:	Portsmouth Water
Resource Zone Name:	Company
Resource Zone Number:	PRT 1
Planning Scenario Name:	Dry Year Annual Average
Chosen Level of Service:	1 in 200

Table 10: Drought plan links and Deployable Output Overview

10.1 Planning scenarios					10.2 Water resources management plan								10.3 Drought plan						10.4 Demand	
Drought Scenarios	Drought Description	Drought Severity	Plan in which scenario is used (highlights overlaps)		WRMP DO of Sources (not including drought measures)	WRMP Additional Yield from Drought Supply Measures (eg drought permits or orders)			WRMP Impact on DI of drought plan Demand Restrictions (eg TUBs)			WRMP DO Levels of Service	Drought Plan Additional Yield from Further Supply Measures (eg drought permits or orders)			Drought Plan Impact on DO of Further Demand Restrictions (eg TUBs)			Unrestricted Demand	Restricted Demand
			WRMP	Drought Plan		Description	Marginal Benefit (Ml/d)	DO (Ml/d)	Description	Marginal Benefit (Ml/d)	DO (Ml/d)		Description	Marginal Benefit (Ml/d)	DO (Ml/d)	Description	Marginal Benefit (Ml/d)	DO (Ml/d)	Ml/d	Ml/d
Dry Year	1 in 1	5.00%	Y	N	227.0	None	0.0	0.0	None	0.0	0.0	0.0	None	0.0	0.0	None	0.0	0.0	171	171
Historic 'A'	1 in 40	2.5%	Y	Y	212.0	None	0.0	0.0	Hosepipe Ban	12.6	0.0	0.0	None	0.0	0.0	Hosepipe Ban	12.6	0.0	171	158
Extended 'B'	1 in 80	1.25%	Y	Y	207.0	None	8.5	8.5	Hosepipe Ban	12.6	0.0	0.0	None	0.0	0.0	Hosepipe Ban	12.6	0.0	171	158
Serious 'C'	1 in 125	0.80%	Y	Y	198.0	Source S DP	8.5	8.5	Non Essential	20.5	0.0	0.0	Slindon DP	8.5	8.5	Non Essential	20.5	0.0	171	151
Severe 'D'	1 in 200	0.50%	Y	Y	191.0	Source S DP	8.5	8.5	Non Essential	20.5	0.0	0	Slindon DP	8.5	8.5	Non Essential	20.5	0.0	171	151
Extreme	1 in 500	0.20%	N	N	180.0	Source S DP	8.5	8.5	Non Essential	20.5	0.0	0.0	Slindon DP	8.5	8.5	Non Essential	20.5	0.0	171	151

Reported DO for WRMP tables highlighted in yellow

10.5 Summary report		
<div><div>WRMP DO Overview</div><div>This set of Tables is for 'Severe Drought' with a return period of 1 in 200.</div></div>		<div><div>Drought Plan Overview</div><div></div></div>
<div><div>Additional Drought Scenarios</div><div></div></div>		<div><div>Drought Supply Measures and Demand Restrictions Further Details</div><div></div></div>
<div><div>Impact on Supply Demand</div><div></div></div>		
<div><div>Demands</div><div></div></div>		