Final Draft Water Resources Management Plan 2024

Annex 15: Investment Modelling Results

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from Southern Water

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Glossary

Acronym	Term
AFW	Affinity Water
BVP	Best Value Plan
DYAA	Dry Year Annual Average
ENVSOC	Environmental and Societal Metrics
HAZ	Hampshire Andover Water Resource Zone
HKZ	Hampshire Kingsclere Water Resource Zone
HRZ	Hampshire Rural Water Resource Zone
HSE	Hampshire Southampton East Water Resource Zone
HSW	Hampshire Southampton West Water Resource Zone
HWZ	Hampshire Winchester Water Resource Zone
IOW	Isle of Wight Water Resource Zone
KME	Kent Medway East Water Resource Zone
KMW	Kent Medway West Water Resource Zone
KTZ	Kent Thanet Water Resource Zone
LCP	Least Cost Plan
NEUB	Non-Essential Use Ban
NYAA	Normal Year Annual Average
PWC	Portsmouth Water
RESIL	Resilience Metrics
SBZ	Sussex Brighton Water Resource Zone
SES	SES Water
SEW	South East Water
SHZ	Sussex Hastings Water Resource Zone
SNZ	Sussex North Water Resource Zone
STPR	Social Time Preference Rate
SWZ	Sussex Worthing Water Resource Zone
TUB	Temporary Use Ban

Acronym	Term
T2ST	Thames to Southern Transfer
WRMP	Water Resources Management Plan
WRP	Water Resources Planning
WRSE	Water Resources South East
WRZ	Water Resource Zone
WSR	Water Service Reservoir
WSW	Water Supply Works

1 Introduction

This annex presents the options selected under each of the following Southern Water plans through investment modelling.

- Best Value Plan including the option to import water from Norway via sea tankers
- Best Value Plan excluding the option to import water from Norway via sea tankers
- Least Cost Plan including the option to import water from Norway via sea tankers
- Least Cost Plan excluding the option to import water from Norway via sea tankers
- Bes Value Plan optimised on environmental and societal metrics (ENVSOC) including the option to import water from Norway via sea tankers
- Bes Value Plan optimised on resilience metrics (RESIL) including the option to import water from Norway via sea tankers

Our preferred Water Resources Management Plan 2024 (WRMP24) does not include the option to import water from Norway via sea tankers. This option was excluded following public consultation on our revised draft Water Resources Management Plan 2024 (rdWRMP24). Its removal means that the River Test drought option in our Western area will be required at its full volume in the event of a drought between 2003-31 and 2034.

However, the rdWRMP24 including the option to import from Norway via sea tankers was used by Portsmouth Water for its WRMP24 that was approved for publication by the Secretary of State for Defra. The option to import water from Norway via sea tankers was also included in all of the sensitivity runs as well as the ENVSOC and RESIL plans. We have therefore used that version to produce Water Resources Planning (WRP) tables but have also included the results of Best Value and Least Cost plans without the option to import water from Norway via sea tankers for completeness.

For each plan, the options selected along with their earliest year of selection and maximum utilisation in all of the 9 supply-demand balance situations and under all planning scenarios is given (Section 2 to Section 7). For the two versions of Best Value plans, the utilisation profiles of each supply-side option, excluding interzonal transfers, are also included.

The costs and outputs of best value metrics are given Section 8.

2 Best Value Plan (including import of water via sea tankers)

2.1 Western area

2.1.1 Option selection and utilisation under NYAA scenario

Table 1: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2041	2069	0	2041	2064	0	2042	0	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HAZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HKZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HKZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HRZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HRZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSE): Candover (22Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSE): Lower Itchen	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	0	0	0	2073	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2036	2036	2036	2036	2036	2036	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	2040	0	0	2040	0	0	2040	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2050	0	0	2074	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2040	2040	2053	2041	2040	2057	2041	2045	0
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	0	0	0	0	0	0	2040	0	0
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 2: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	1.6	0.0	45.0	2.3	0.0	45.0	0.0	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	14.3	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	54.3	46.8	28.1	60.0	47.3	27.8	60.0	32.5	27.8
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	1.0	1.0	11.7	1.0	1.1	14.4	1.0	12.8	10.4
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	95.0	18.0	18.0	94.8	18.0	18.0	94.9	18.0	14.3
Demand management (HAZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HKZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HRZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HRZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSE): Candover (22Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSE): Lower Itchen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSW): River Test (80Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	6.8	0.0	0.0	2.1	0.0	0.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	62.2	8.3	10.8	58.6	8.7	11.9	54.5	3.9	0.0
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.1	4.4	4.4	4.5	4.5	4.5	5.0	4.5	4.5
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.5
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	8.7	11.0	8.7	8.7	11.0	8.7	8.5	10.8	8.5
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.9	4.6	4.6	7.4	4.7	4.7	7.3	4.7	4.7
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	26.6	7.3	7.7	24.2	6.9	6.2	28.8	11.2	2.3
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour WTW (60Ml/d)	60.0	60.0	28.1	60.0	60.0	27.8	60.0	38.5	27.8
Recycling (IOW): Sandown (8.5Ml/d)	8.5	6.8	1.6	8.5	6.3	1.6	8.5	1.6	1.6

2.1.2 Option selection and utilisation under 1:100 DYAA scenario

Table 3: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2040	2044	0	2040	2043	0	2042	2069	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	2037	2037	2037	2037	2037	2037	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	0	0	0	2073	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2036	2036	2036	2036	2036	2036	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2050	0	0	2074	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 4: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	14.2	0.0	45.0	14.9	0.0	45.0	4.2	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	13.7	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	95.0	49.5	18.0	89.7	49.8	18.0	83.2	32.8	18.0
Demand management (HAZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HKZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HRZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSE): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (HSW): NEUBs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HWZ): NEUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (IOW): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - supply side (HSE): Candover (22Ml/d)	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
Drought option - supply side (HSE): Lower Itchen	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	6.7	0.0	0.0	2.0	0.0	0.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	24.4	22.3	22.3	21.5	21.5	21.5	26.6	26.6	26.6
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.8	4.8	4.8	7.2	4.8	4.8	7.1	4.9	4.9
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	60.0	39.7	33.9	57.0	40.5	33.6	54.5	37.7	37.6
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour WTW (60Ml/d)	60.0	52.3	23.9	60.0	51.3	20.0	53.9	40.0	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.4

2.1.3 Option selection and utilisation under 1:500 DYAA scenario

Table 5: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2040	2040	0	2040	2040	0	2042	2063	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	0	0	0	2073	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2042	2042	2042	2042	2042	2042	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2050	0	0	2074	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2042	2042	2042	2042	2042	2042	2042	2042	2042
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2035	2035	2035	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 6: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	18.9	0.0	45.0	21.9	0.0	45.0	17.4	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	6.9	0.0	0.0	5.0	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	8.2	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	90.0	90.0	74.5	90.0	90.0	74.8	90.0	90.0	57.3
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	74.1	27.7	18.0	64.1	30.3	18.0	57.5	19.5	18.0
Demand management (HAZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HKZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HRZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSE): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (HSW): NEUBs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HWZ): NEUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (IOW): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - supply side (HSE): Candover (22Ml/d)	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
Drought option - supply side (HSE): Lower Itchen	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	6.7	0.0	0.0	2.0	0.0	0.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	21.8	21.8	21.8	21.8	21.8	21.8	21.8	24.8	21.8
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.6	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	15.4	12.4	9.4	15.5	12.4	9.4	15.2	12.1	9.1
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.8	4.2	3.4	7.2	4.2	3.4	7.1	4.1	3.3
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	58.0	30.1	33.9	47.4	29.6	33.4	37.4	41.0	37.9
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour WTW (60Ml/d)	60.0	60.0	32.6	60.0	60.0	21.5	60.0	49.5	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.5	1.6	8.5	8.5	1.6	8.5	8.5	1.6

2.1.4 Option selection and utilisation under 1:500 DYCP scenario

Table 7: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	2040	0	0	2040	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	0	0	0	2073	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2042	2042	2042	2042	2042	2042	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2050	0	0	2074	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2042	2042	2042	2042	2042	2042	2042	2042	2042
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2040	2042	2042	2040	2042	2042	2040	2042	2042
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 8: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	7.8	0.0	0.0	4.6	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	11.5	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	69.0	61.1	58.6	69.0	61.9	59.4	69.0	52.5	46.0
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	56.8	16.6	18.0	47.5	15.7	18.0	43.8	18.0	18.0
Demand management (HAZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (HKZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): NEUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - demand side (HRZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): NEUBs	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
Drought option - demand side (HSW): NEUBs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Drought option - demand side (HWZ): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (IOW): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Drought option - supply side (HSE): Candover (22Ml/d)	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
Drought option - supply side (HSE): Lower Itchen	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	5.8	0.0	0.0	1.2	0.0	0.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	16.9	16.9	16.9	16.9	16.9	16.9	20.0	16.9	16.9
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.4	5.0	5.0	4.9	5.0	5.0	4.9	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	18.0	4.4	4.4	18.0	4.4	4.4	18.0	4.4	4.4
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	10.6	3.2	5.5	9.9	2.1	4.4	9.8	1.3	7.3
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	45.0	27.5	27.5	39.8	27.0	27.0	43.5	30.7	30.6
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour WTW (60Ml/d)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	1.6	1.6	8.5	1.6	1.6	8.5	1.6	1.6

2.2 Central area

2.2.1 Option selection and utilisation under NYAA scenario

Table 9: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2046	2071	2041	2052	0	2041	2065	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2040	2040	2041	2040	2041	2051	2040	2041	2070
Bulk import (SNZ): SES re-zoning (4Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2054	0	2040	2040	2041	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2041	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2051	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SBZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): TUBs	0	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2040	2041	2051	2040	2041	2064	2040	2041	0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2041	0	0	2041	0	0	2041	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2040	0	2040	2040	0	2040	2040	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2041	0	0	2041	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	2063	0	0	2073	0	0	2058	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2046	0	0	2046	0	0	2049	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2046	0	0	2041	0	0	2048	0	0

Table 10: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	22.0	16.3	3.2	26.3	15.4	0.0	37.9	6.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	2.2
Bulk import (SNZ): SES re-zoning (4Ml/d)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	16.7	0.0	0.0	10.9	0.0	0.0	4.6	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	23.7	26.7	0.0	29.7	25.9	0.0	34.9	18.3	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	13.0	10.9	13.0	13.0	12.5	13.0	13.0	12.5
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	17.0	12.5	17.0	17.0	11.9	17.0	17.0	11.9
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	12.8	15.0	15.0	12.1	15.0	15.0	11.2
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	7.2	15.0	15.0	3.0
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

2.2.2 Option selection and utilisation under 1:100 DYAA scenario

Table 11: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Southern Water Best Value Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2040	2069	2041	2042	0	2041	2046	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2034	2034	2034	2034	2034	2034	2034	2034	2034
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2054	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2041	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2051	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2051	0	0	0	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2041	0	2040	2041	0	2040	2041	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2062	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	2063	0	0	2073	0	0	2058	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2046	0	0	2046	0	0	2049	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2046	0	0	2041	0	0	2048	0	0

Table 12: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	38.4	32.3	3.9	29.2	31.3	0.0	33.9	20.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drought option - demand side (SNZ): NEUBs	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Drought option - demand side (SWZ): NEUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	28.6	16.2	0.0	21.8	15.2	0.0	22.2	7.5	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	12.6	5.0	13.0	12.8	5.7	13.0	10.4	3.2
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	16.0	6.4	17.0	15.9	6.4	17.0	9.9	6.4
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	10.0	15.0	15.0	9.8	15.0	15.0	9.8
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	13.7	15.0	15.0	10.7
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

2.2.3 Option selection and utilisation under 1:500 DYAA scenario

Table 13: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	2040	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2041	2042	2041	2042	2069	2041	2042	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2034	2034	2034	2034	2034	2034	2034	2034	2034
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2054	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2041	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2051	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2041	0	0	2074	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2040	0	2040	2040	0	2040	2041	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2051	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	2063	0	0	2073	0	0	2058	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2046	0	0	2046	0	0	2049	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2046	0	0	2041	0	0	2048	0	0

Table 14: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	40.0	40.0	12.6	40.0	40.0	1.5	40.0	20.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drought option - demand side (SNZ): NEUBs	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Drought option - demand side (SWZ): NEUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	6.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	29.2	18.5	0.0	24.0	17.5	0.0	24.6	9.7	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	13.0	6.8	13.0	13.0	6.8	13.0	12.0	7.3
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	17.0	7.3	17.0	17.0	7.3	17.0	12.5	6.0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	11.3	15.0	15.0	11.0	15.0	15.0	11.0
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	12.3
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

2.2.4 Option selection and utilisation under 1:500 DYCP scenario

Table 15: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2043	0	0	0	0	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2041	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2051	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2036	2036	2036	2036	2036	2036	2036	2036	2036
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2040	2040	2040	2040	2040	0	0	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2051	2042	2042	2074	2042	2070	0	0	0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2042	0	0	2042	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	0	0	0	0	0	0	0	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2066	0	0	0	0	0	0	0	0
Supply-demand balance	2026	2026	2026	2026	2026	2026	2026	2026	2026
Total demand	2026	2026	2026	2026	2026	2026	2026	2026	2026
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0	0	0	0	0	0	0	0	0

Table 16: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	2.6	3.1	0.7
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	7.7	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	4.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Drought option - demand side (SNZ): NEUBs	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Drought option - demand side (SWZ): NEUBs	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	8.9	2.4	2.3	1.2	1.5	0.0	0.0	0.0	0.0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	0.2	4.0	2.4	0.0	0.0	0.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	6.5	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	9.6	9.8	15.0	10.5	10.8	12.1	11.4	10.8
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	3.0	7.5	7.3	3.0	6.4	3.0	3.0	3.0	3.0
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Supply-demand balance	15.8	17.7	18.6	20.2	17.8	18.7	23.3	23.6	23.6
Total demand	120.4	110.5	110.5	110.4	110.4	110.4	102.9	102.9	101.2
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

2.3 Eastern area

2.3.1 Option selection and utilisation under NYAA scenario

Table 17: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2058	0	0	2058	0	0	2057	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SHZ): Rye to SEW RZ8	2058	0	0	2051	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	2050	2050	2051	2051	2050	2051	2050	2050	2065
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (SHZ): SEW RZ8 to Rye	0	0	0	2050	2060	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KME): Isle of Sheppey (20Ml/d)	2046	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2041	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	0	2070	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KME): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KME): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	2040	2040	0	2040	2040	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2057	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	2036	2036	2036	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 18: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	9.4	0.0	0.0	5.4	0.0	0.0	5.8	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	12.1	20.0	20.0	17.9	20.0	20.0	20.0	20.0	8.5
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk export (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	7.0	3.0	5.2	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	5.1	0.0	8.2	4.8	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	18.0	16.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	6.0	0.0	0.0	9.5	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	4.0	18.2	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	3.5	15.8	6.6	3.5	15.8	3.9	13.7	14.0	3.5
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	42.5	44.7	26.2	42.9	41.8	23.2	44.7	40.1	22.1
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	6.6	6.6	6.6	7.2	6.6	6.6	8.8	6.6	6.6
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	13.2	14.0	14.0	12.7	14.0	14.0	10.7
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.9	3.3	0.0	2.5	2.8	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.3	0.0	0.0	15.3	0.0	0.0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	5.7	3.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

2.3.2 Option selection and utilisation under 1:100 DYAA scenario

Table 19: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	0	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2045	0	0	2045	0	0	2050	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2050	0	0	0	0	0	0	0	0
Bulk export (SHZ): Rye to SEW RZ8	2058	0	0	2051	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	2050	2051	2051	2050	2051	2050	2050	0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (SHZ): SEW RZ8 to Rye	0	0	0	0	0	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2046	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2041	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	0	2070	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	0	0	0	0	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2036	2036	2036	2040	2040	2041	2040	2041	2042
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2057	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	2041	2041	2046	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 20: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	20.0	14.0	5.6	20.0	20.0	13.9	15.9	0.0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk export (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	2.0	0.0	8.3	2.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	12.0	0.0	20.0	14.7	0.0	14.4	11.6	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	2.2	0.0	0.0	2.3	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	19.5	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	4.0	15.2	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (KMW): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (KTZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	1.4	9.3	7.9	1.4	8.8	11.4	3.7	4.5	1.4
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	44.7	44.7	23.3	40.5	42.0	20.2	44.7	37.4	23.7
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	6.6	14.0	14.0	6.5	14.0	14.0	3.8
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	1.5
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	12.9
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.1	0.0	0.0	13.6	0.0	0.0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	5.5	3.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

2.3.3 Option selection and utilisation under 1:500 DYAA scenario

Table 21: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2045	0	0	2045	0	0	2050	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2050	0	0	2051	0	0	2052	0	0
Bulk export (SHZ): Rye to SEW RZ8	2058	0	0	2050	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	2050	2051	0	2050	2051	2066	2050	2065
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (SHZ): SEW RZ8 to Rye	0	0	0	0	0	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	2058	2058	2058	2058	2058	2058	2058	2058	2058
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2046	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2041	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	0	2070	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	2050	2040	0	2040	2040	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2057	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	2040	2040	2042	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	2068	0	0	2061	0	0	0	0	0

Table 22: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	7.4	6.8	6.8	7.4	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	2.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	20.0	0.0	0.0	6.1	0.0	0.0	1.8	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	20.0	9.9	0.0	20.0	20.0	7.7	9.0	4.5
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk export (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	2.0	0.0	10.0	10.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	16.1	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	10.0	0.0	0.0	9.4	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	12.1	20.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (KMW): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (KTZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	0.0	11.2	2.5	0.0	10.7	9.9	11.2	8.1	1.0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	44.7	44.7	30.5	42.9	40.0	24.3	44.7	37.3	22.6
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	7.3	7.3	7.3	15.7	7.3	7.3	7.3	7.3	7.3
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	10.1	14.0	14.0	9.6	14.0	14.0	5.8
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	1.6	2.9	0.0	1.0	2.4	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	3.8
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.3	0.0	0.0	15.3	0.0	0.0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	5.7	5.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0

2.3.4 Option selection and utilisation under 1:500 DYCP scenario

Table 23: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	0	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2067	0	0	2070	0	0	0	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2071	2050	2051	0	2050	2051	0	2050	2065
Bulk export (SHZ): Rye to SEW RZ8	0	0	0	0	2060	0	0	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (SHZ): SEW RZ8 to Rye	0	0	0	0	0	0	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2046	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2041	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	0	2070	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	0	0	2051	0	0	2053	0	0	0
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	0	0	2054	0	0	2056	0	0	0
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2058	2050	2048	2072	2050	0	0	2059	0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	0	0	0	0	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	0	0	0	0	0	0	0	0	0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	0	0	0	0	0	0	0	0	0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	0	0	0	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 24: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (Best Value Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	1.4	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	4.0	20.0	13.9	0.0	20.0	14.3	0.0	20.0	16.0
Bulk export (SHZ): Rye to SEW RZ8	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Bulk export (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2.0	2.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	4.0	4.0	0.0	4.0	4.0	0.0	4.0	4.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	4.0	4.0	0.0	4.0	4.0	0.0	4.0	4.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	4.0	4.0	0.0	4.0	4.0	0.0	4.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	4.0	0.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (KMW): NEUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (KTZ): NEUBs	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Drought option - demand side (SHZ): NEUBs	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	0.0	0.0	2.7	0.0	0.0	2.7	0.0	0.0	0.0
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0	0.0
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	7.3	8.8	0.3	1.5	6.7	0.0	0.0	1.3	0.0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	8.8	20.9	17.4	5.7	12.2	14.7	5.7	5.7	8.5
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	12.3	7.0	7.3	9.9	16.8	7.3	7.9	6.3	6.3
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	1.5	14.0	14.0	1.5	14.0	13.7	1.5	14.0	8.6
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Recycling (KMW): Medway to lake (14Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

2.4 Option utilisation profiles (Best Value Plan including import of water via sea tankers)

2.4.1 Western area

Utilisation of supply-side options in the Western area is shown in Figure 1 to Figure 23, excluding interzonal transfers.

Figure 1: Utilisation of bulk export from Itchen WSW HSE to Portsmouth Water Source A in each supply-demand situation under each planning scenario.

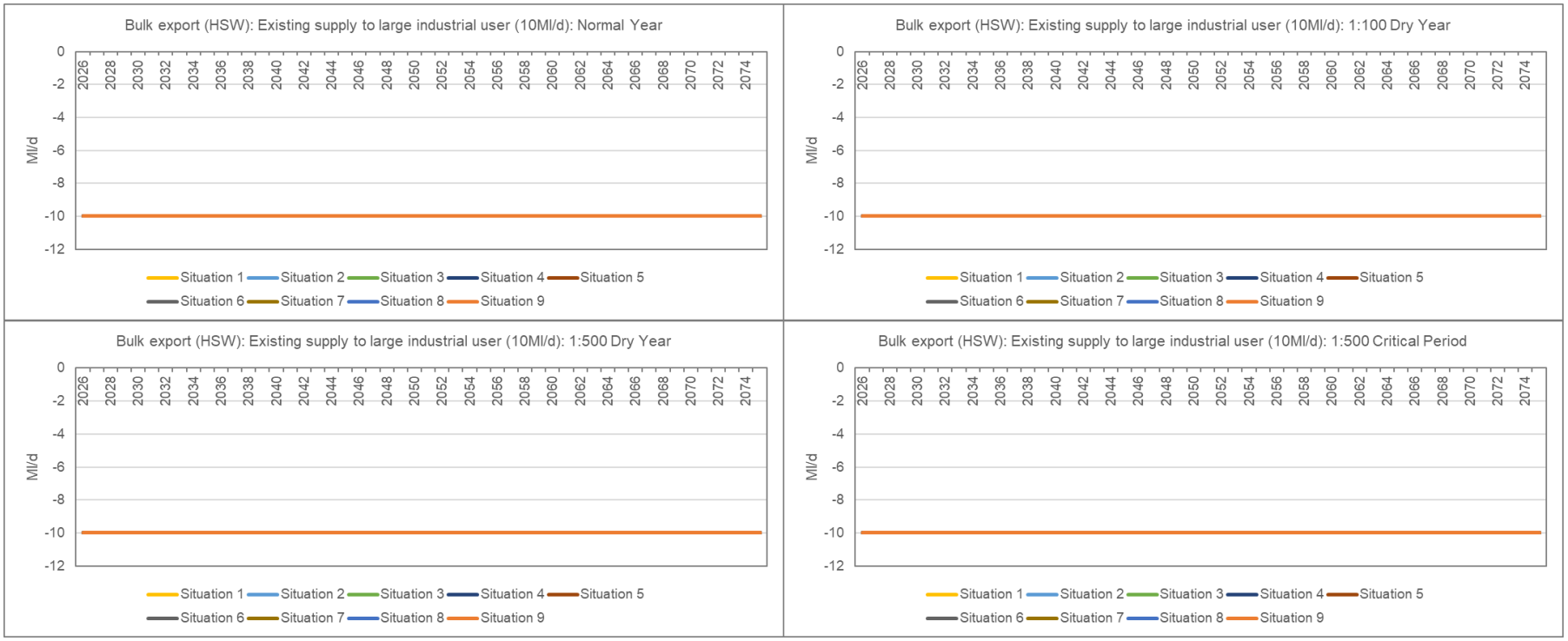

Figure 2: Utilisation of existing bulk supply to an existing industrial user in HSW in each supply-demand situation under each planning scenario.

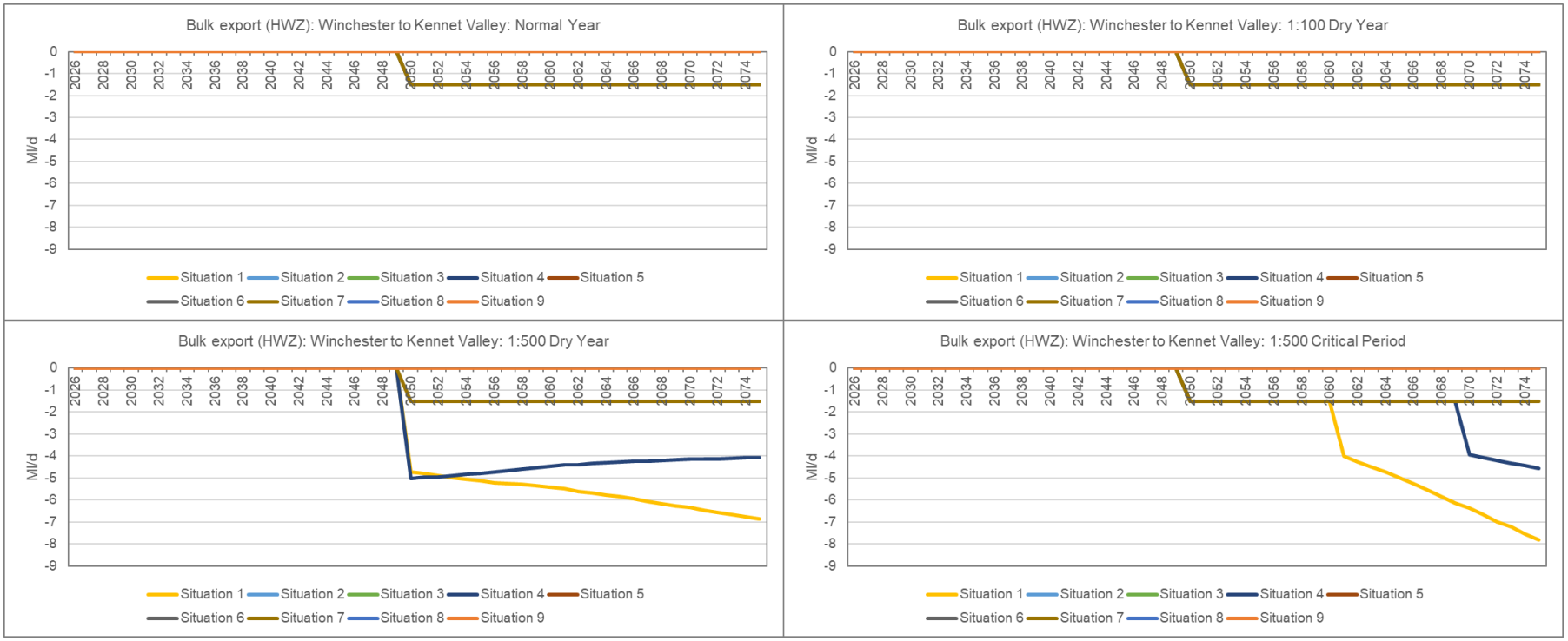

Figure 3: Utilisation of bulk export from HWZ to Kennet Valley in each supply-demand situation under each planning scenario.

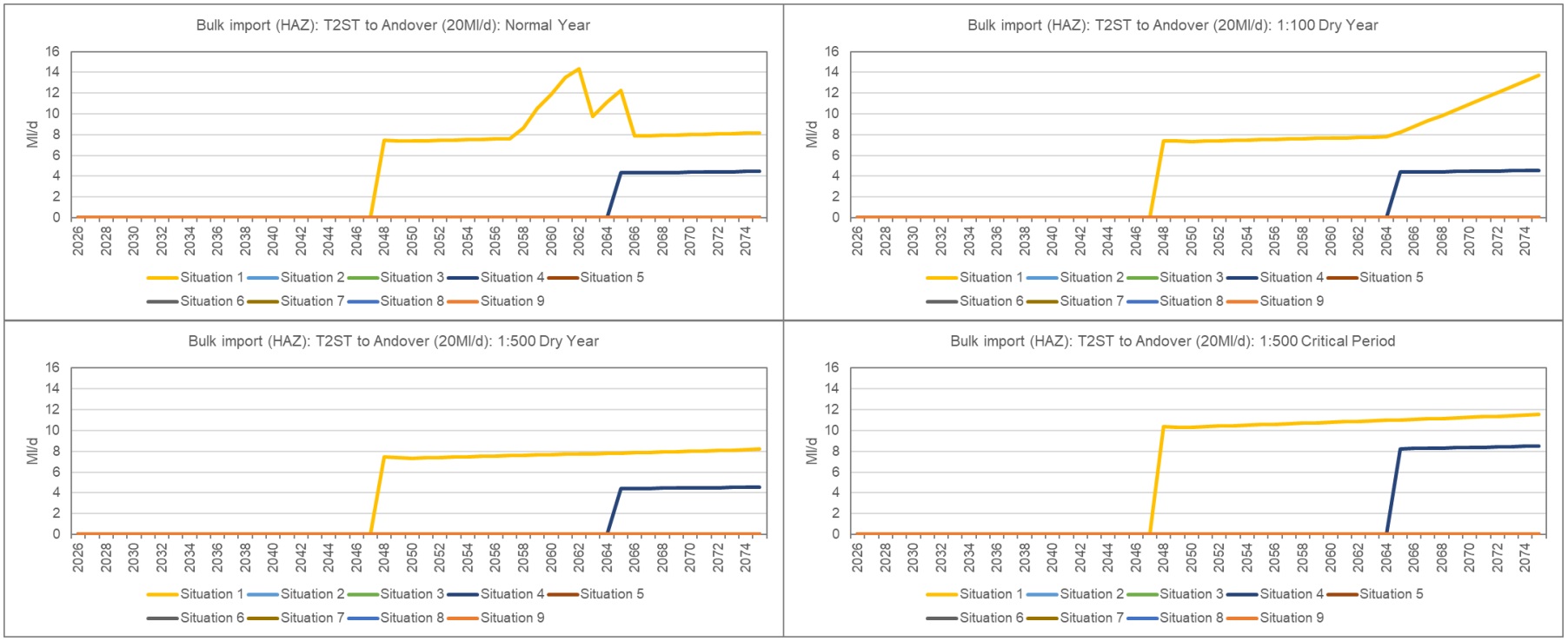

Figure 4: Utilisation of bulk import to HAZ via T2ST in each supply-demand situation under each planning scenario.

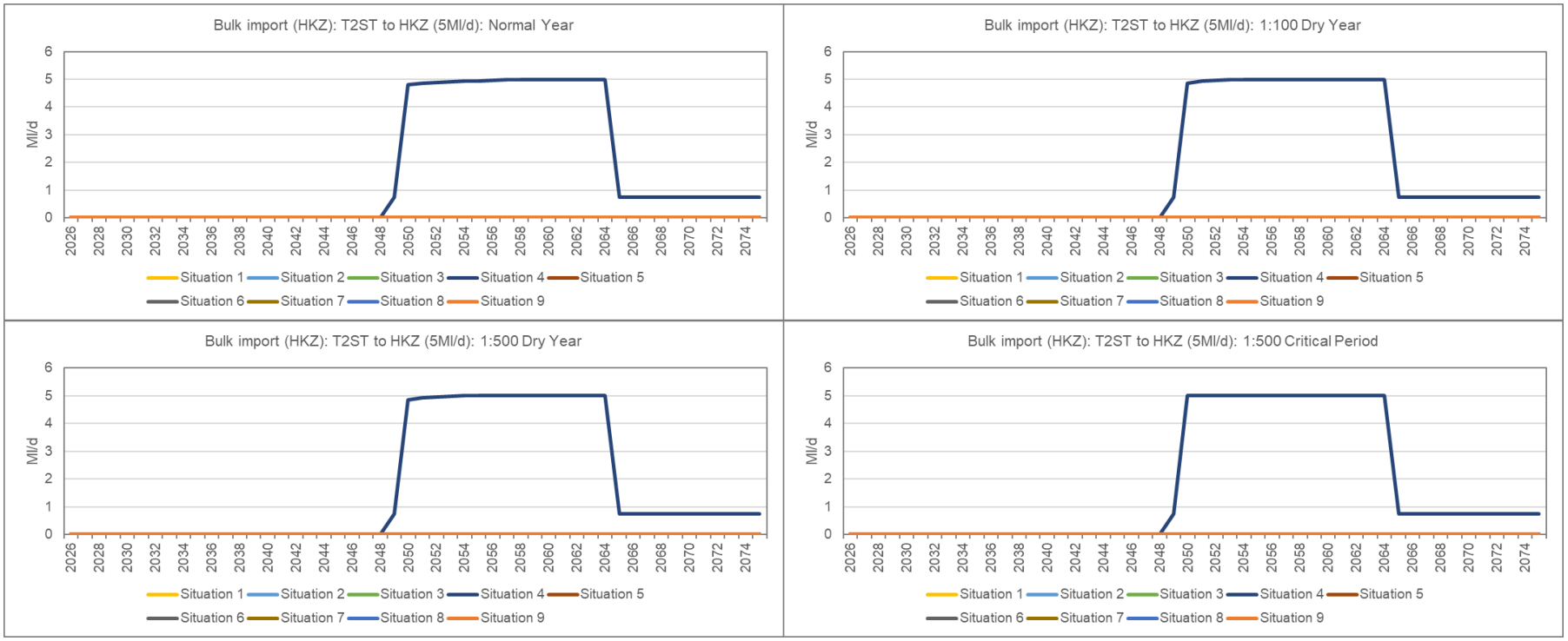

Figure 5: Utilisation of bulk import to HKZ from Havant Thicket Reservoir in each supply-demand situation under each planning scenario.

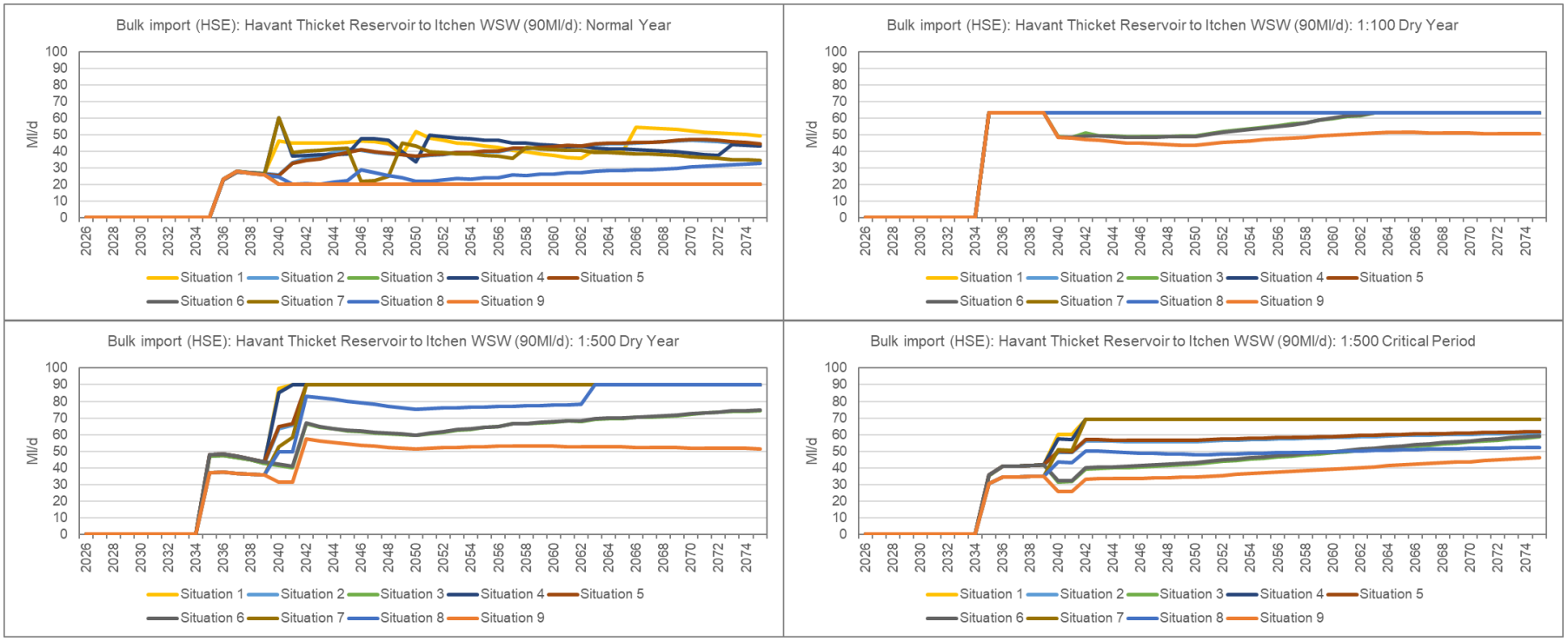

Figure 6: Utilisation of bulk import to HSE from Havant Thicket Reservoir in each supply-demand situation under each planning scenario.

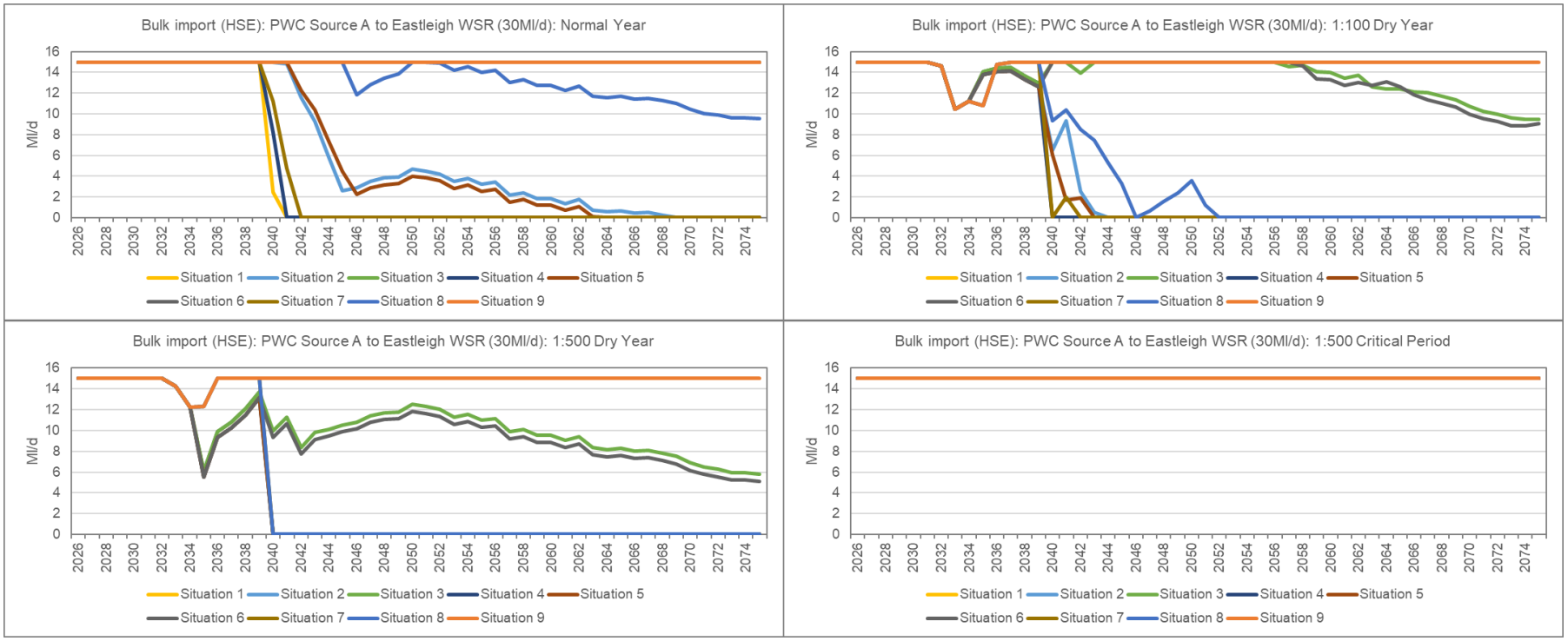

Figure 7: Utilisation of bulk import to Eastleigh WSR in HSE from Portsmouth Water Source A in each supply-demand situation under each planning scenario.

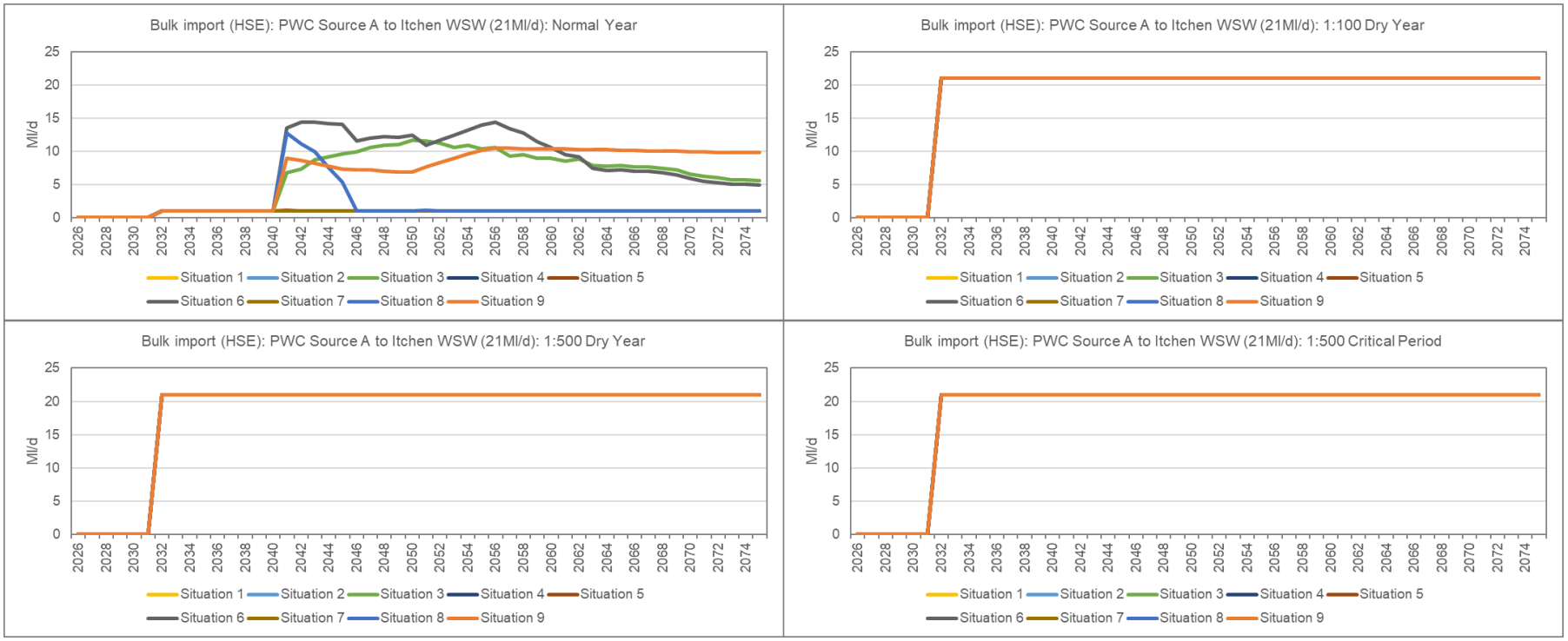

Figure 8: Utilisation of bulk import to Itchen WSW in HSE from Portsmouth Water Source A in each supply-demand situation under each planning scenario.

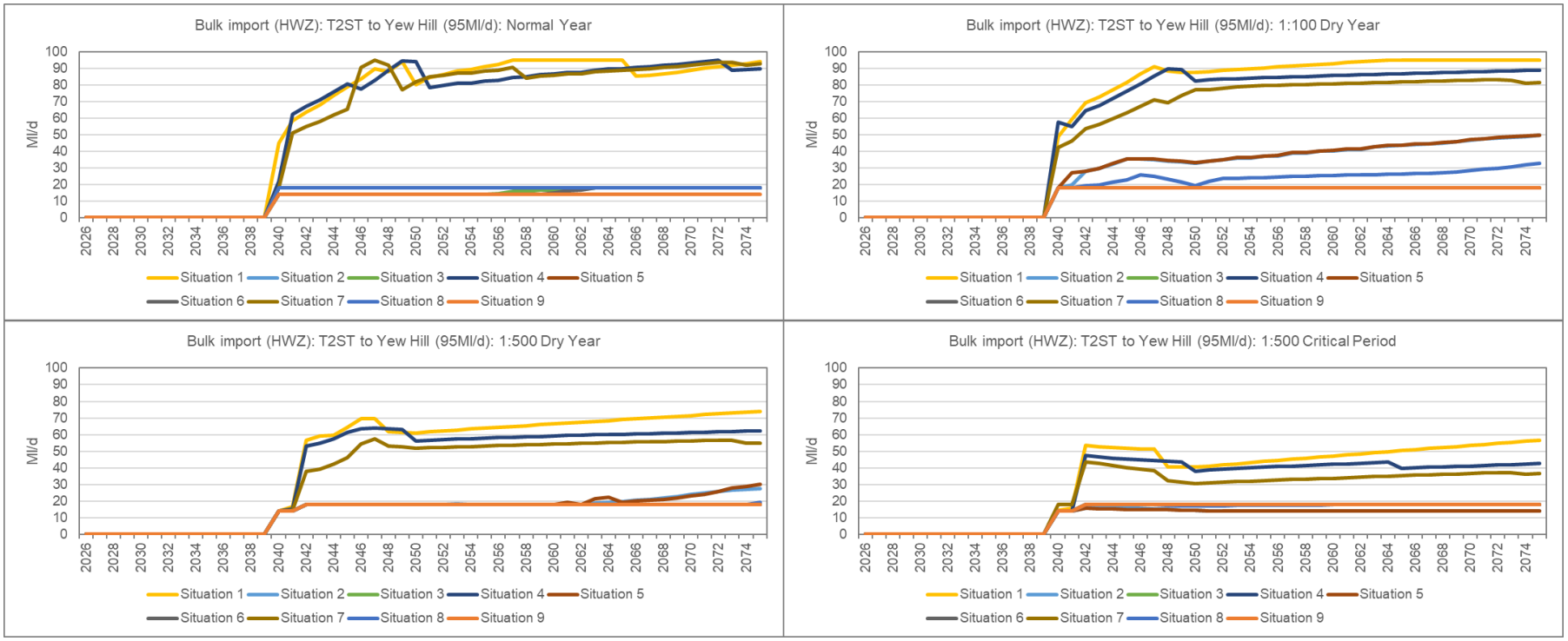

Figure 9: Utilisation of bulk import to HWZ via T2ST in each supply-demand situation under each planning scenario.

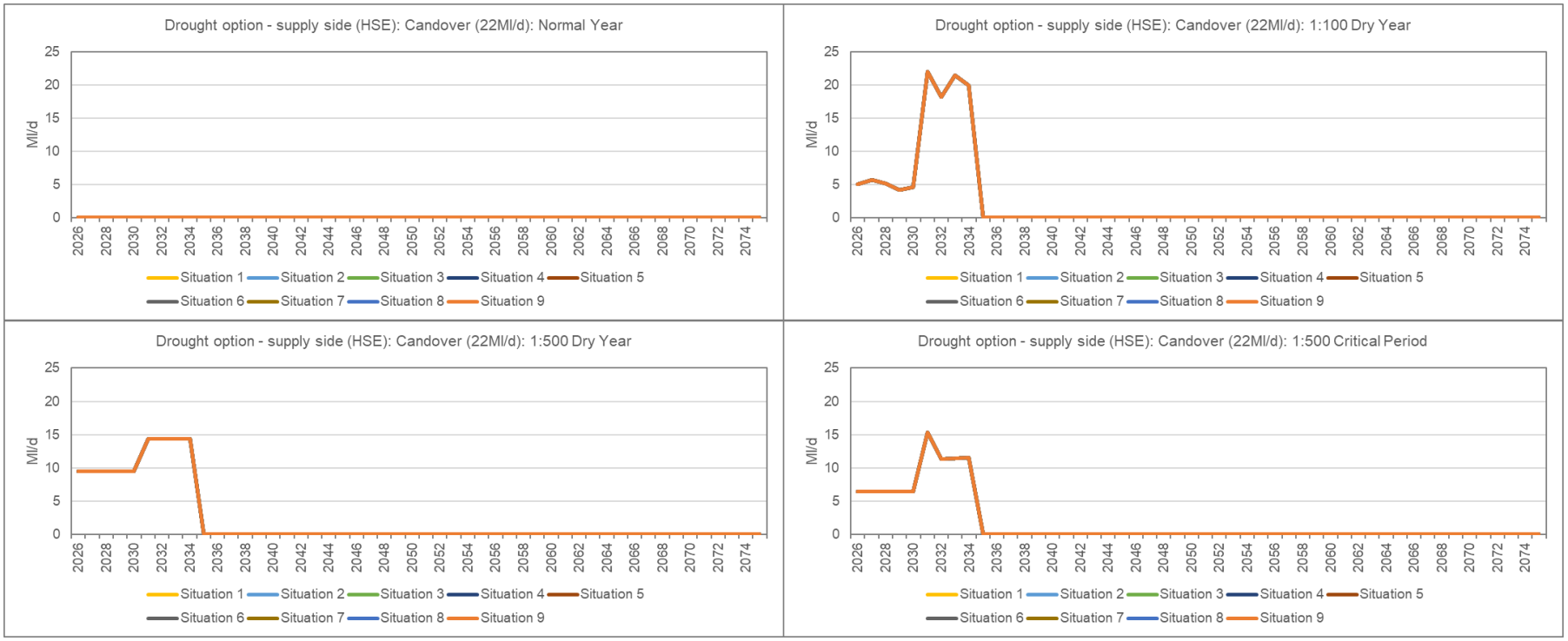

Figure 10: Utilisation of Candover drought option in HSE in each supply-demand situation under each planning scenario.

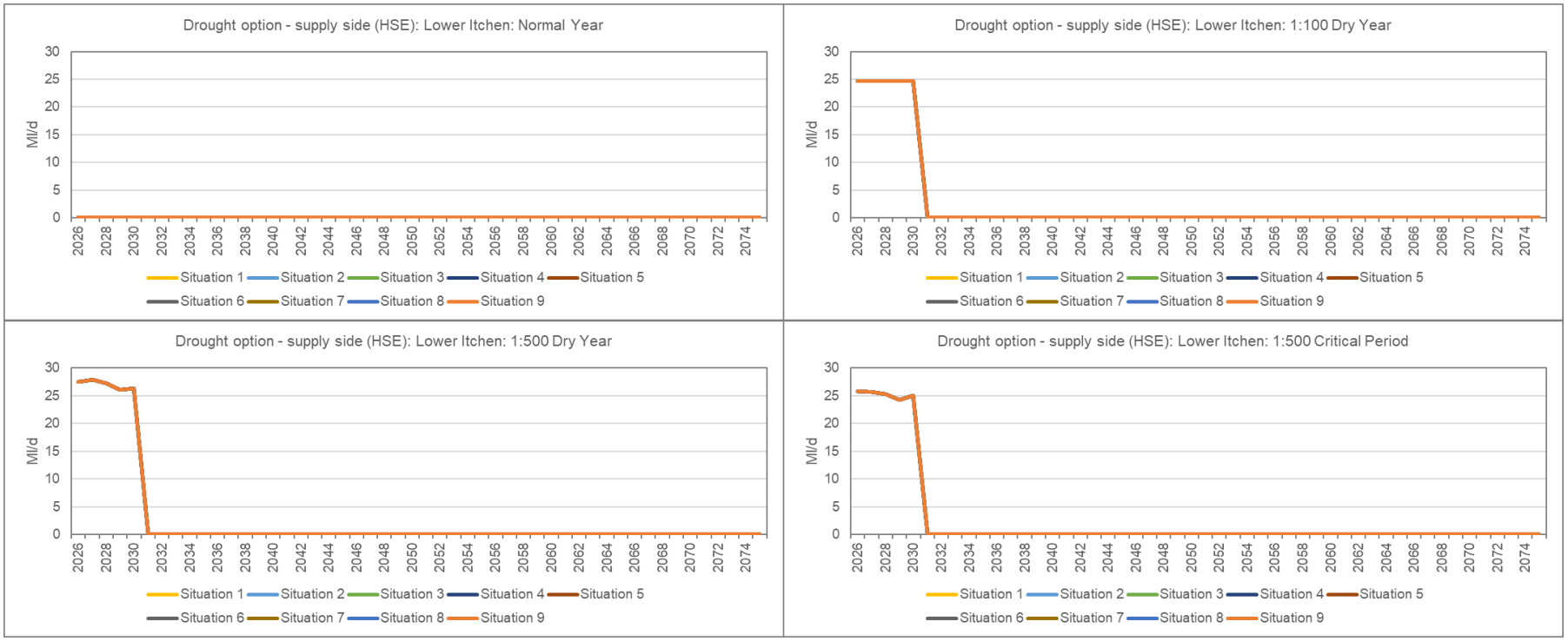

Figure 11: Utilisation of Lower Itchen drought option in HSE in each supply-demand situation under each planning scenario.

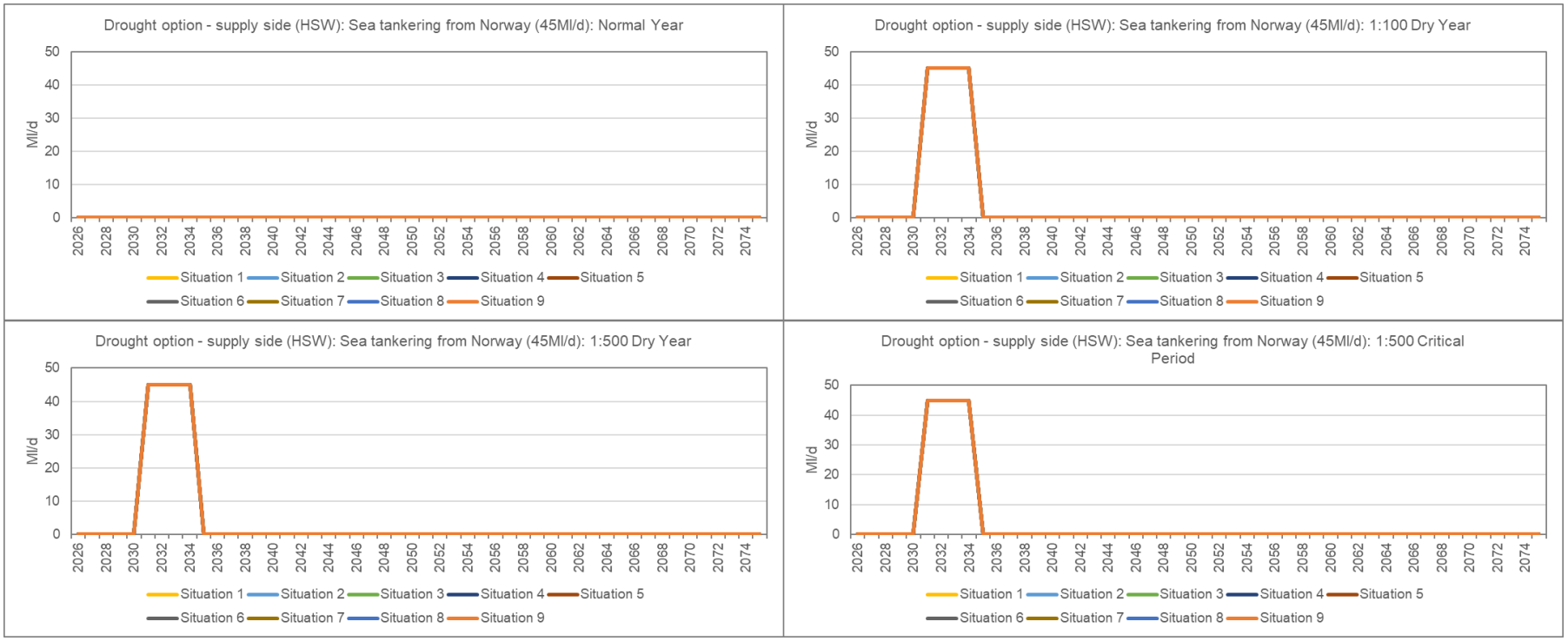

Figure 12: Utilisation of the option to import water from Norway via sea tankering in HSW in each supply-demand situation under each planning scenario.

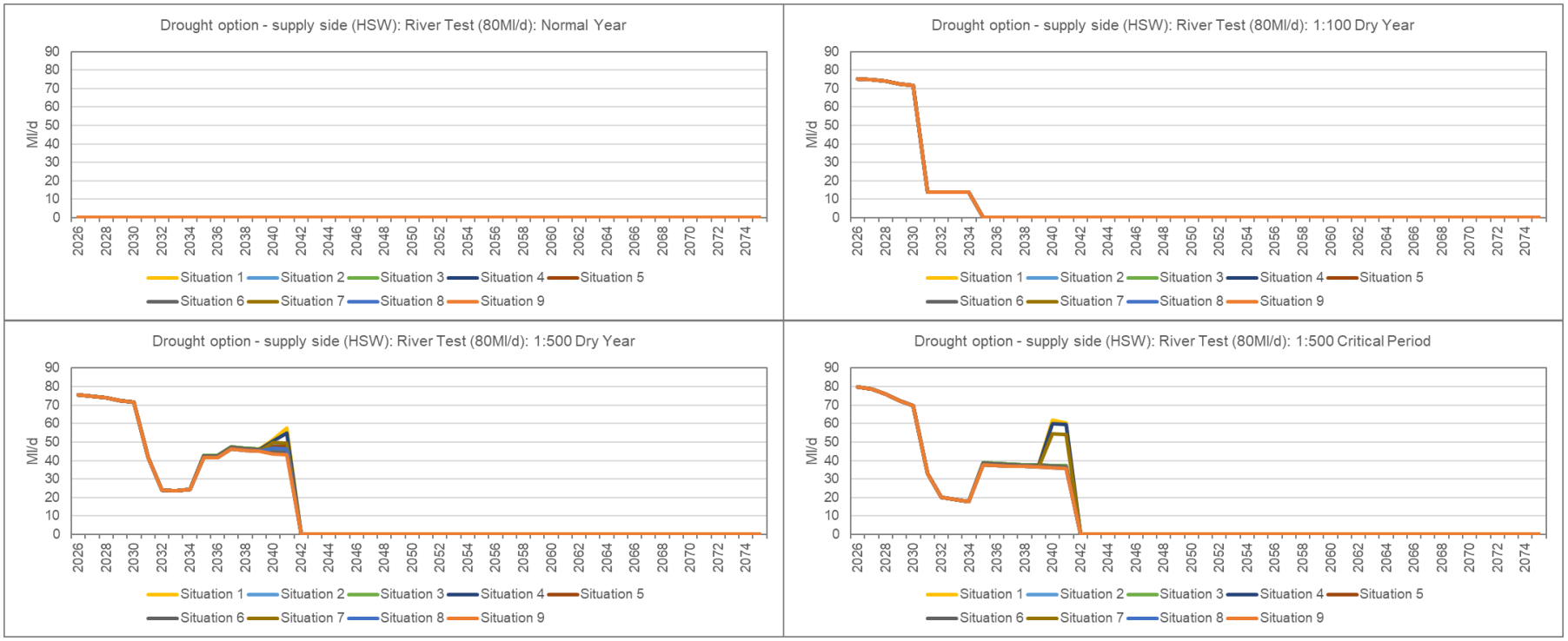

Figure 13: Utilisation of River Test drought option in HSW in each supply-demand situation under each planning scenario.

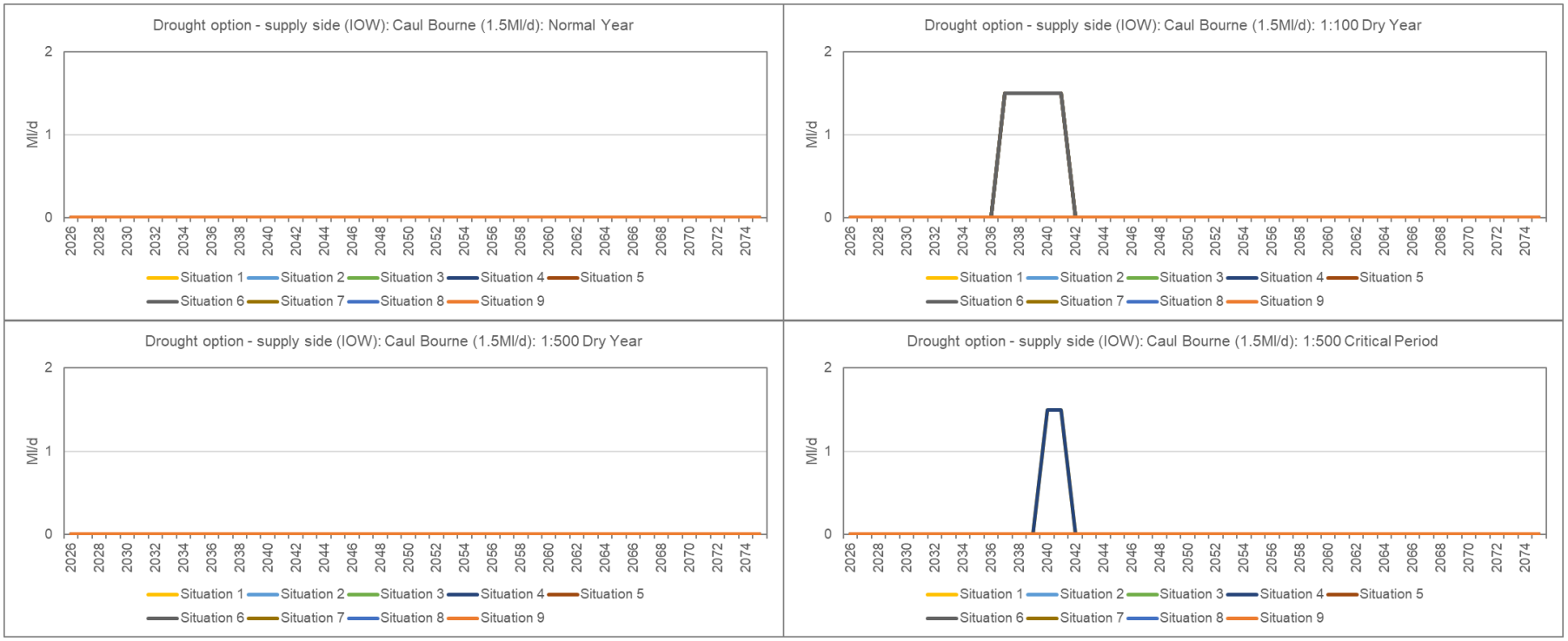

Figure 14: Utilisation of Caul Bourne drought option on the IOW in each supply-demand situation under each planning scenario.

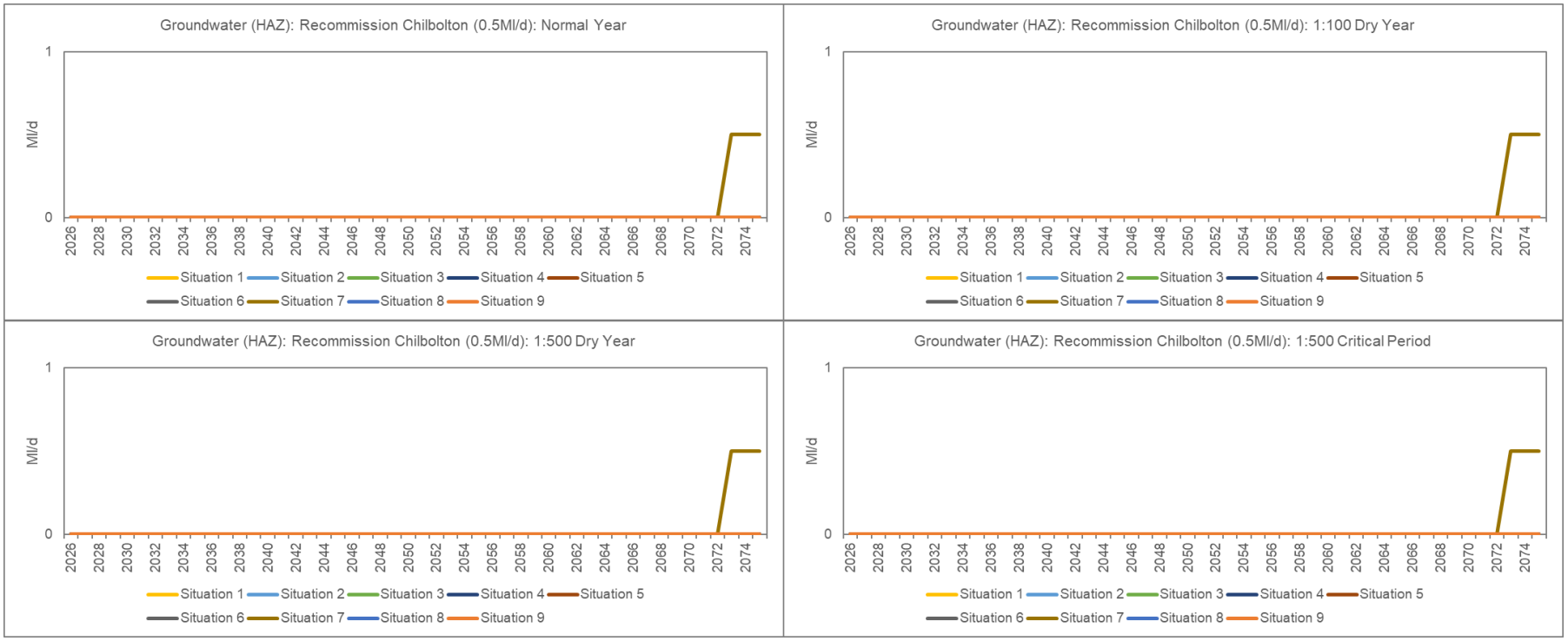

Figure 15: Utilisation of Chilbolton groundwater source in HAZ in each supply-demand situation under each planning scenario.

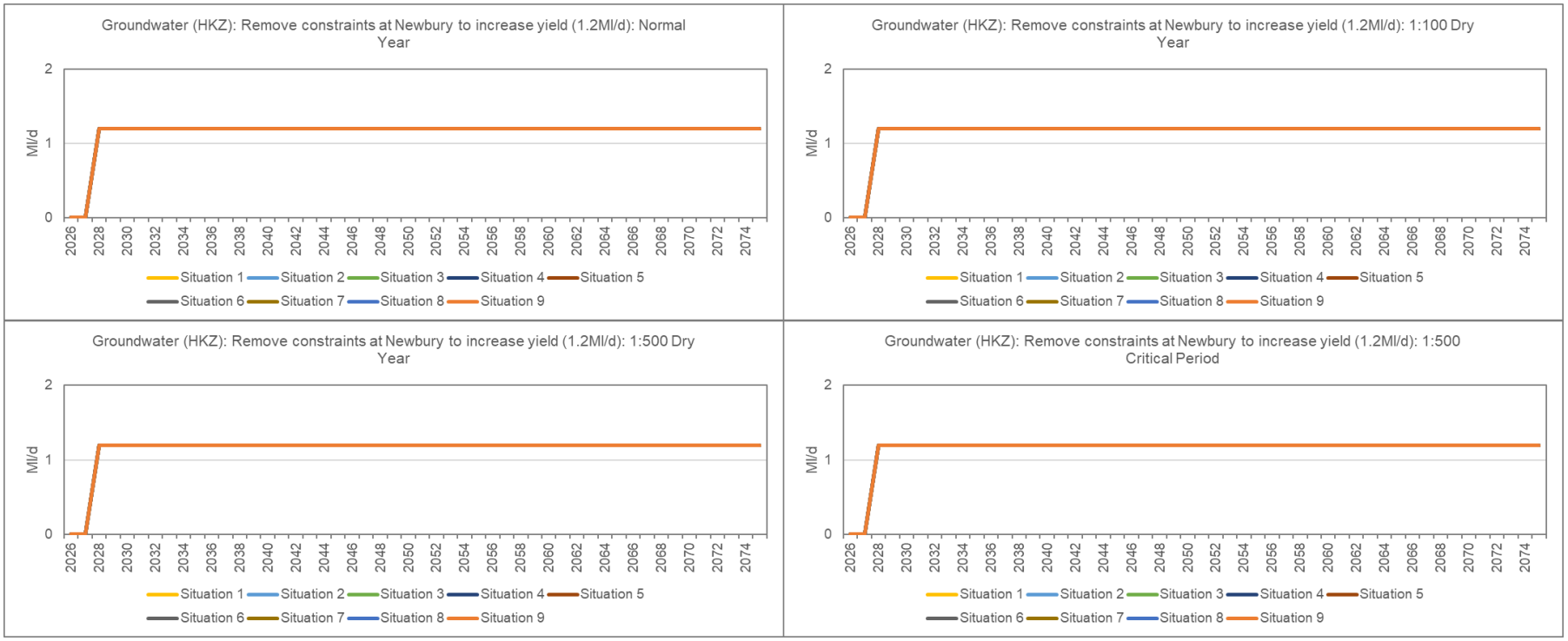

Figure 16: Utilisation of Newbury groundwater source in HKZ in each supply-demand situation under each planning scenario.

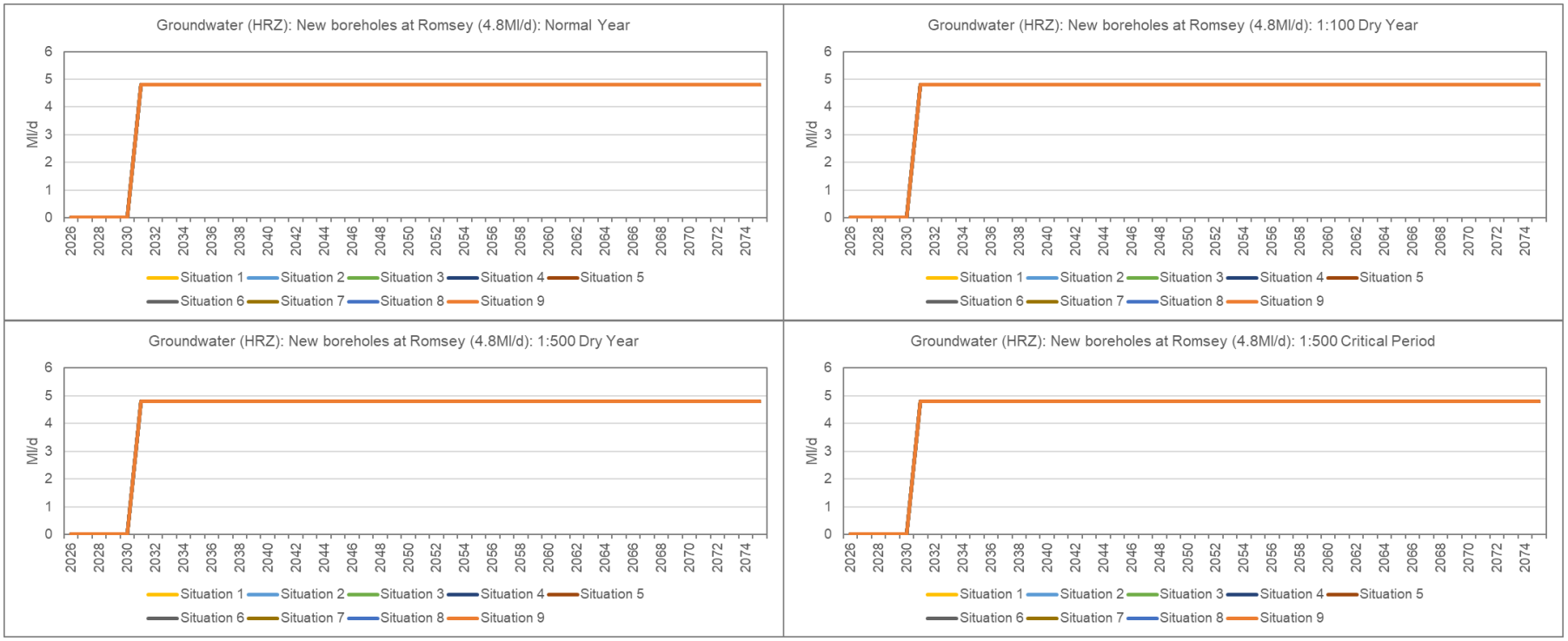

Figure 17: Utilisation of Romsey groundwater source in HRZ in each supply-demand situation under each planning scenario.

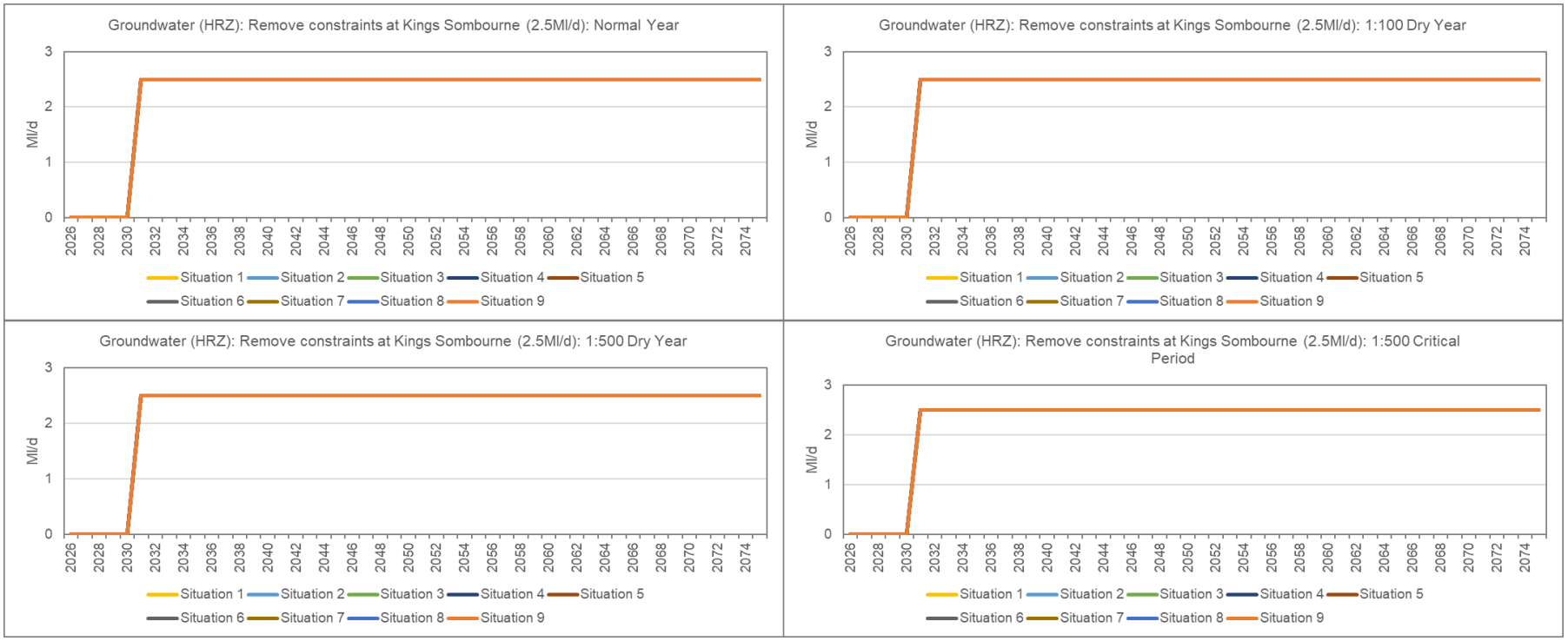

Figure 18: Utilisation of Kings Sombourne groundwater source in HSW in each supply-demand situation under each planning scenario.

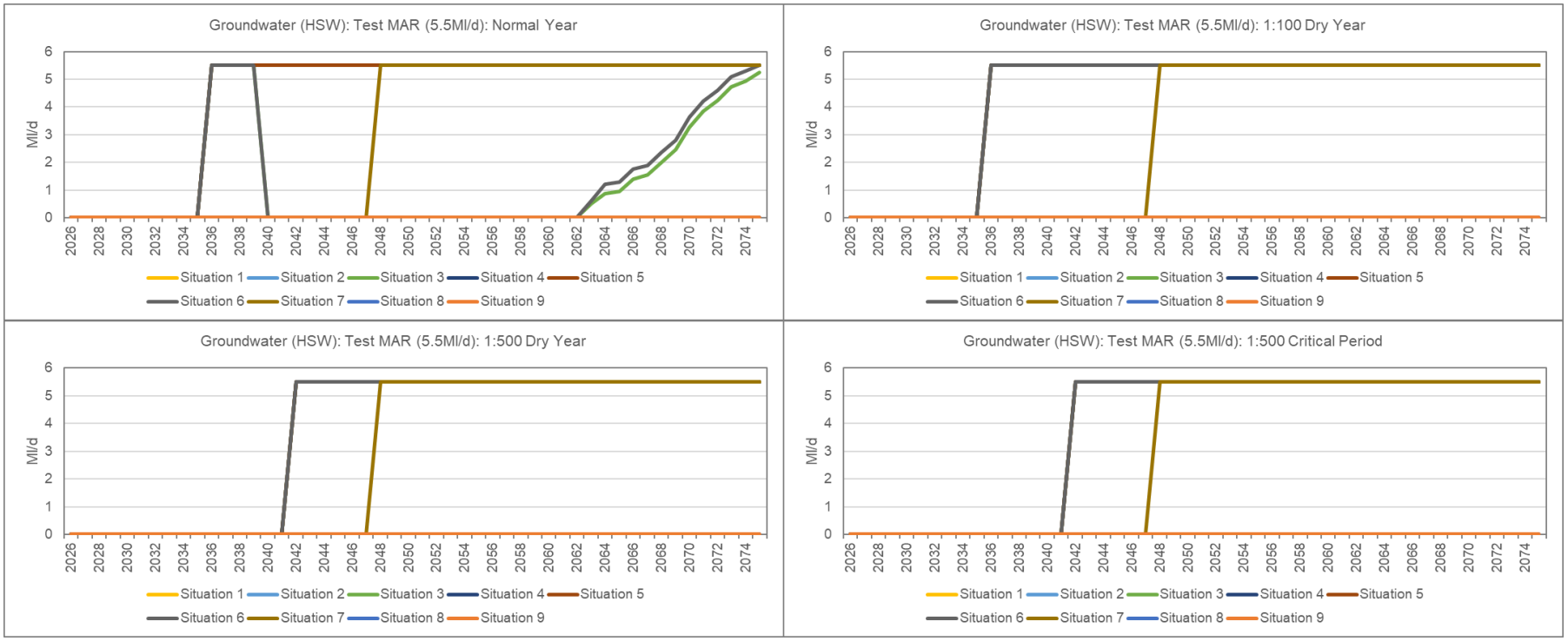

Figure 19: Utilisation of Test MAR groundwater source in HSW in each supply-demand situation under each planning scenario.

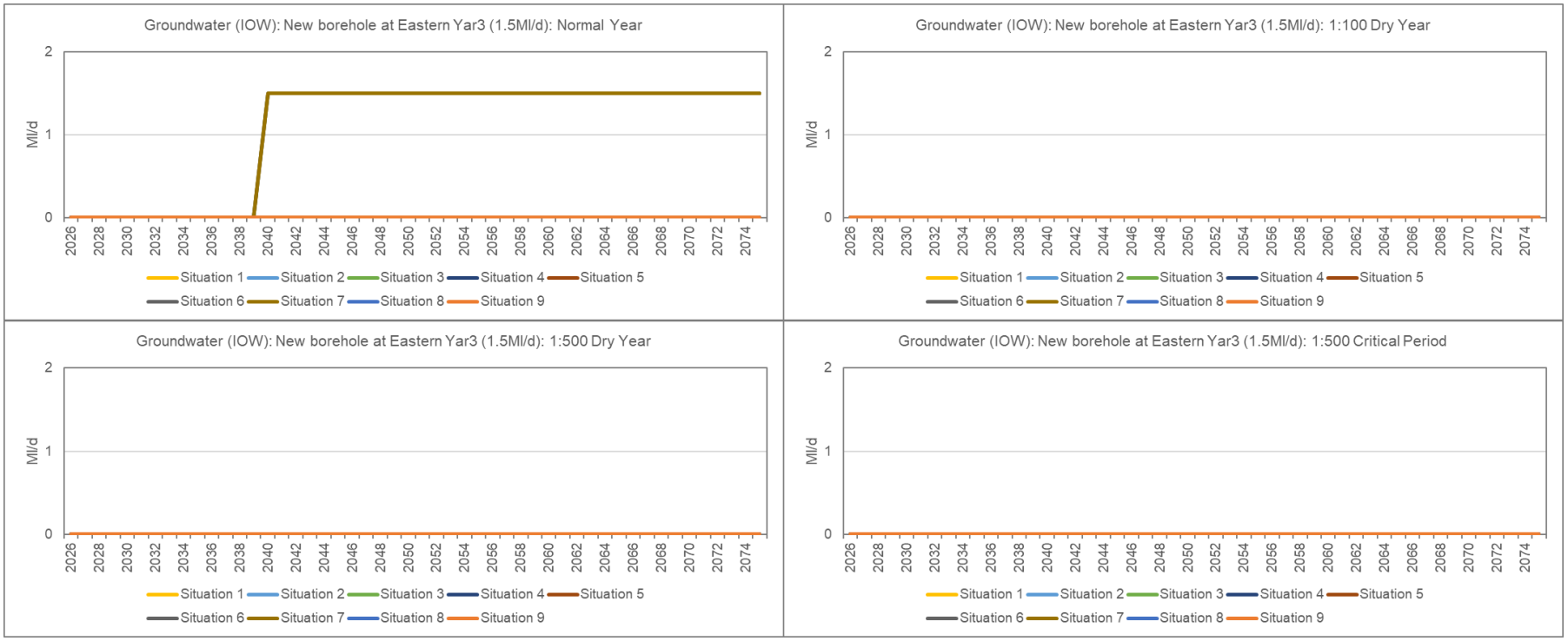

Figure 20: Utilisation of Eastern Yar3 groundwater source on the IOW in each supply-demand situation under each planning scenario.

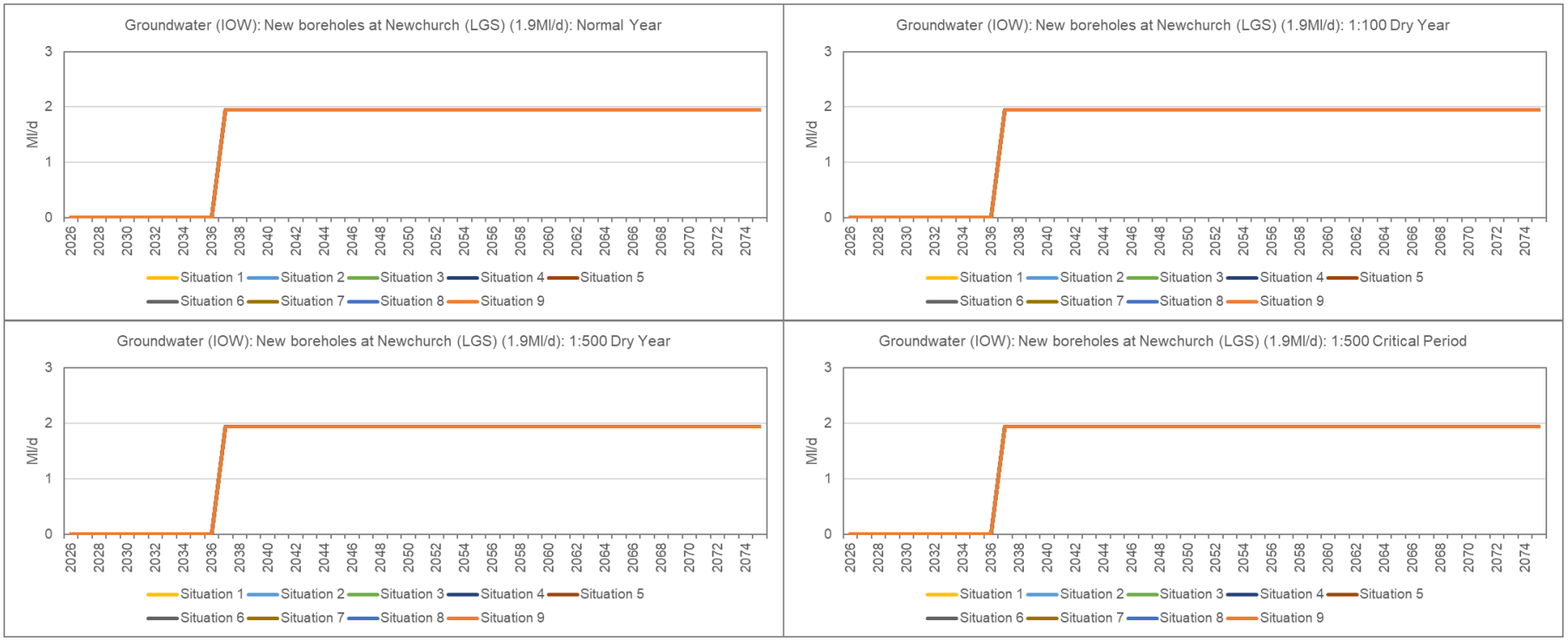

Figure 21: Utilisation of Newchurch groundwater source on the IOW in each supply-demand situation under each planning scenario.

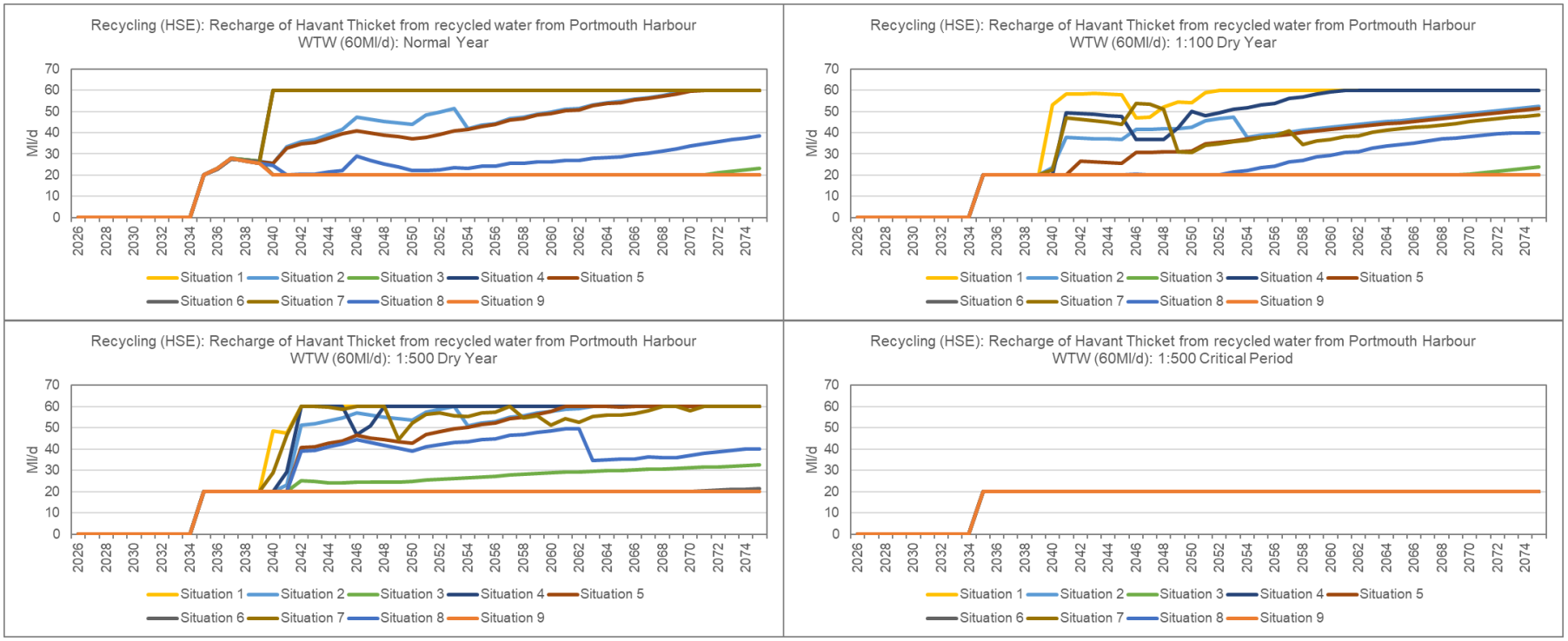

Figure 22: Utilisation of the option to augment storage in Havant Thicket Reservoir with recycled water from Portsmouth Harbour WTW in each supply-demand situation under each planning scenario.

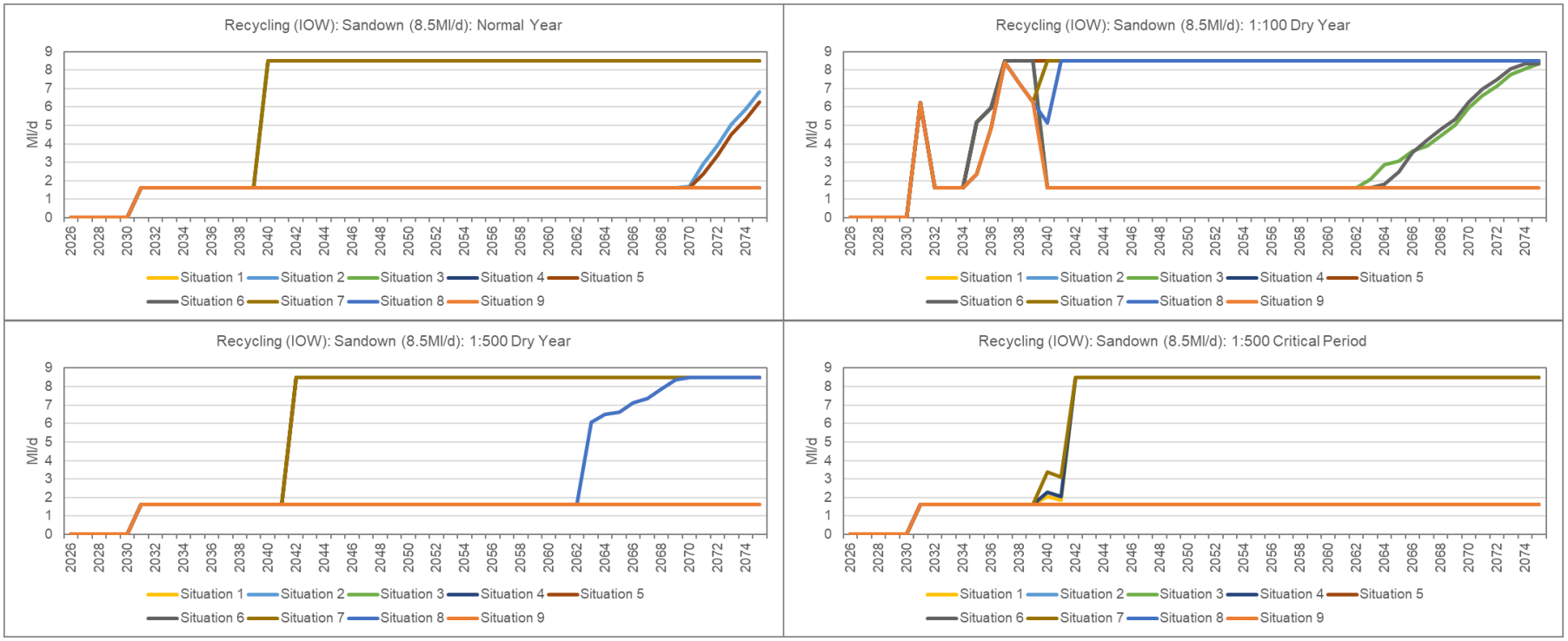

Figure 23: Utilisation of Sandown recycling option on the IOW in each supply-demand situation under each planning scenario.

2.4.2 Central area

Utilisation of supply-side options in the Central area is shown in Figure 24 to Figure 43, excluding interzonal transfers.

Figure 24: Utilisation of bulk export from SNZ to SES Water in each supply-demand situation under each planning scenario.

Figure 25: Utilisation of bulk export from Weir Wood Reservoir in SNZ to South East Water in each supply-demand situation under each planning scenario.

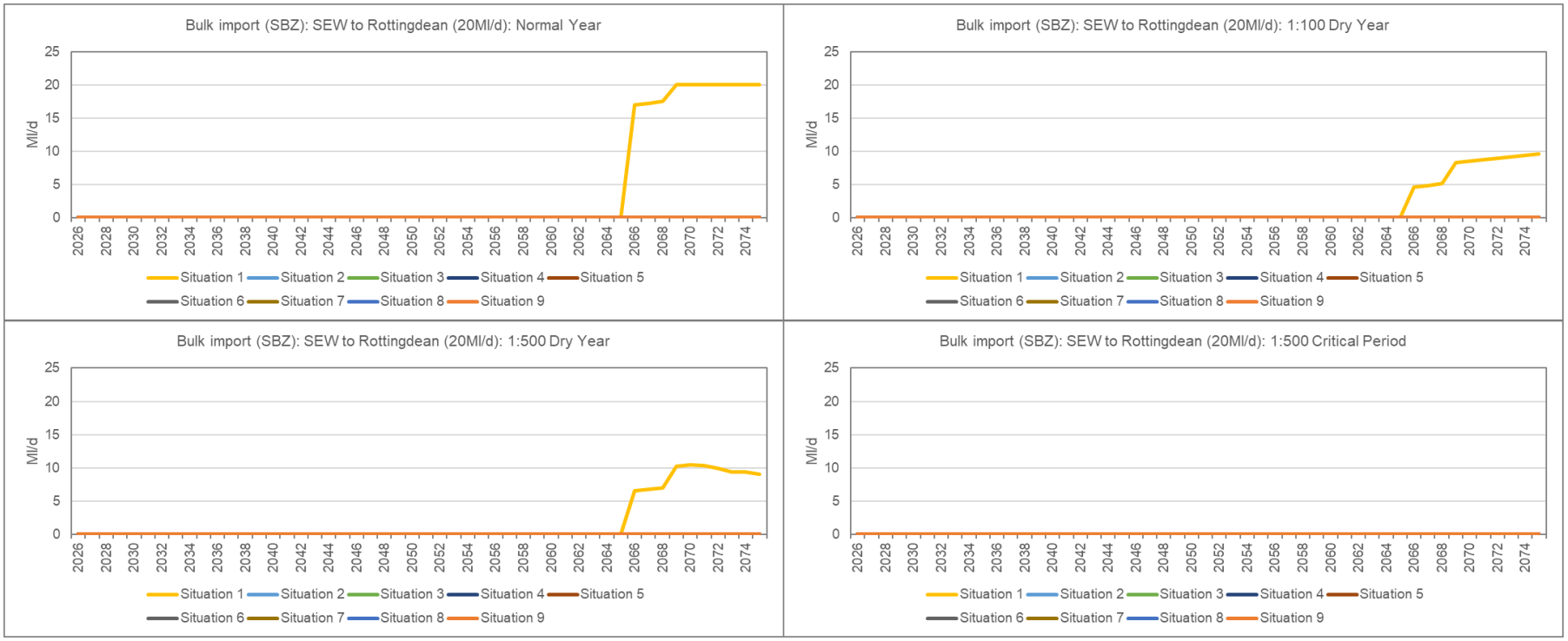

Figure 26: Utilisation of bulk import from South East Water to Rottingdean WSW in SBZ in each supply-demand situation under each planning scenario.

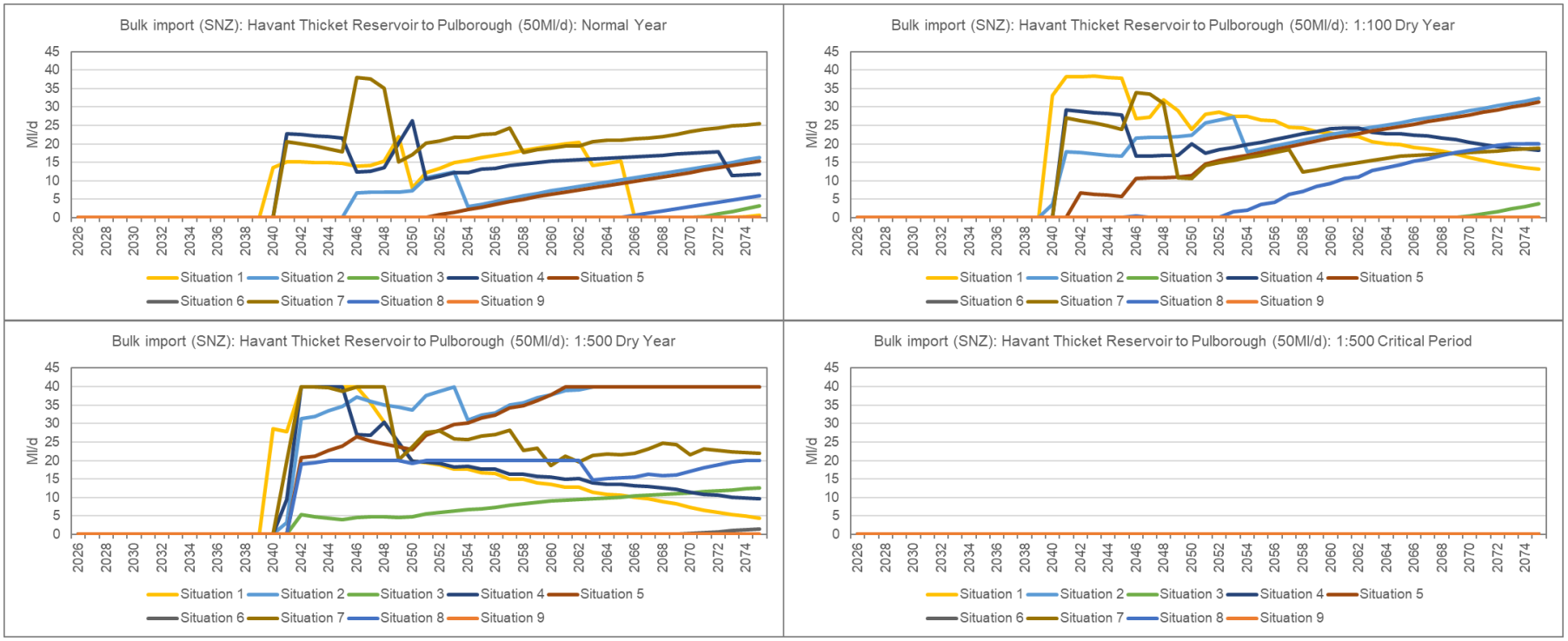

Figure 27: Utilisation of bulk import from Havant Thicket Reservoir to Pulborough in SNZ in each supply-demand situation under each planning scenario.

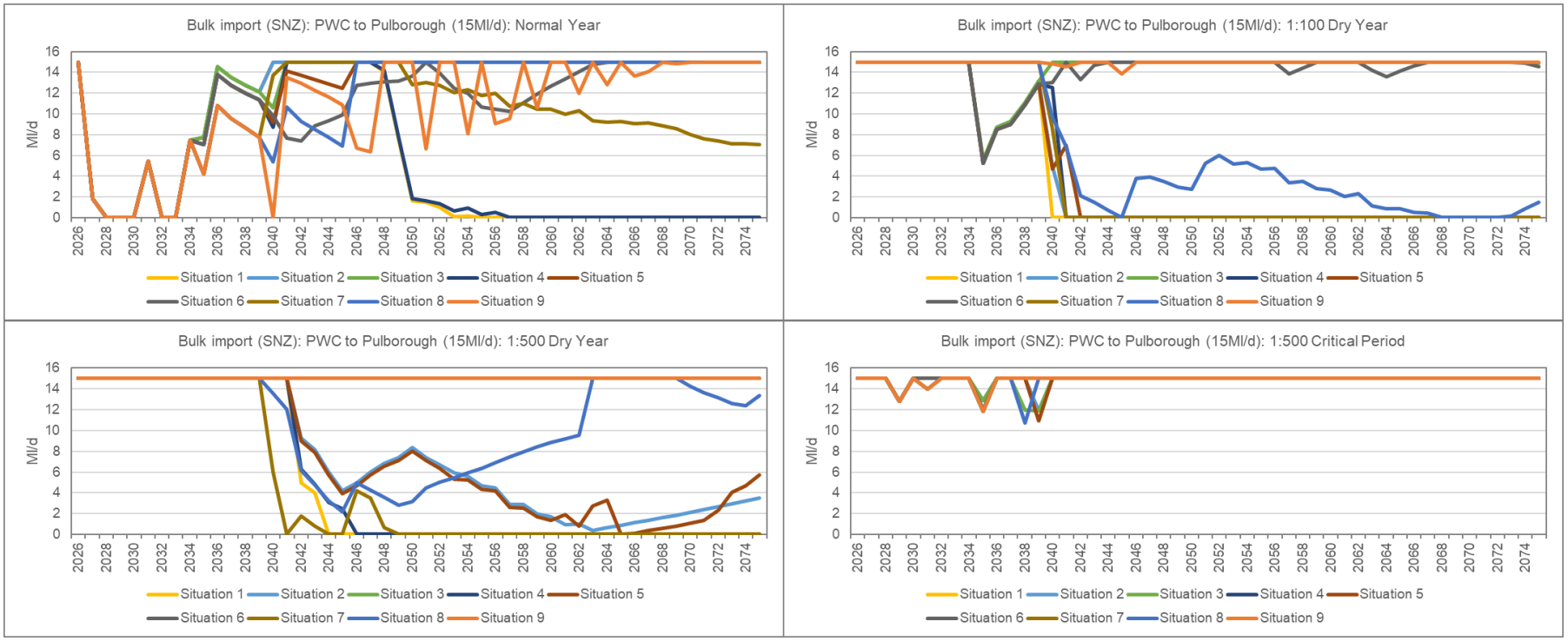

Figure 28: Utilisation of bulk import from Portsmouth Water to Pulborough in SNZ in each supply-demand situation under each planning scenario.

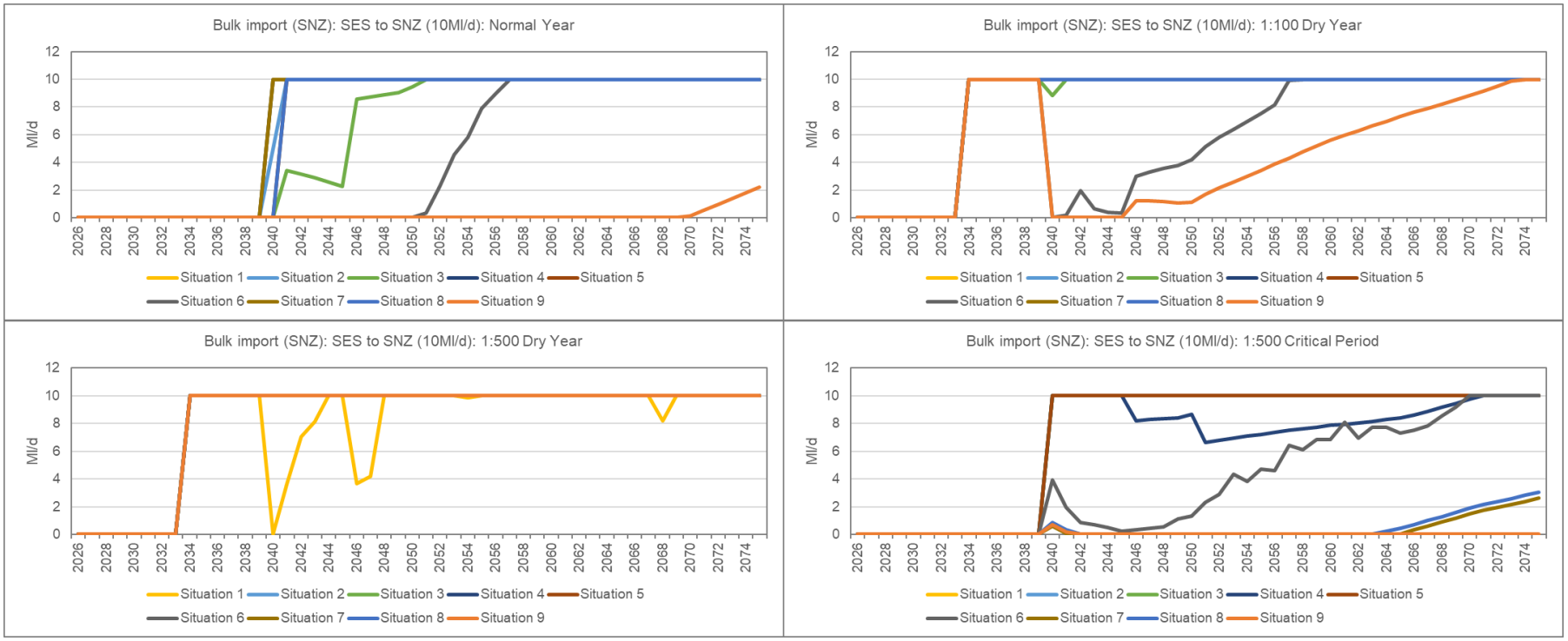

Figure 29: Utilisation of bulk import from SES Water to SNZ in each supply-demand situation under each planning scenario.

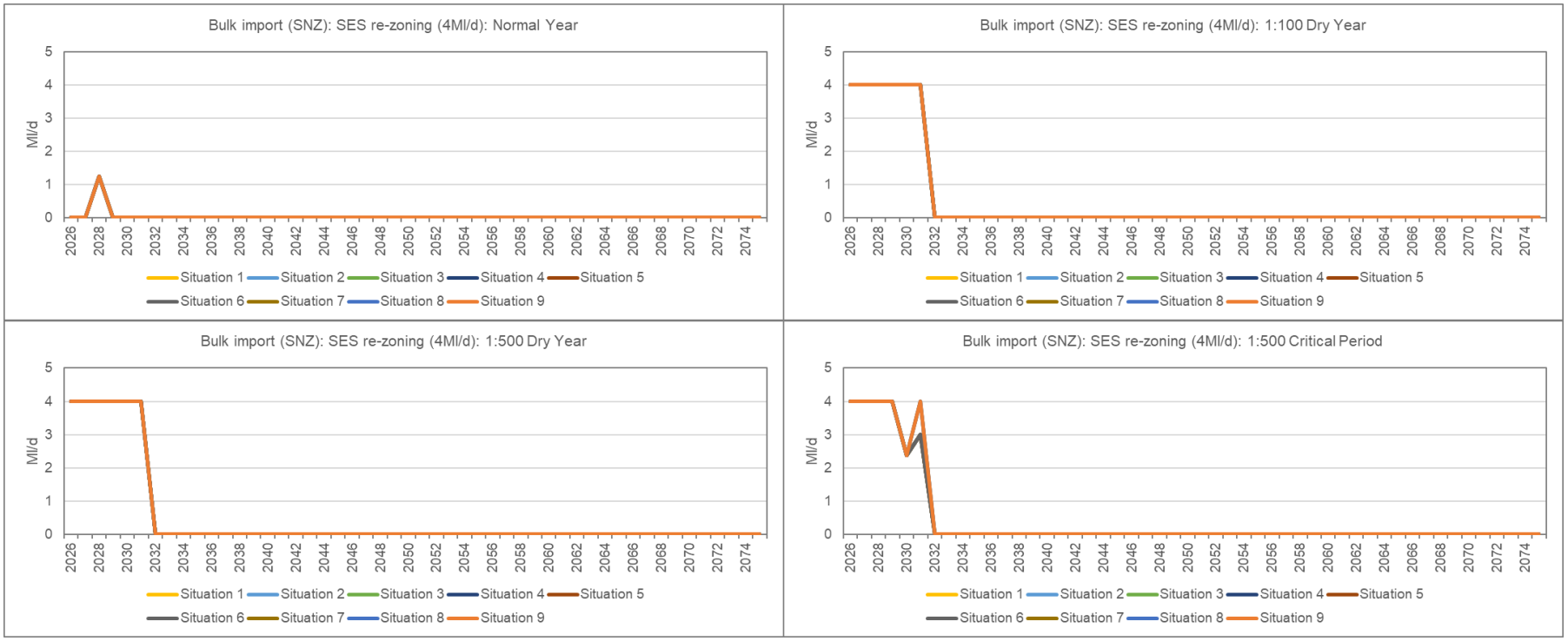

Figure 30: Utilisation of the option to rezone customers in SNZ to SES Water in each supply-demand situation under each planning scenario.

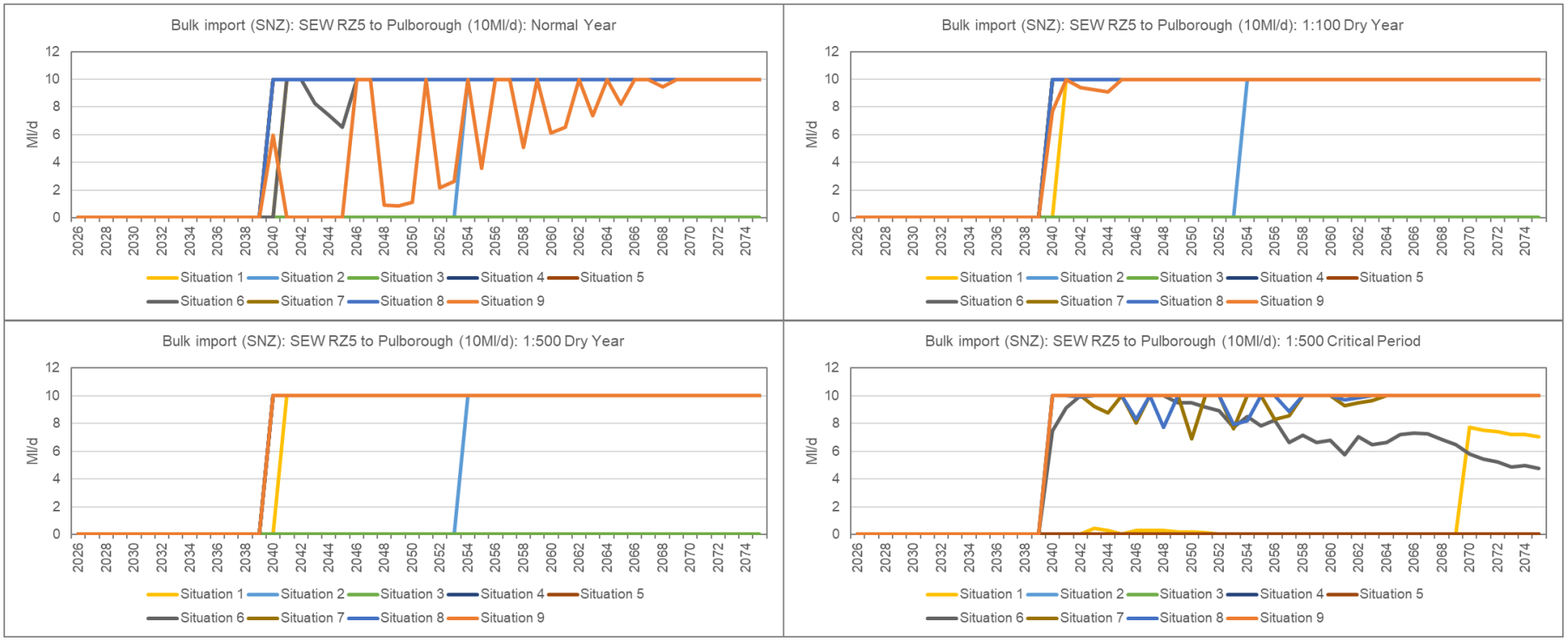

Figure 31: Utilisation of bulk import from South East Water to Pulborough WSW in SNZ in each supply-demand situation under each planning scenario.

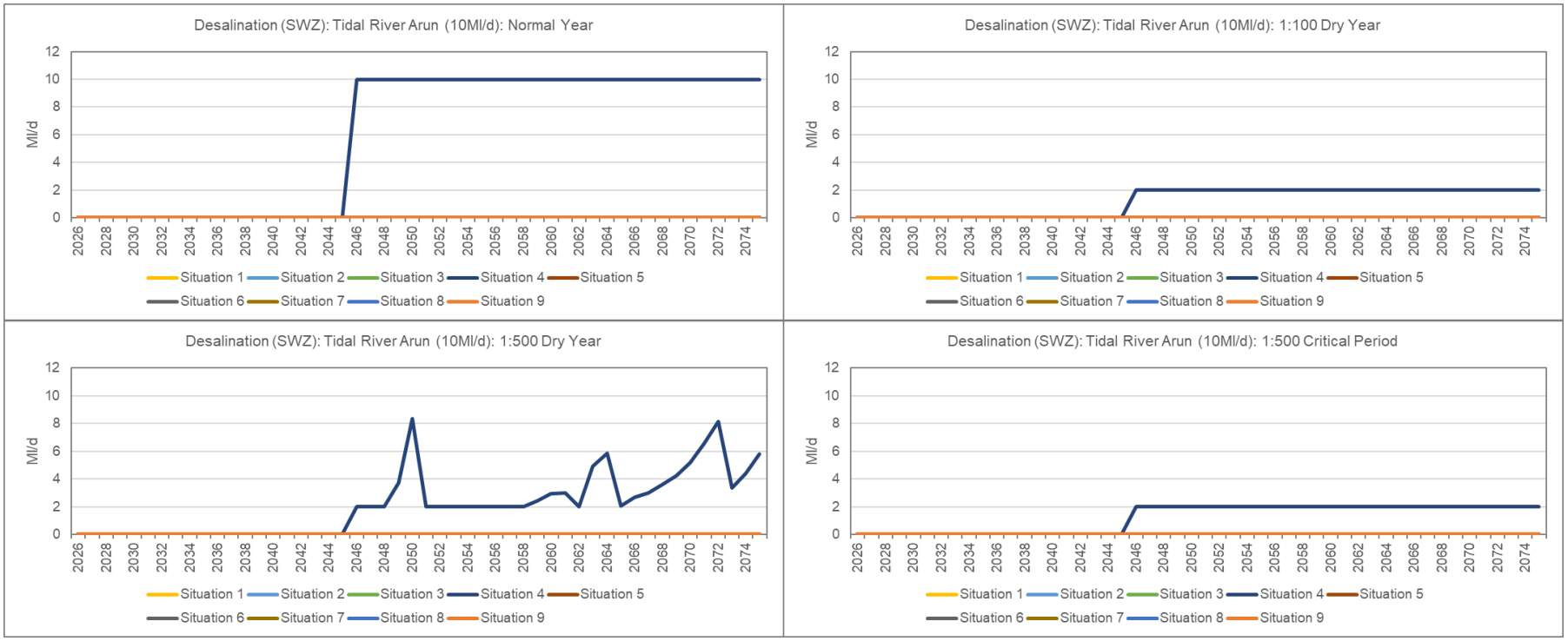

Figure 32: Utilisation of River Arun desalination option (10M/d) in SWZ in each supply-demand situation under each planning scenario.

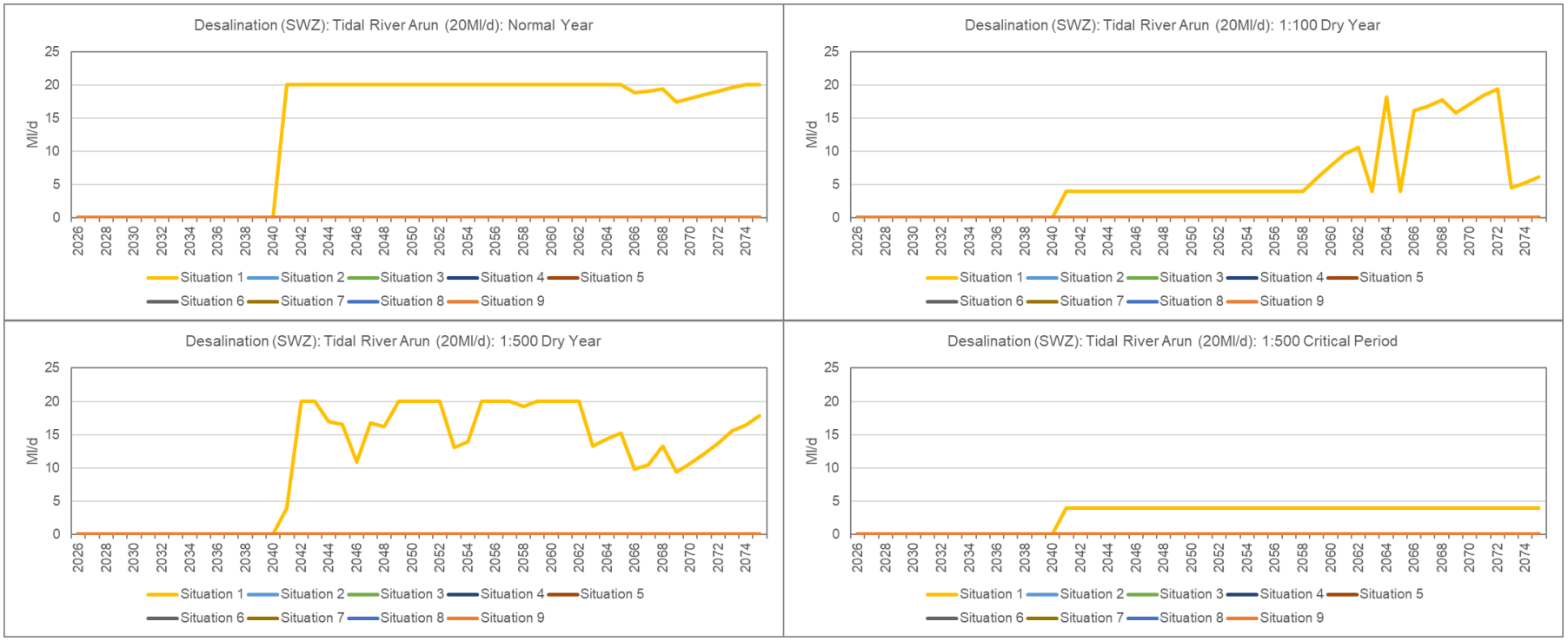

Figure 33: Utilisation of River Arun desalination option (20M/d) in SWZ in each supply-demand situation under each planning scenario.

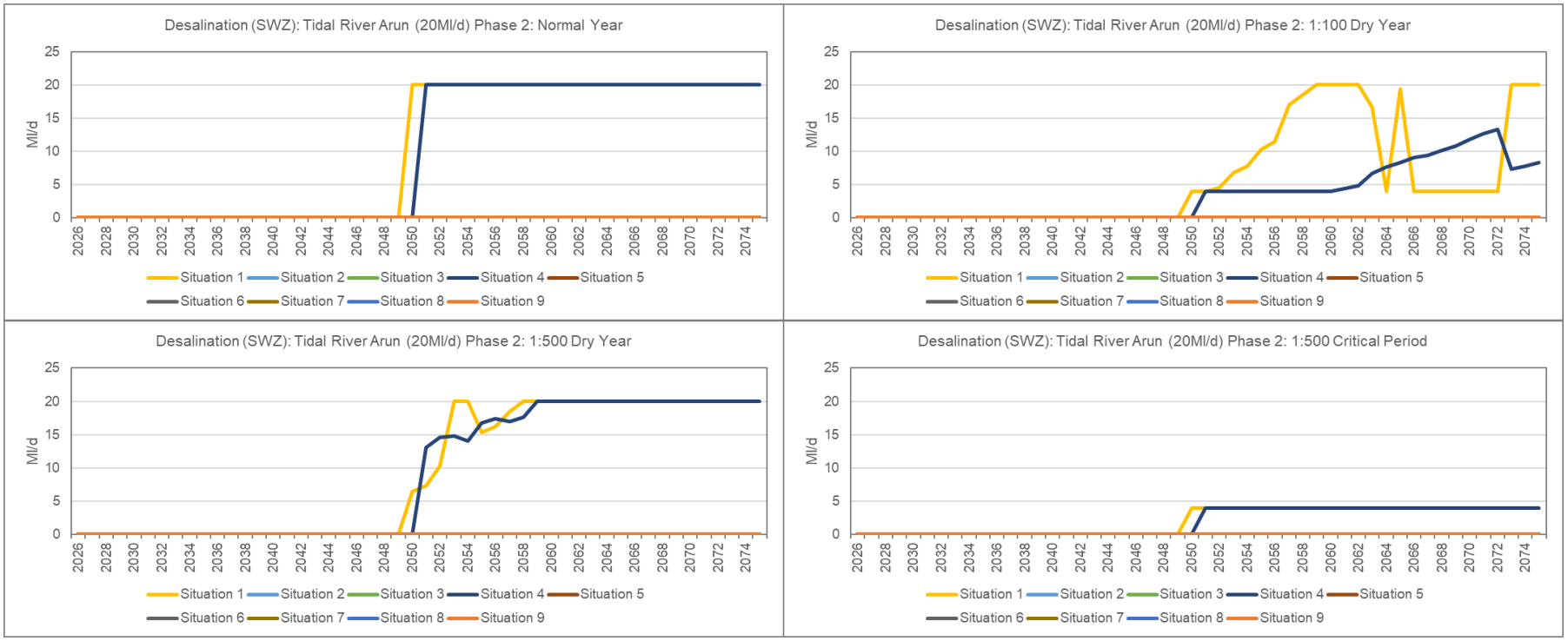

Figure 34: Utilisation of River Arun desalination option (20M/d Phase) in SWZ in each supply-demand situation under each planning scenario.

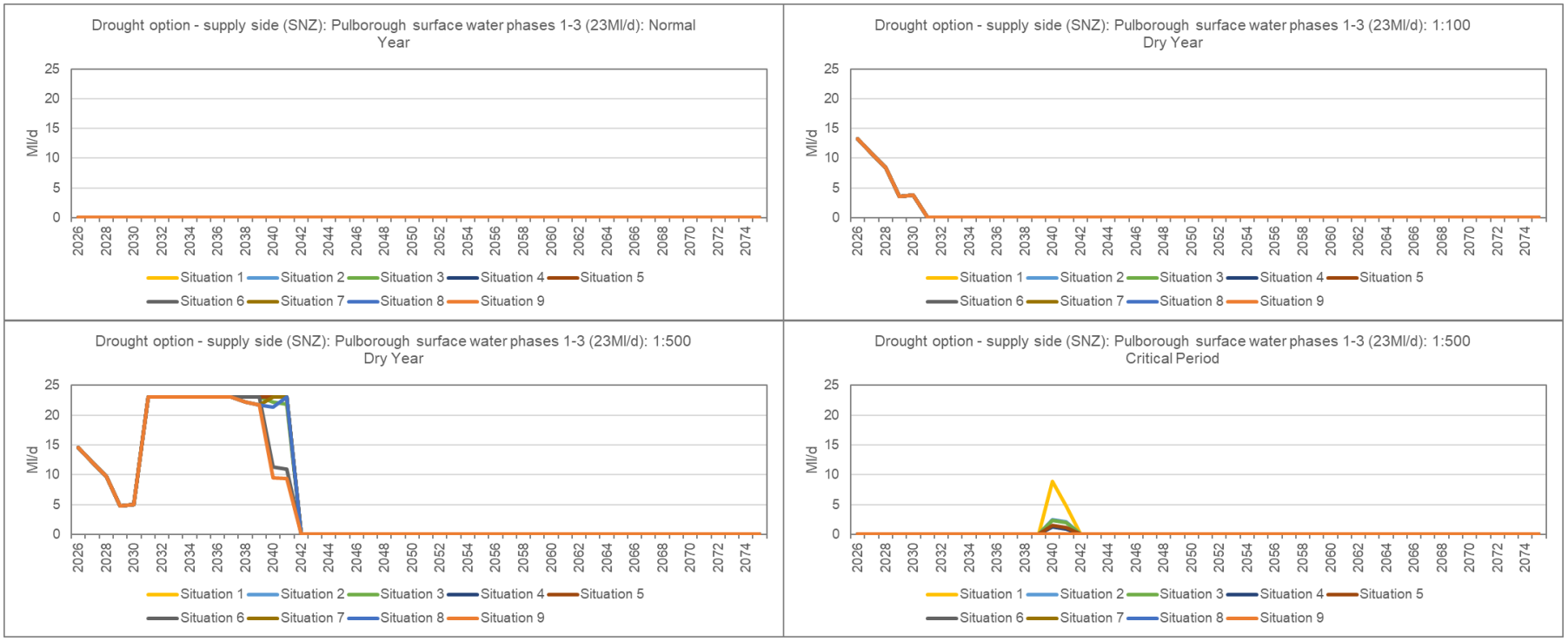

Figure 35: Utilisation of Pulborough surface water drought option in SWZ in each supply-demand situation under each planning scenario.

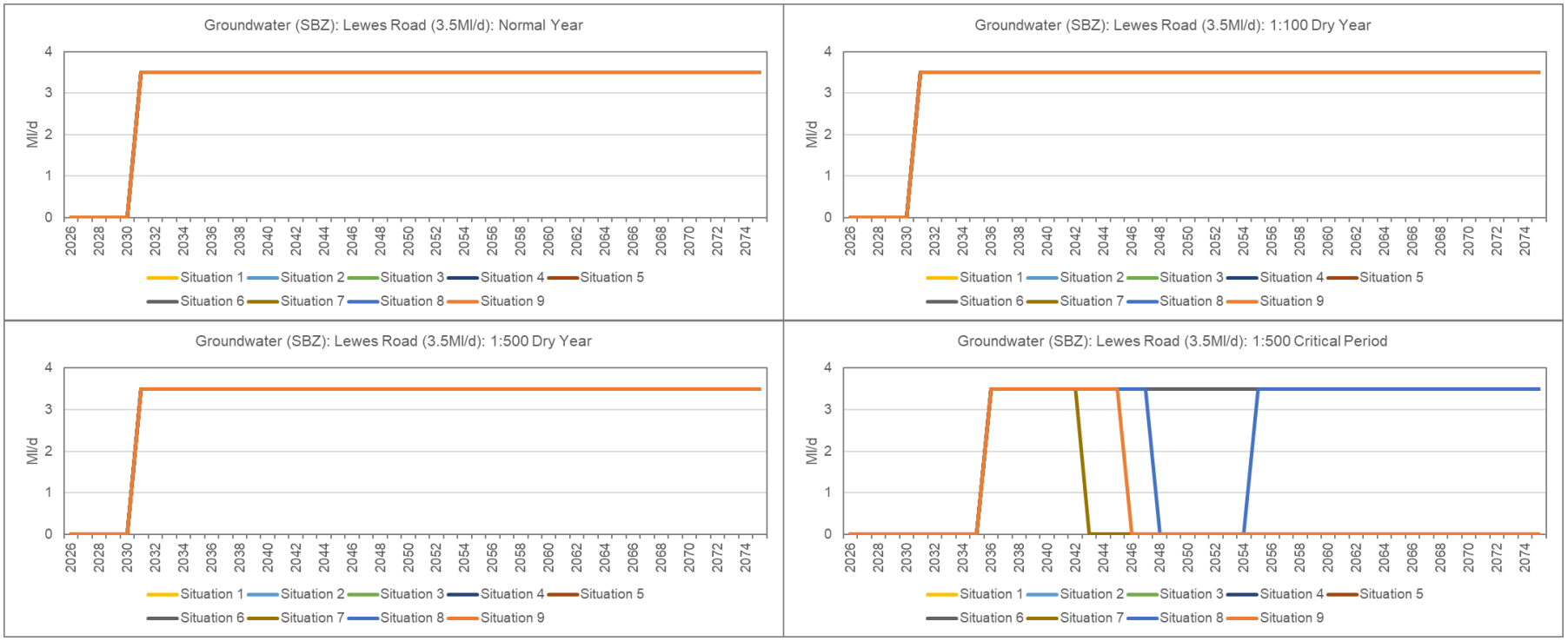

Figure 36: Utilisation of Lewes Road groundwater option in SBZ in each supply-demand situation under each planning scenario.

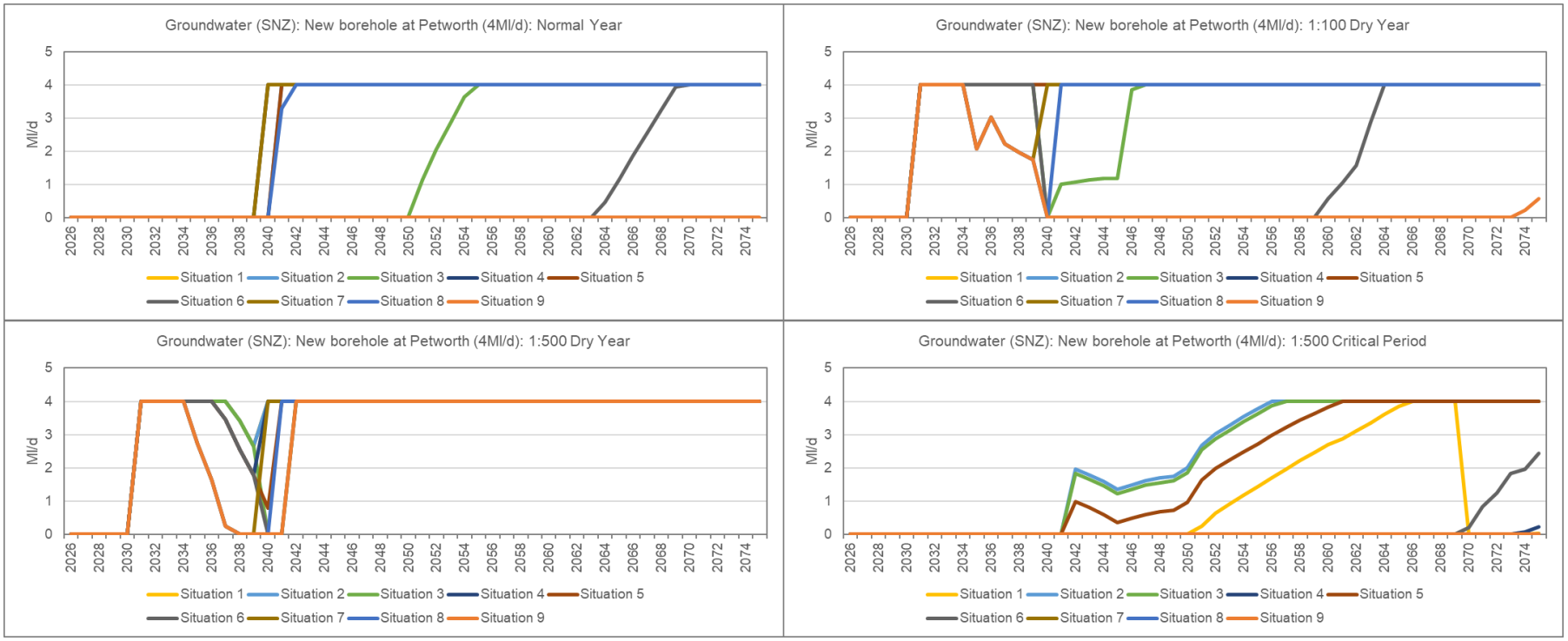

Figure 37: Utilisation of Petworth groundwater option in SNZ in each supply-demand situation under each planning scenario.

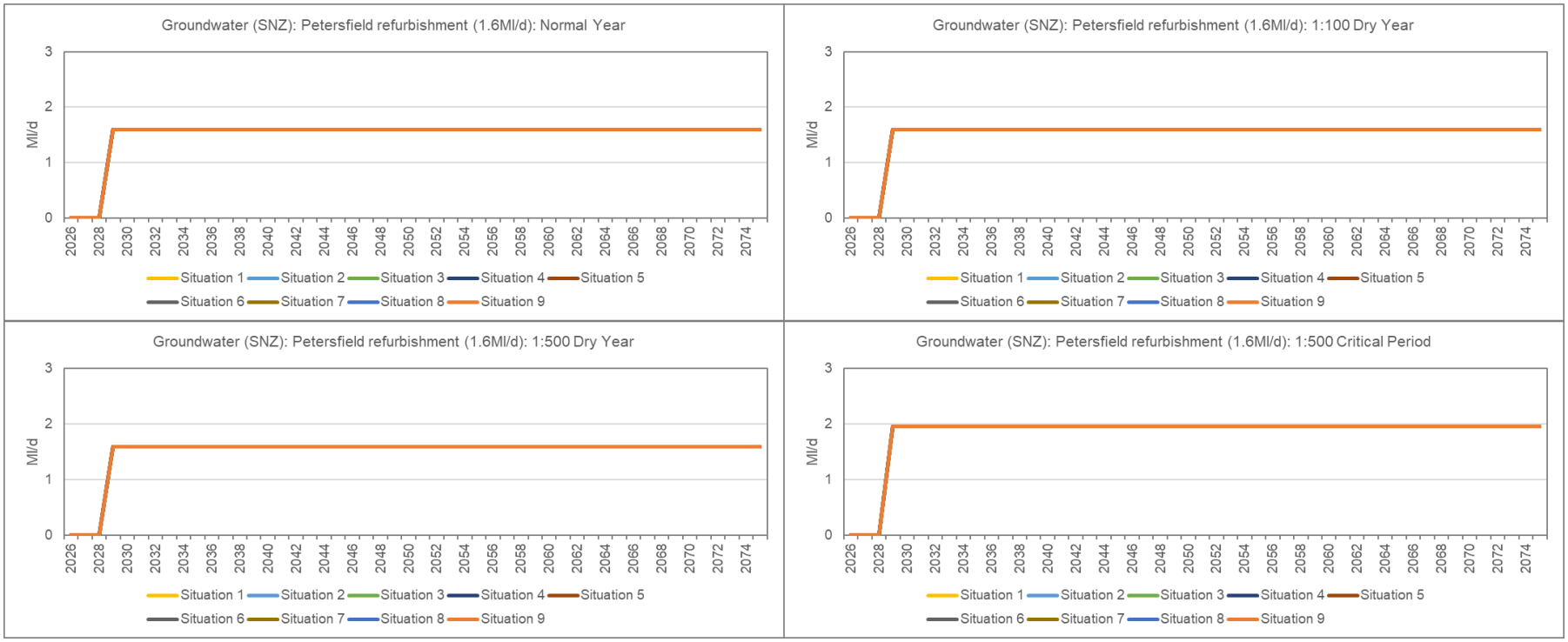

Figure 38: Utilisation of Petersfield groundwater option in SNZ in each supply-demand situation under each planning scenario.

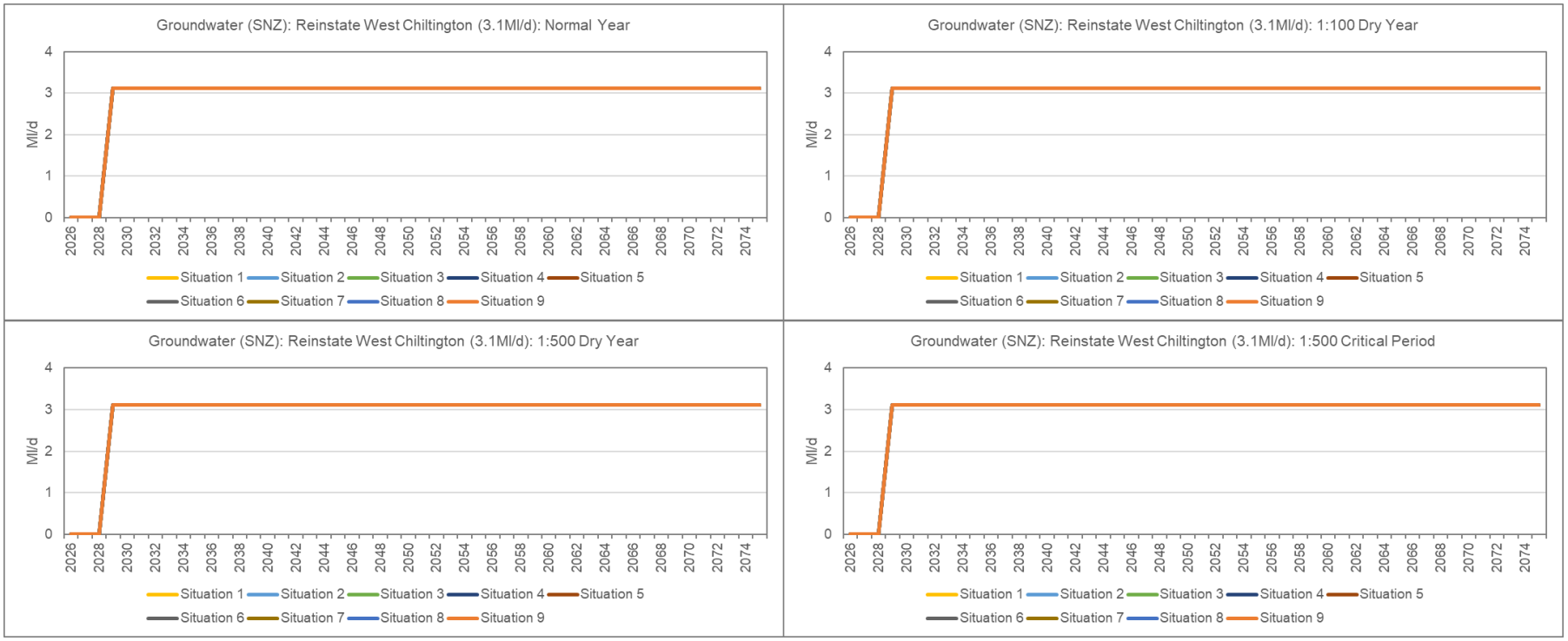

Figure 39: Utilisation of West Chiltington groundwater option in SNZ in each supply-demand situation under each planning scenario.

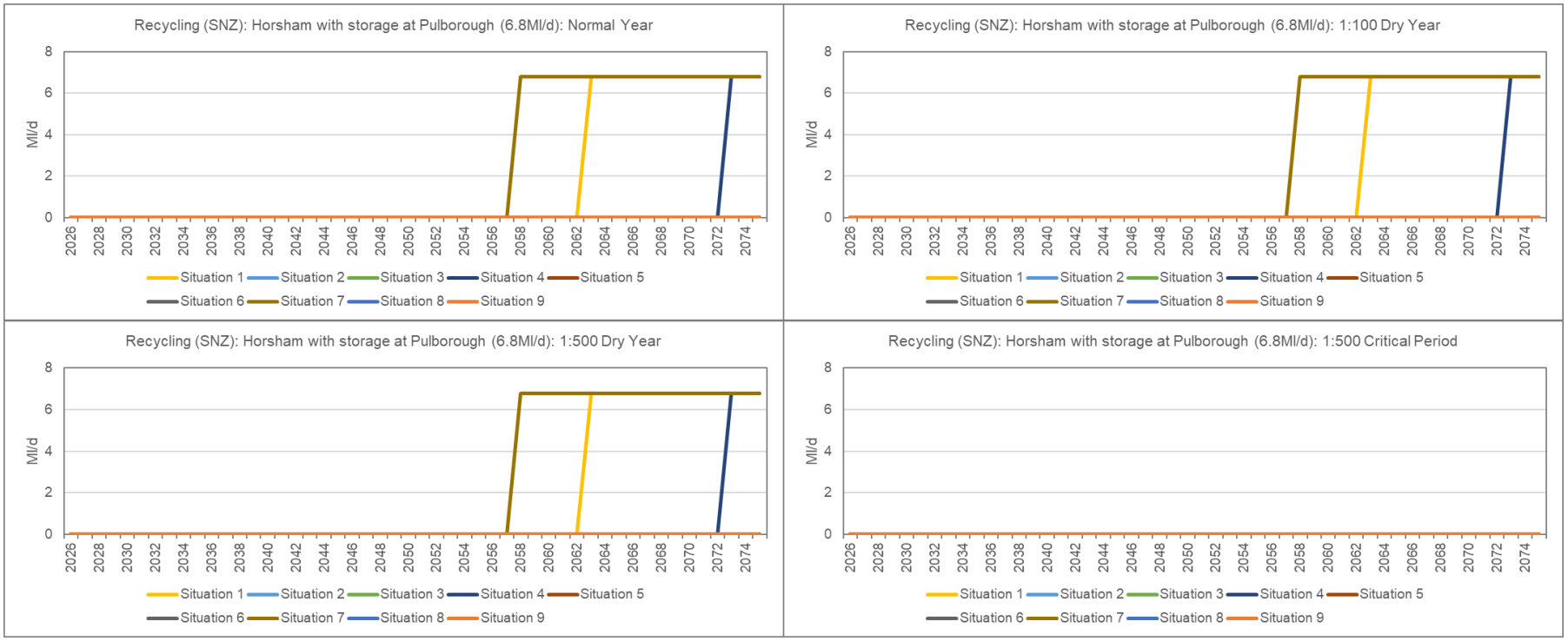

Figure 40: Utilisation of Horsham recycling option in SNZ in each supply-demand situation under each planning scenario.

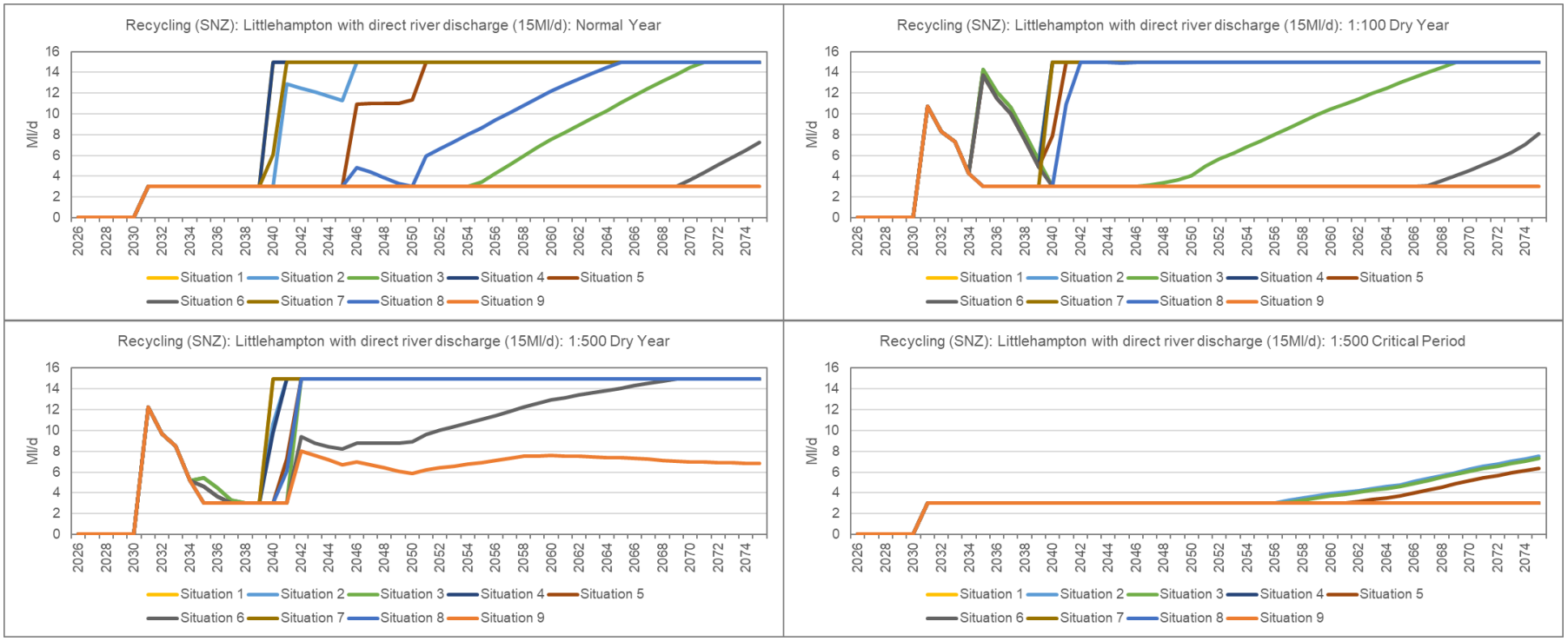

Figure 41: Utilisation of Littlehampton WTW recycling option in SNZ in each supply-demand situation under each planning scenario.

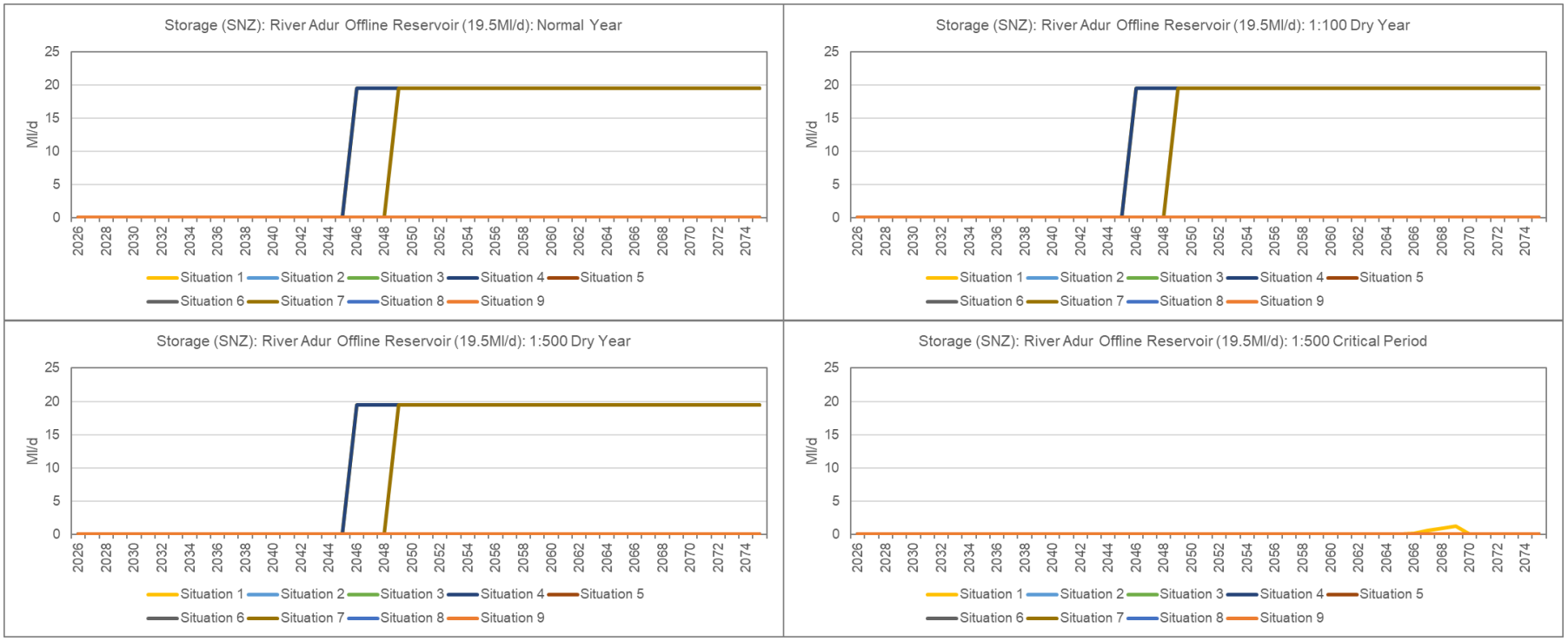

Figure 42: Utilisation of River Adur Offline Reservoir in SNZ in each supply-demand situation under each planning scenario.

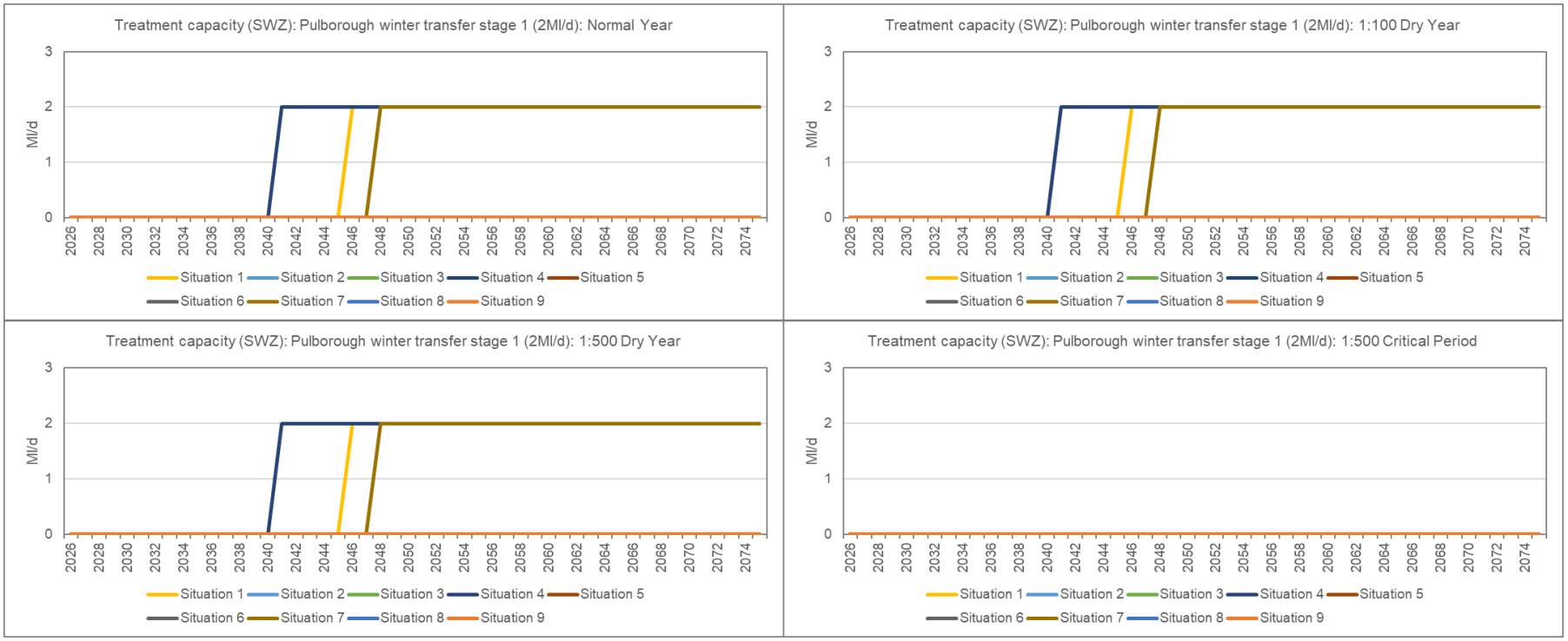

Figure 43: Utilisation of Pulborough winter transfer stage 1 option in SNZ in each supply-demand situation under each planning scenario.

2.4.3 Eastern area

Utilisation of supply-side options in the Western area is shown in Figure 44 to Figure 72, excluding interzonal transfers.

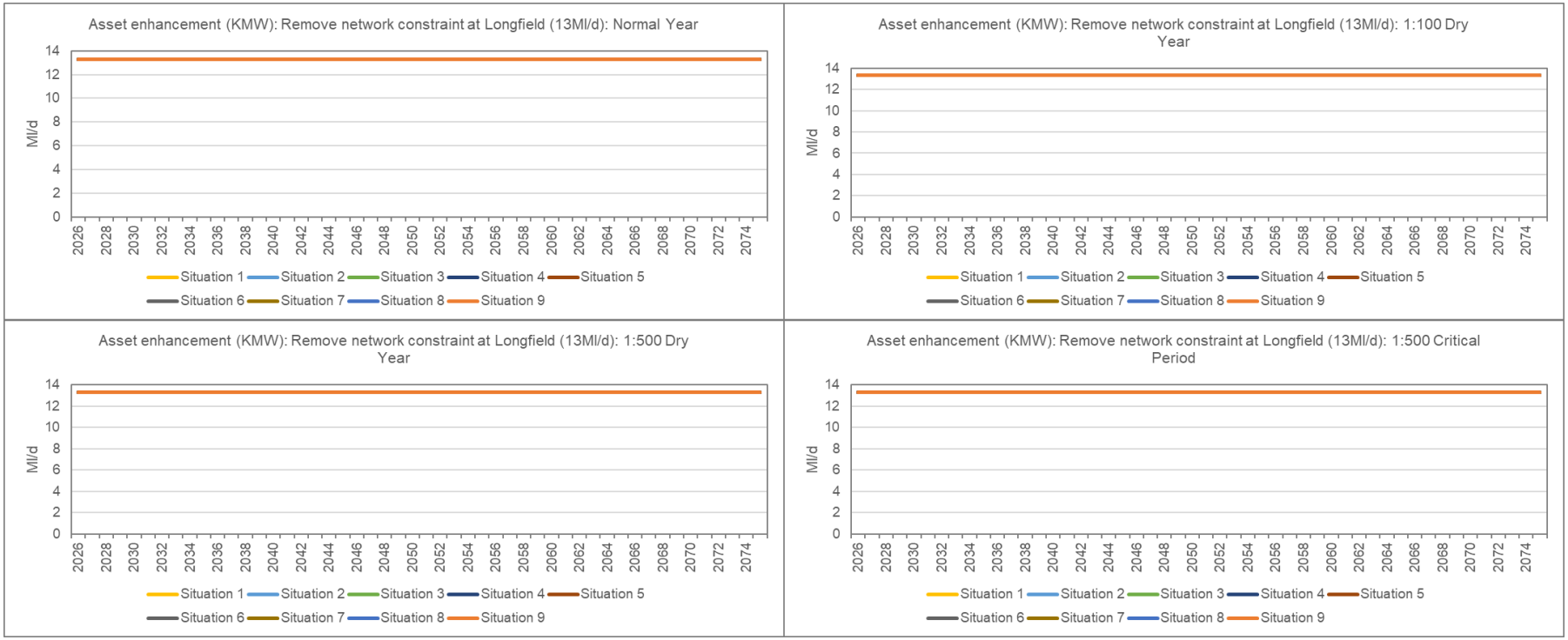

Figure 44: Utilisation of asset enhancement option in KMW in each supply-demand situation under each planning scenario.

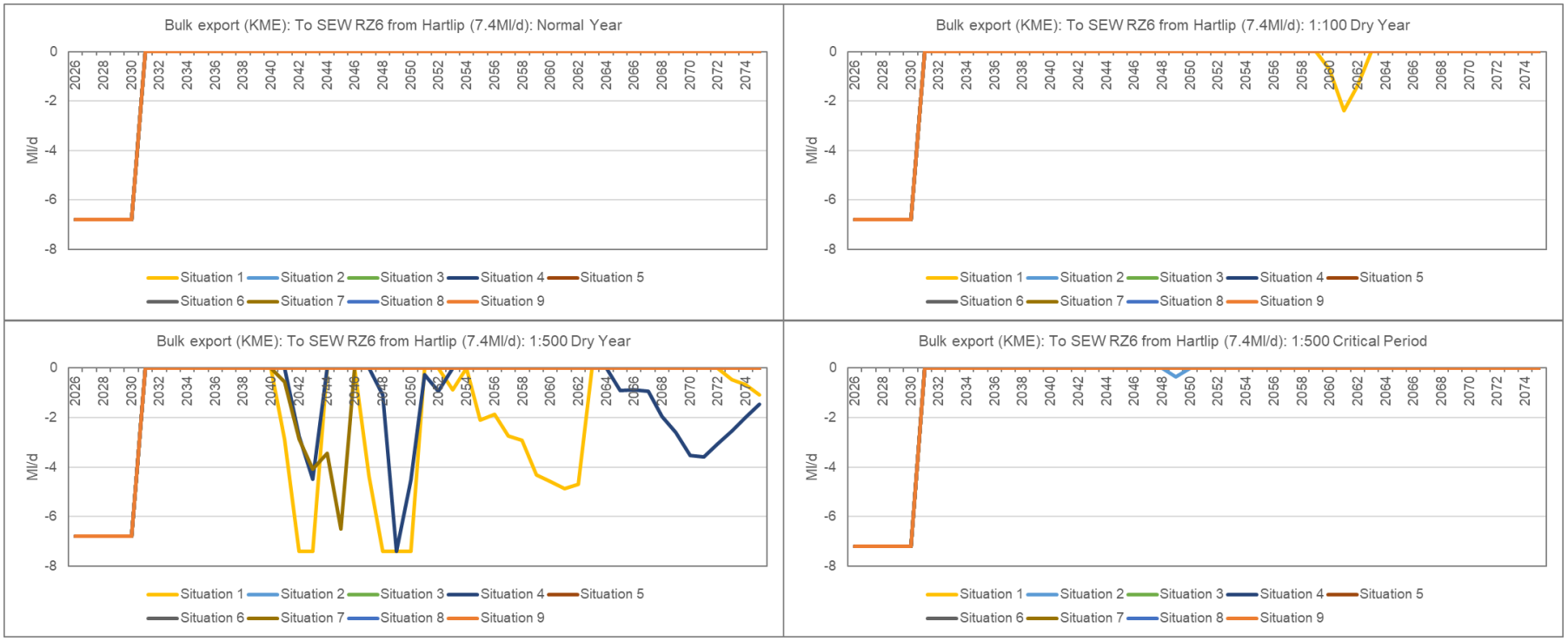

Figure 45: Utilisation of bulk export from KME to South East Water from Hartlip in each supply-demand situation under each planning scenario.

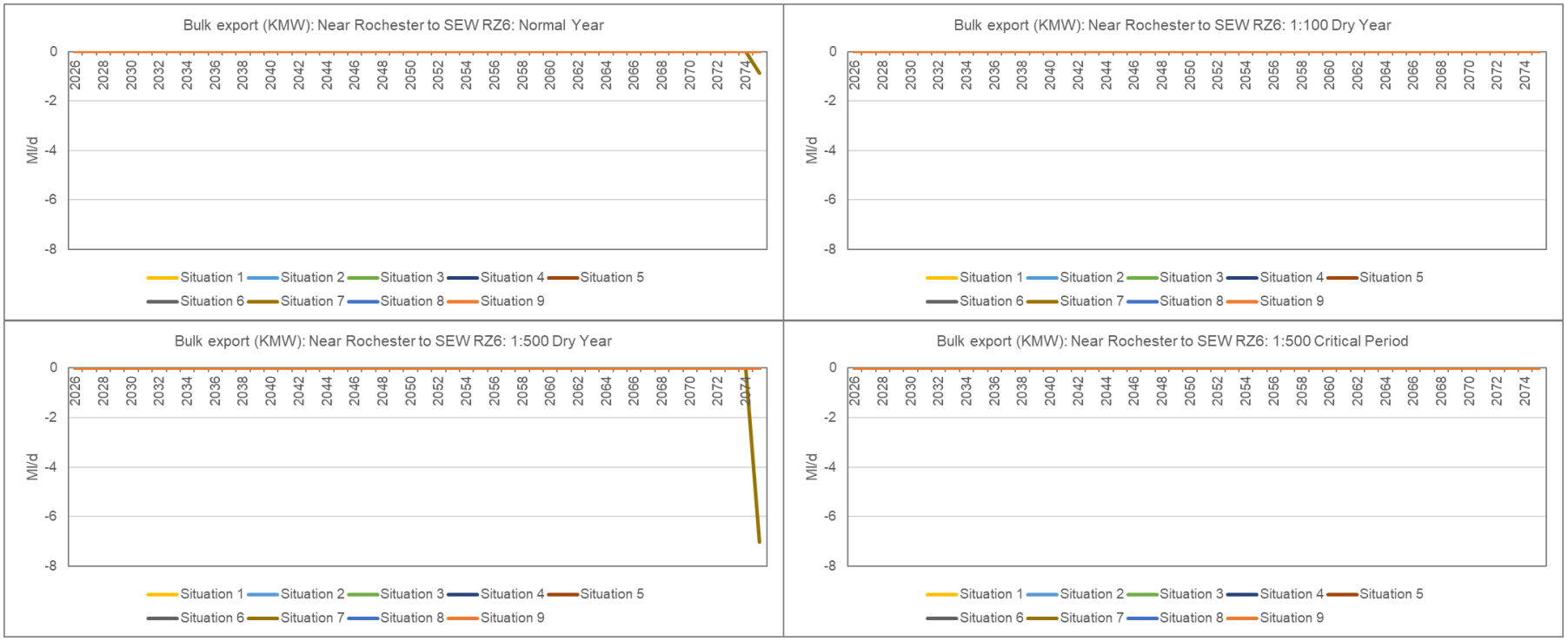

Figure 46: Utilisation of bulk export from KMW to South East Water Resource Zone 6 in each supply-demand situation under each planning scenario.

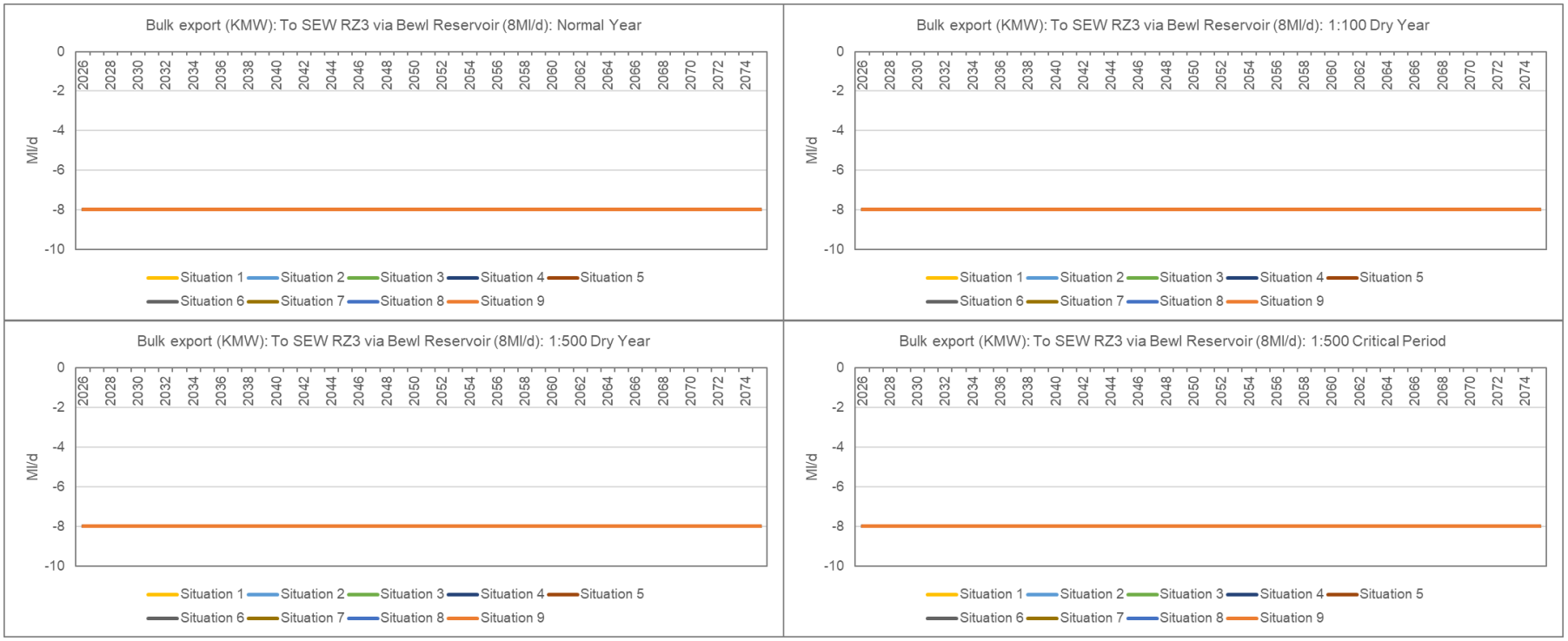

Figure 47: Utilisation of bulk export from KMW to South East Water through the Bewl-Darwell system in each supply-demand situation under each planning scenario.

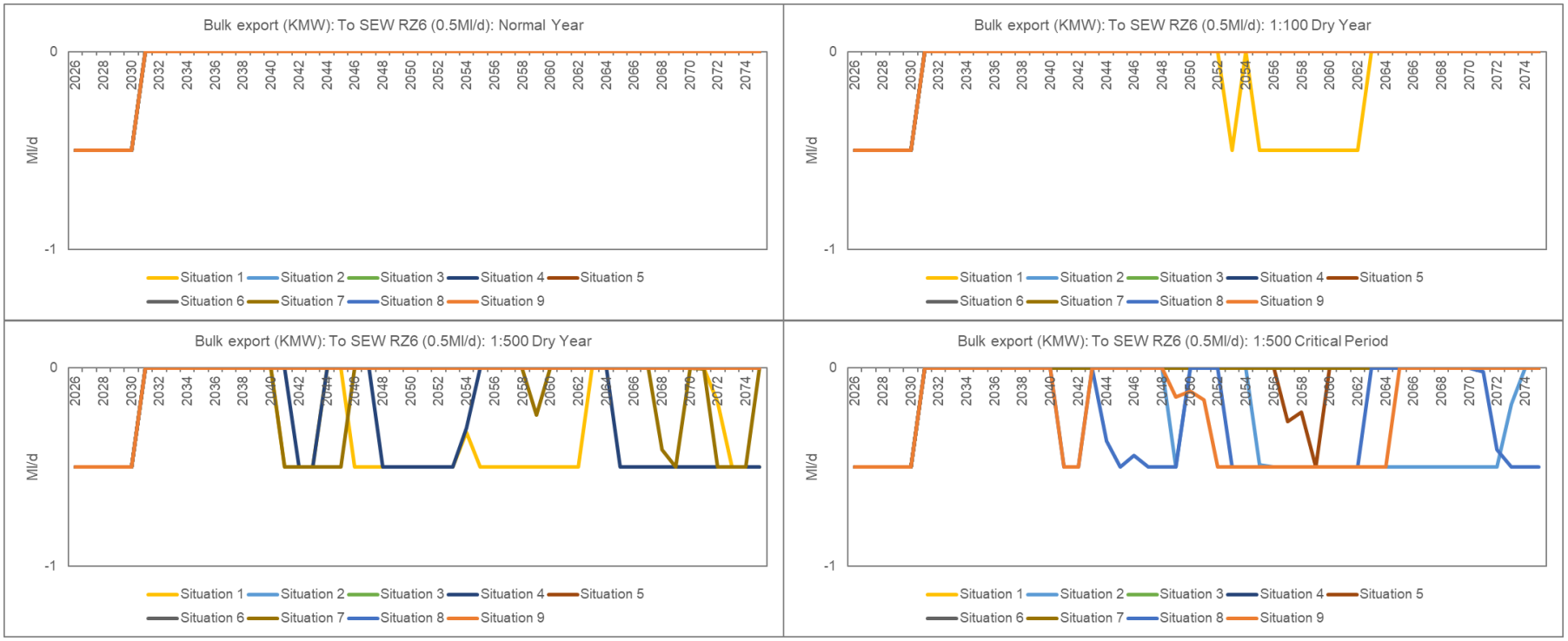

Figure 48: Utilisation of bulk export from KMW to South East Water RZ6 in each supply-demand situation under each planning scenario.

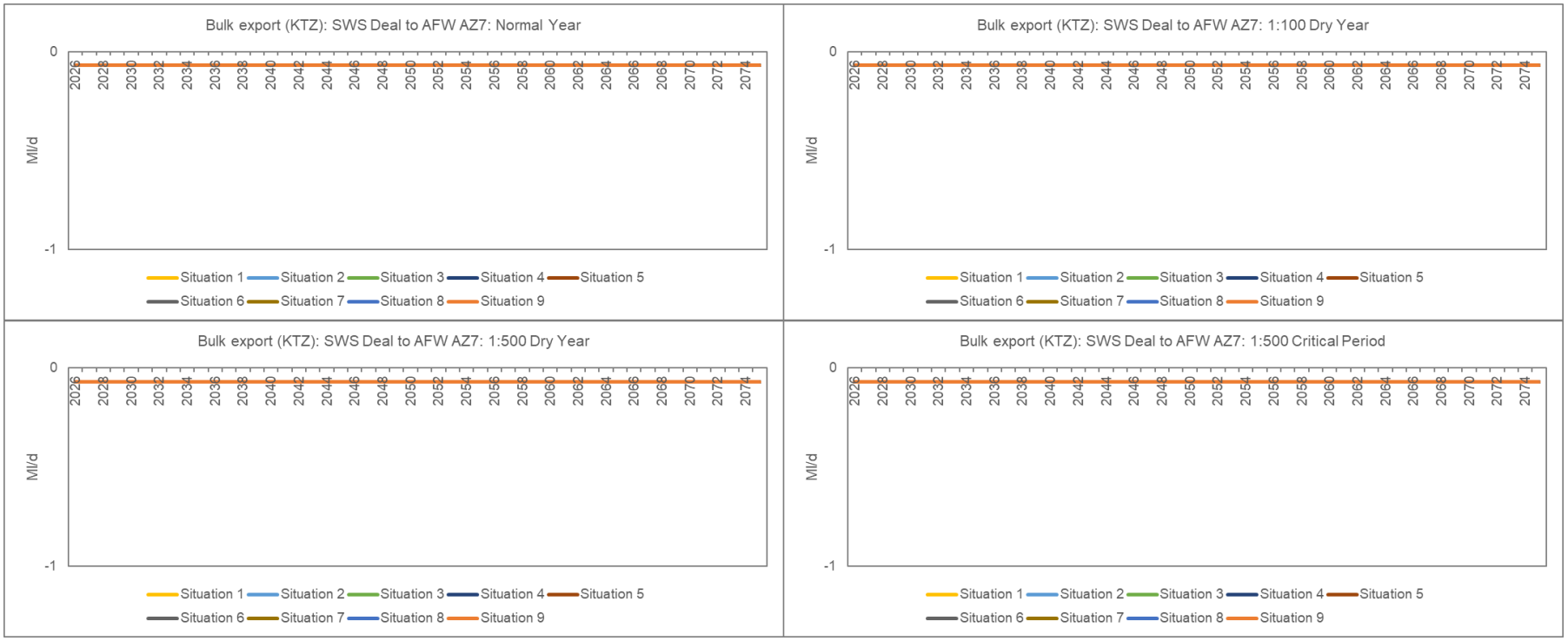

Figure 49: Utilisation of bulk export from KTZ to Affinity Water in each supply-demand situation under each planning scenario.

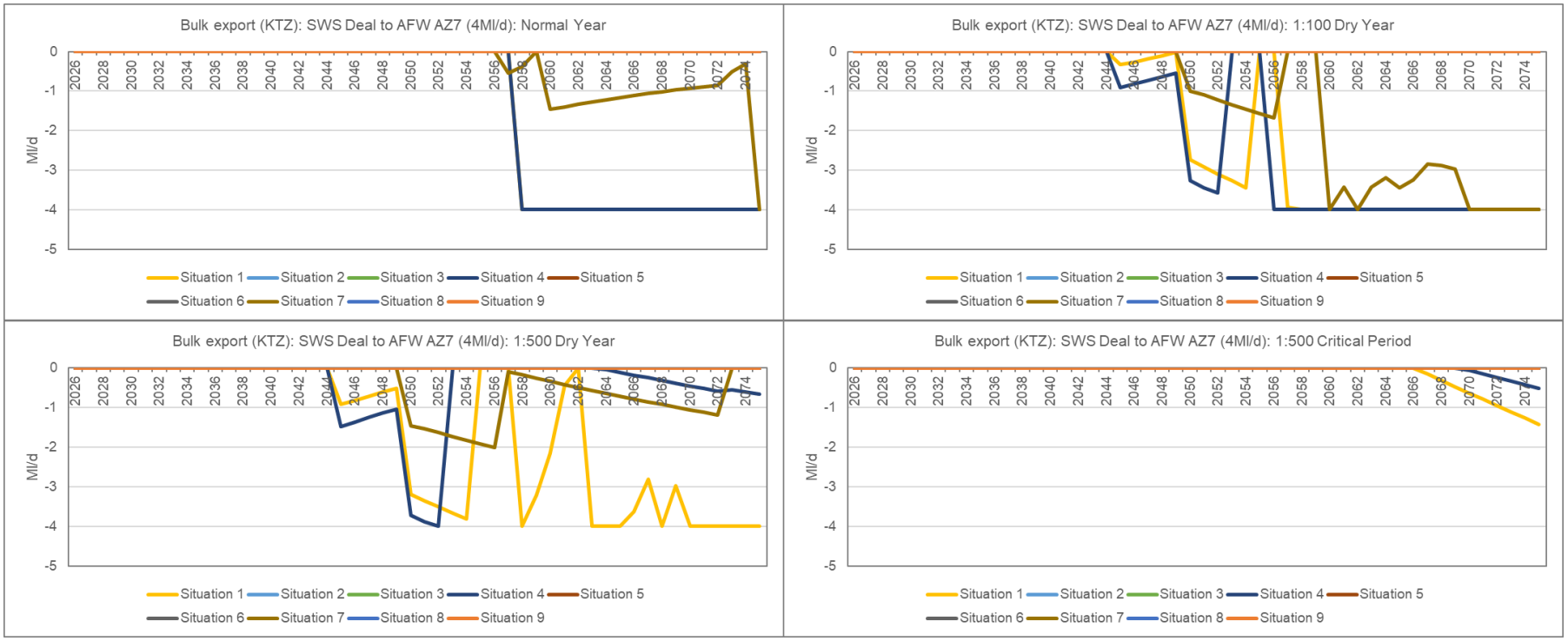

Figure 50: Utilisation of bulk export from KTZ to Affinity Water from Deal in each supply-demand situation under each planning scenario.

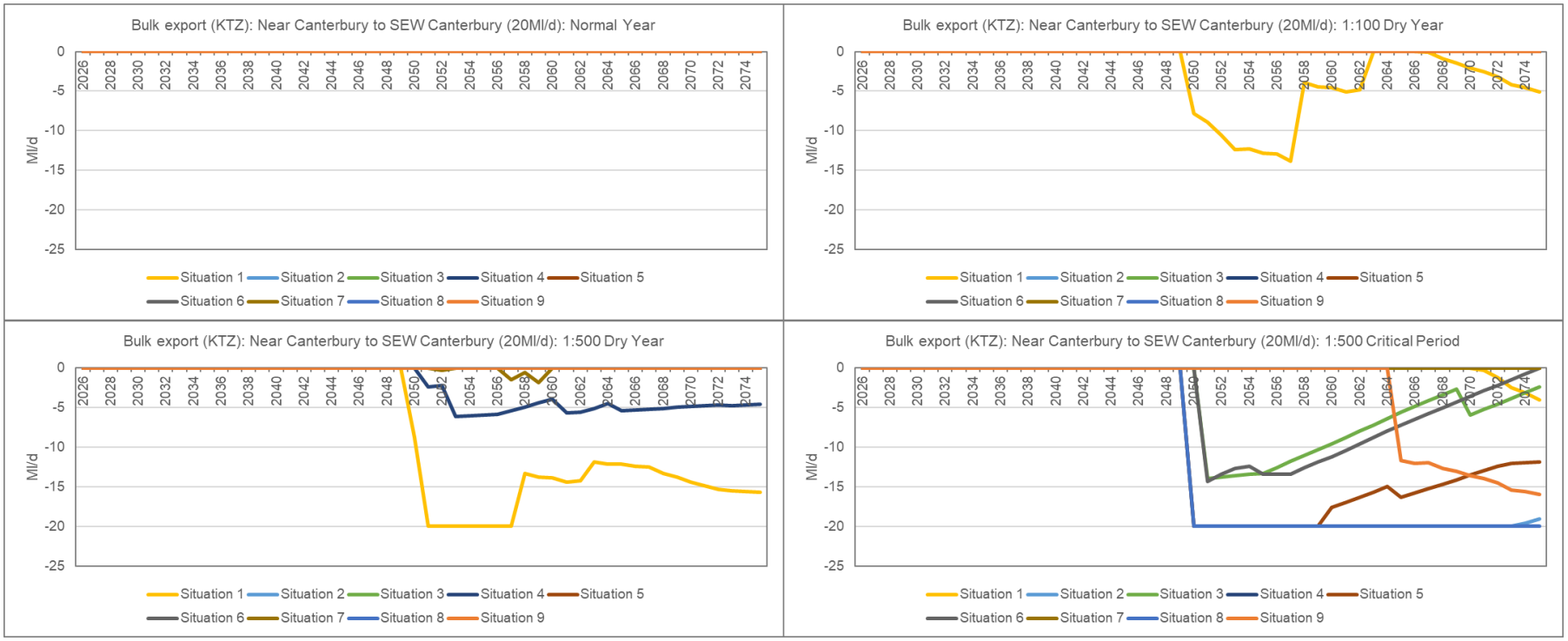

Figure 51: Utilisation of bulk export from KTZ to South East Water in each supply-demand situation under each planning scenario.

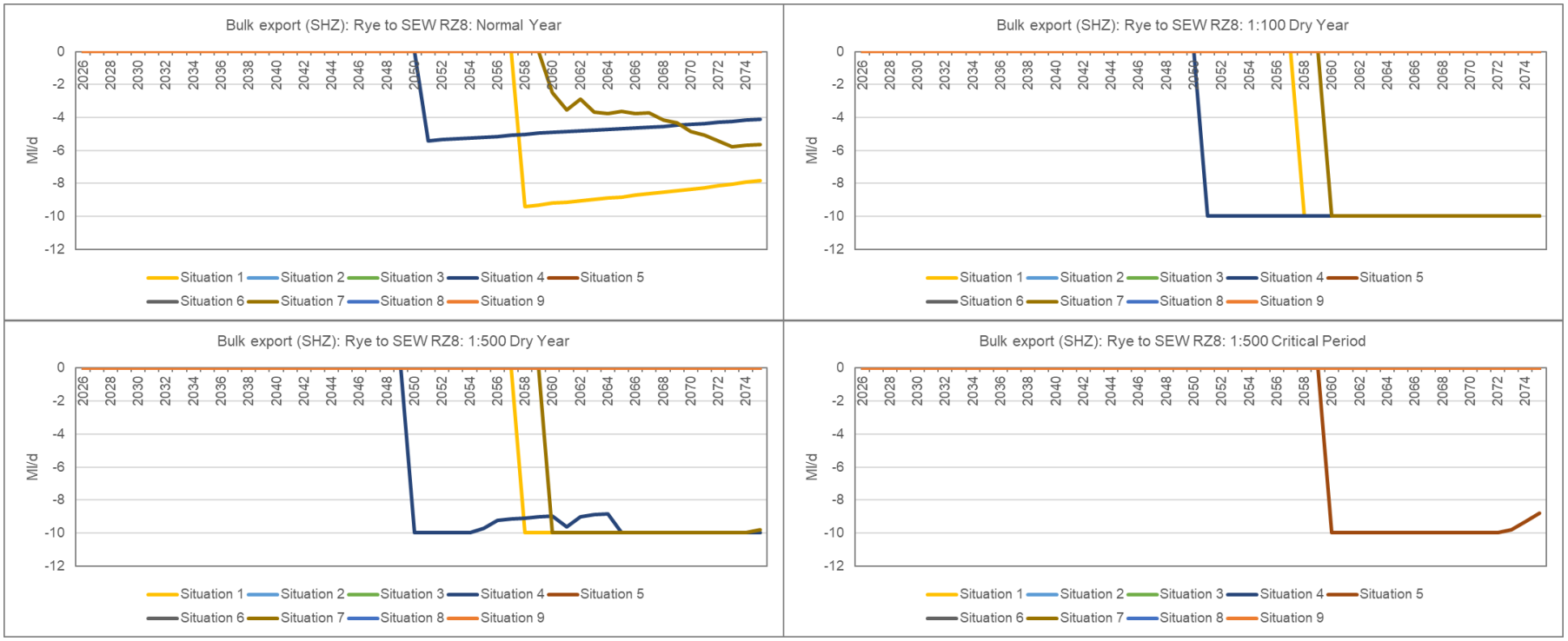

Figure 52: Utilisation of bulk export from SHZ to South East Water at Kingsnorth in each supply-demand situation under each planning scenario.

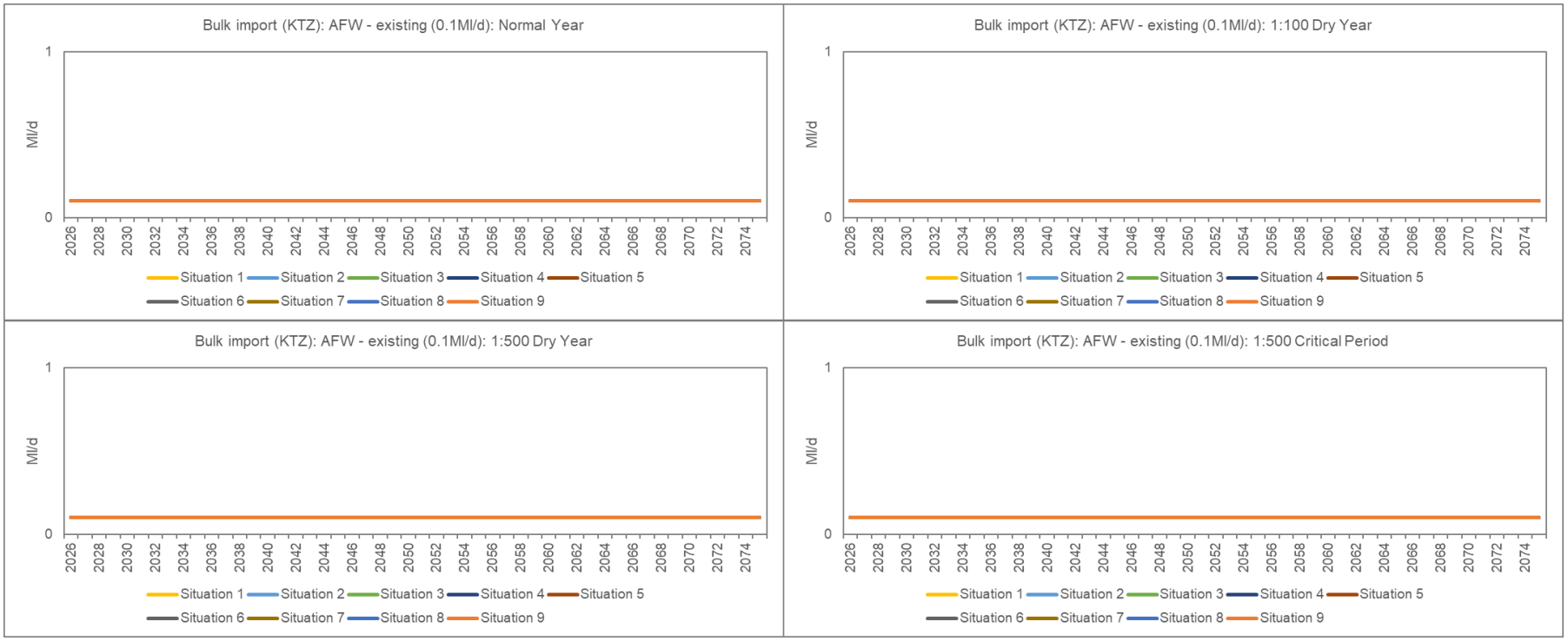

Figure 53: Utilisation of bulk import from Affinity Water to KTZ in each supply-demand situation under each planning scenario.

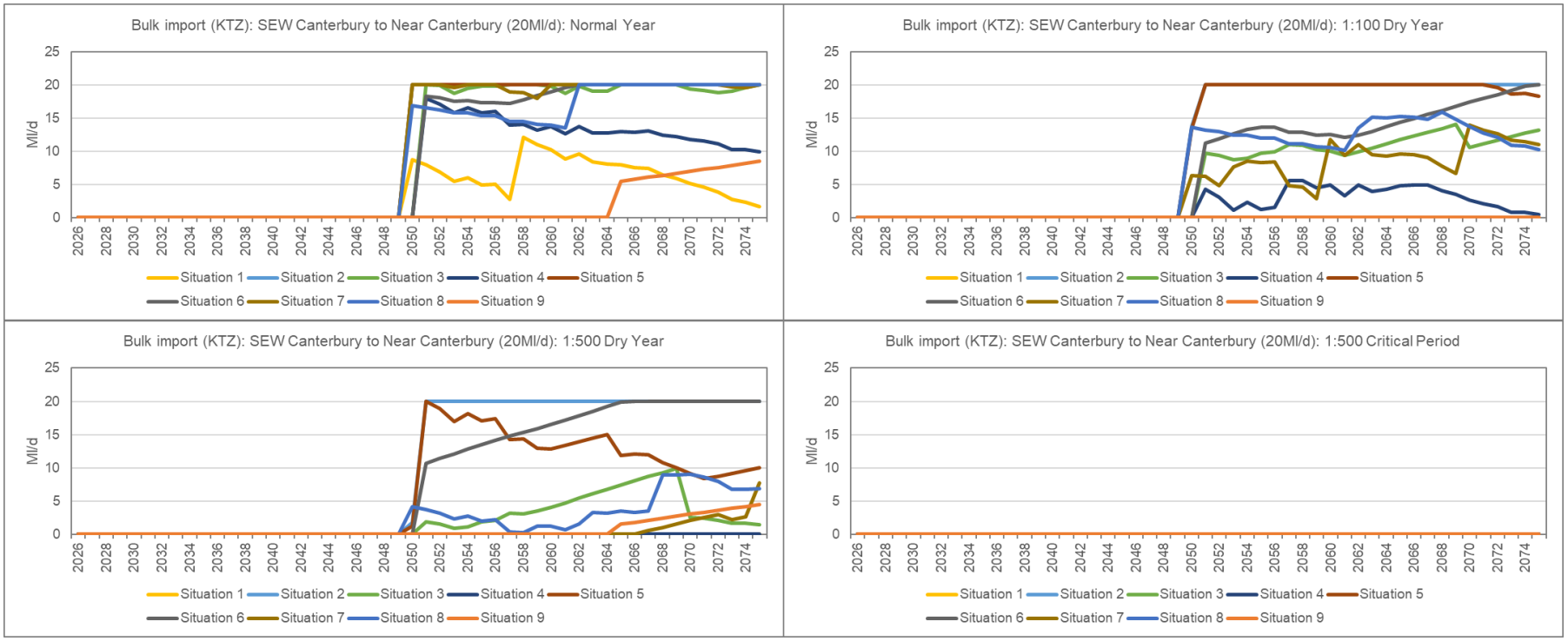

Figure 54: Utilisation of bulk import from South East Water to Near Canterbury in KTZ in each supply-demand situation under each planning scenario.

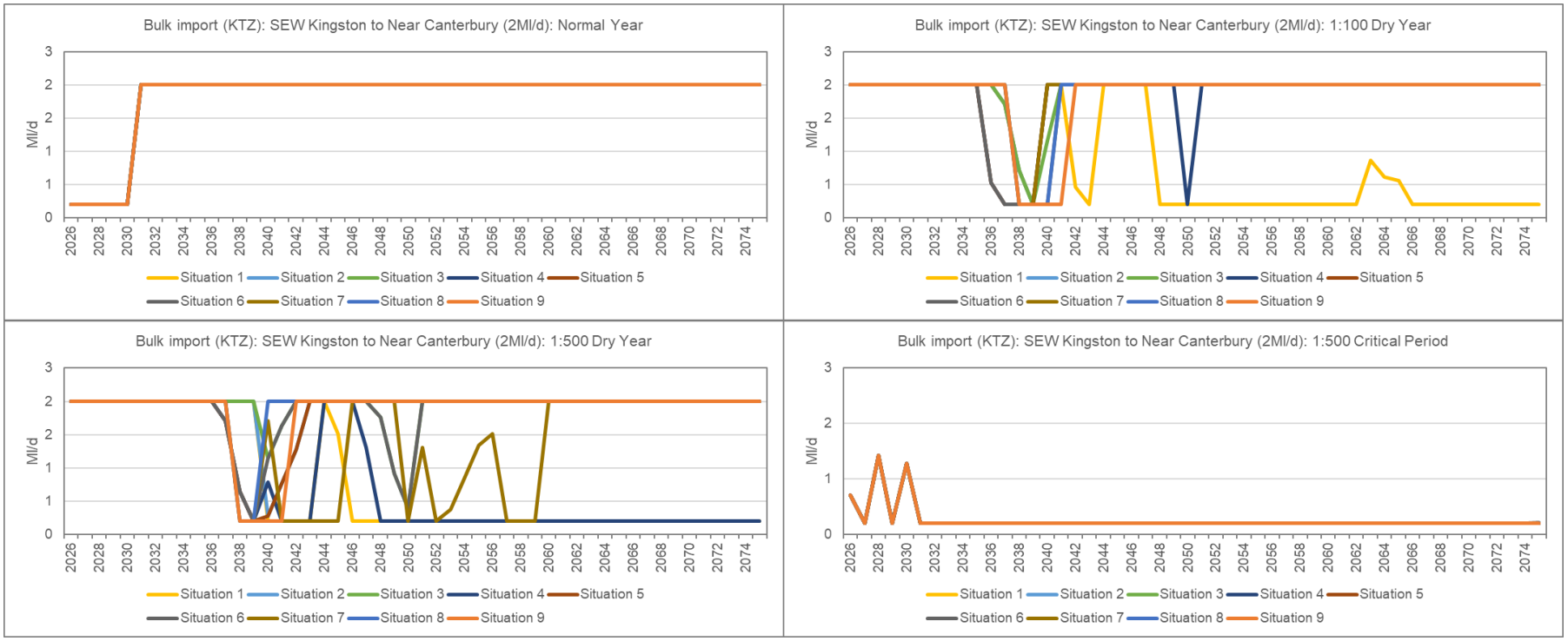

Figure 55: Utilisation of bulk import from South East Water near Kingston to KTZ in each supply-demand situation under each planning scenario.

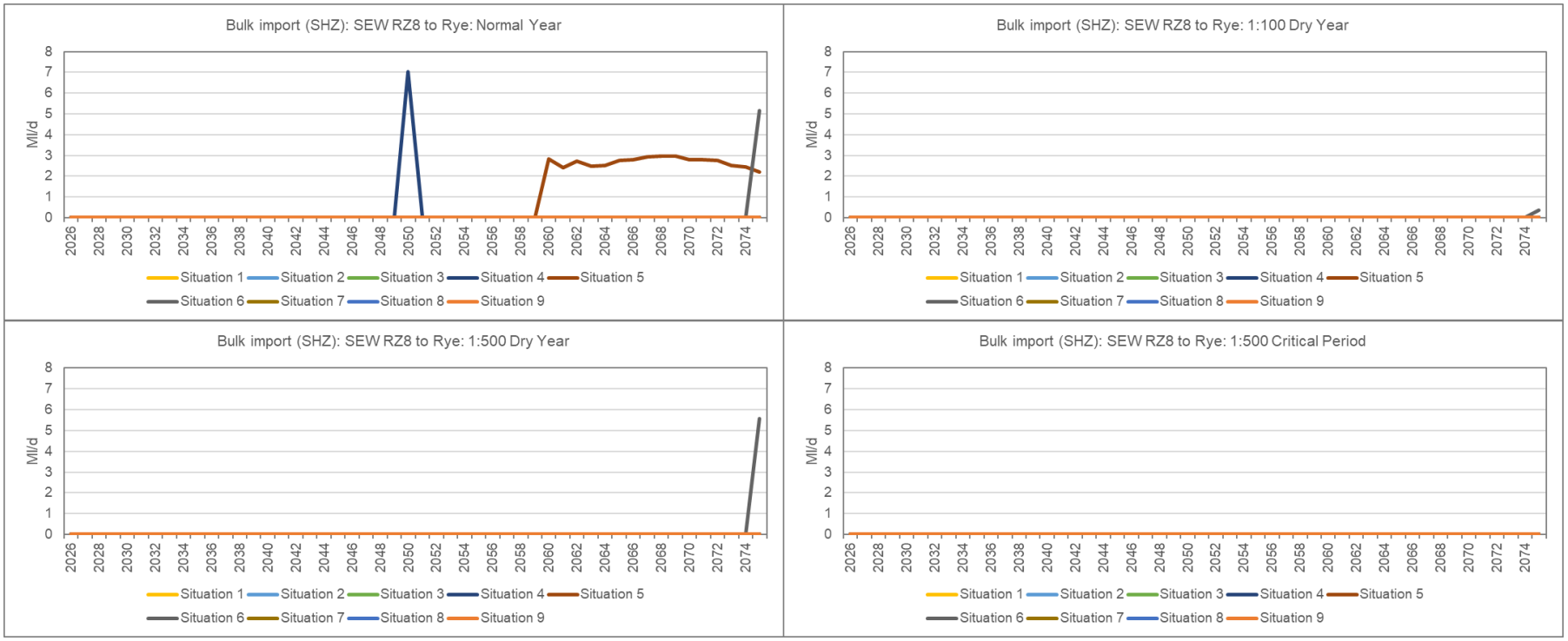

Figure 56: Utilisation of bulk import from South East Water to SHZ near Rye in each supply-demand situation under each planning scenario.

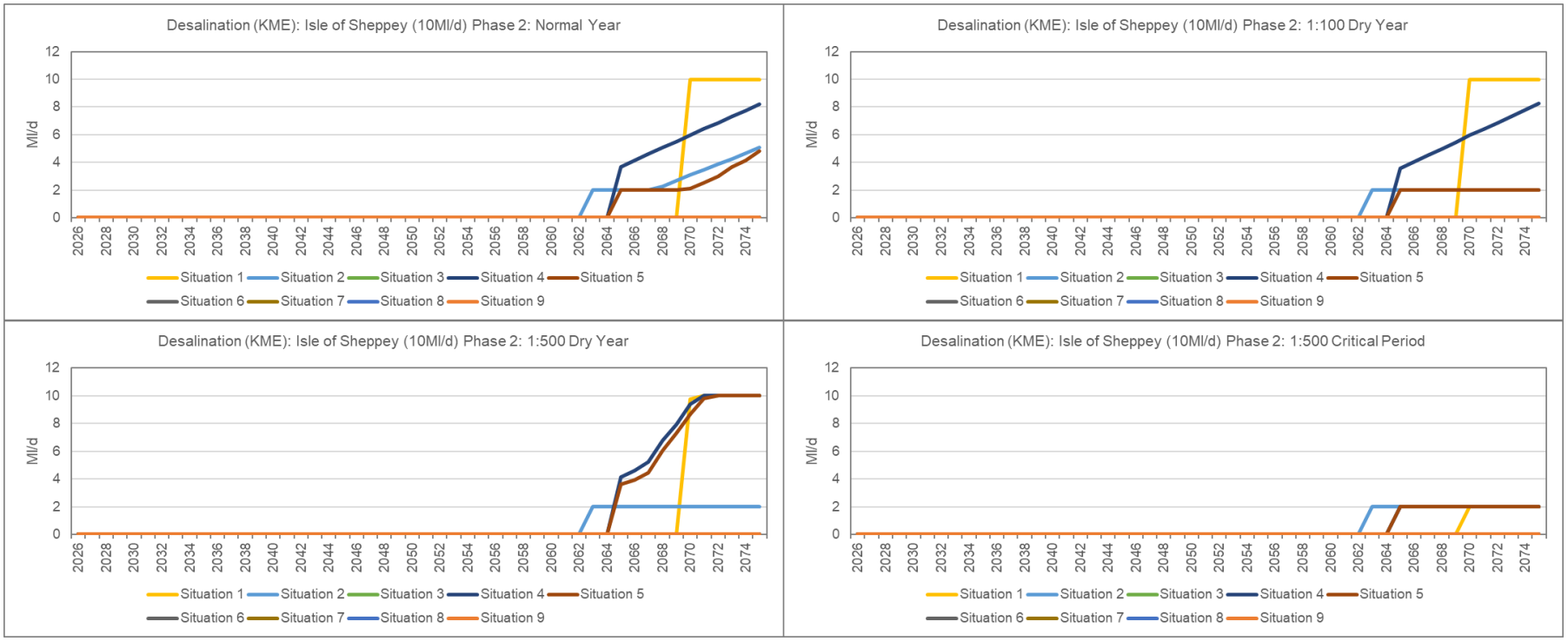

Figure 57: Utilisation of Isle of Sheppey desalination option (10Ml/d Phase 2) in KME in each supply-demand situation under each planning scenario.

Figure 58: Utilisation of Isle of Sheppey desalination option (20M/d) in KME in each supply-demand situation under each planning scenario.

Figure 59: Utilisation of Thames Estuary desalination option (10Ml/d) in KMW in each supply-demand situation under each planning scenario.

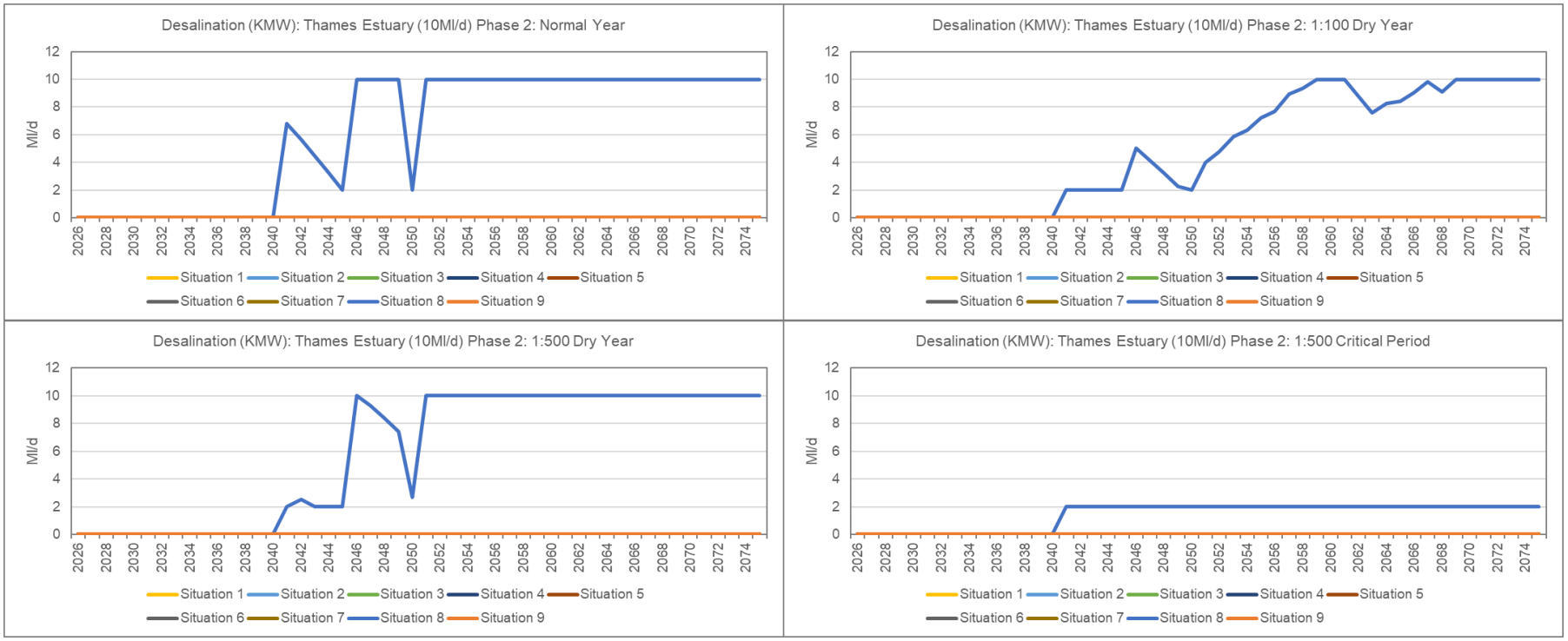

Figure 60: Utilisation of Thames Estuary desalination option (10Ml/d Phase 2) in KMW in each supply-demand situation under each planning scenario.

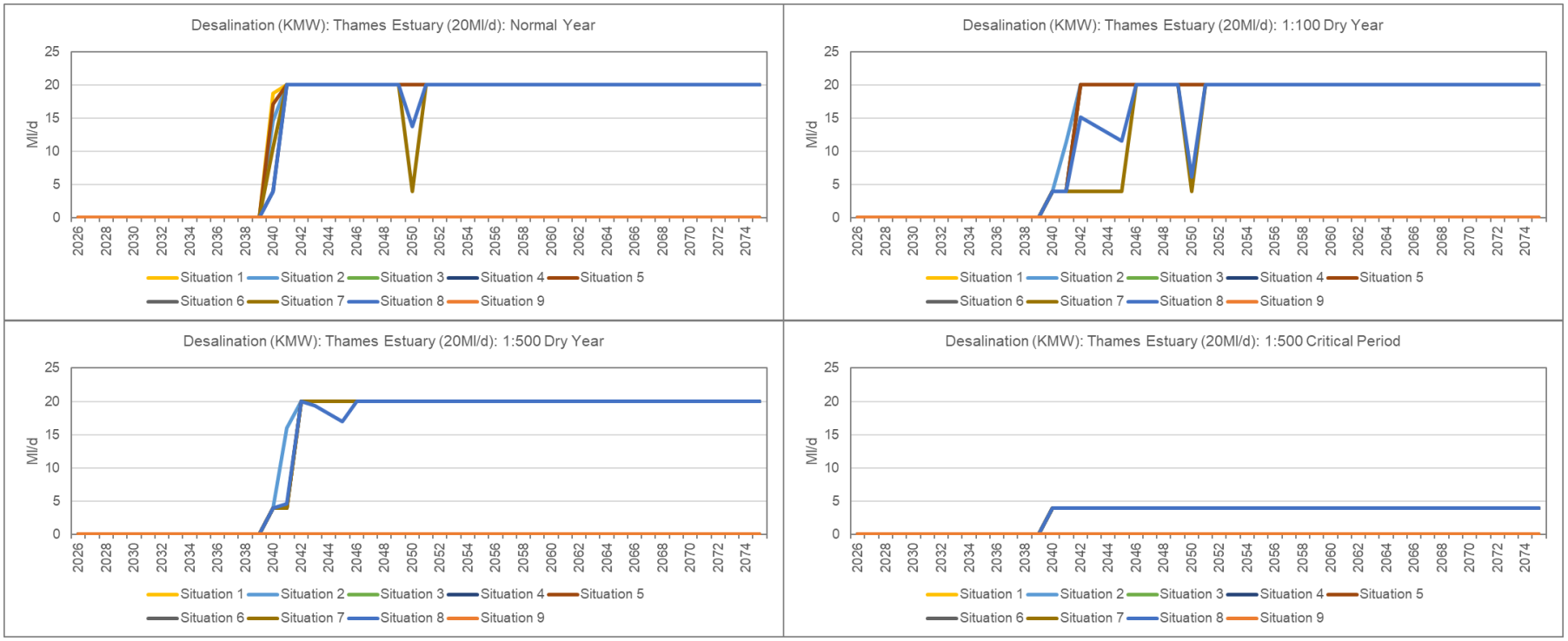

Figure 61: Utilisation of Thames Estuary desalination option (20Ml/d) in KMW in each supply-demand situation under each planning scenario.

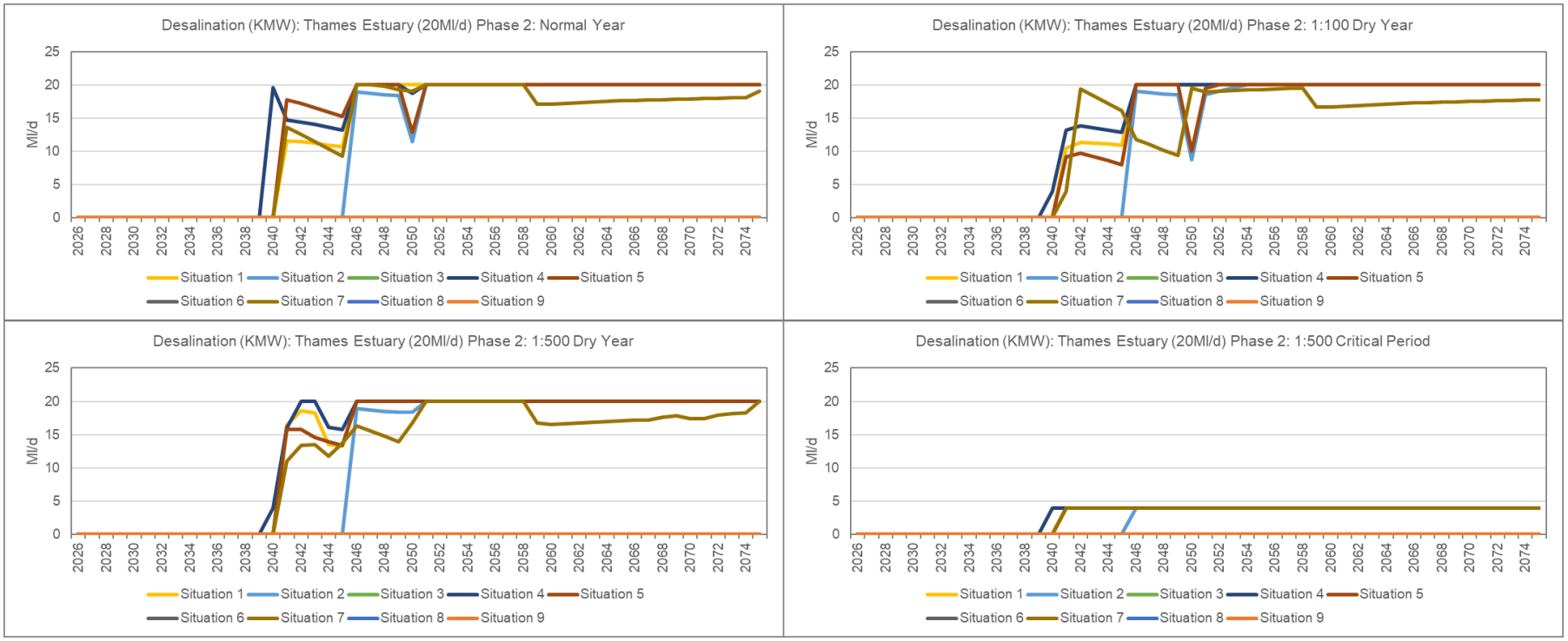

Figure 62: Utilisation of Thames Estuary desalination option (20Ml/d Phase 2) in KMW in each supply-demand situation under each planning scenario.

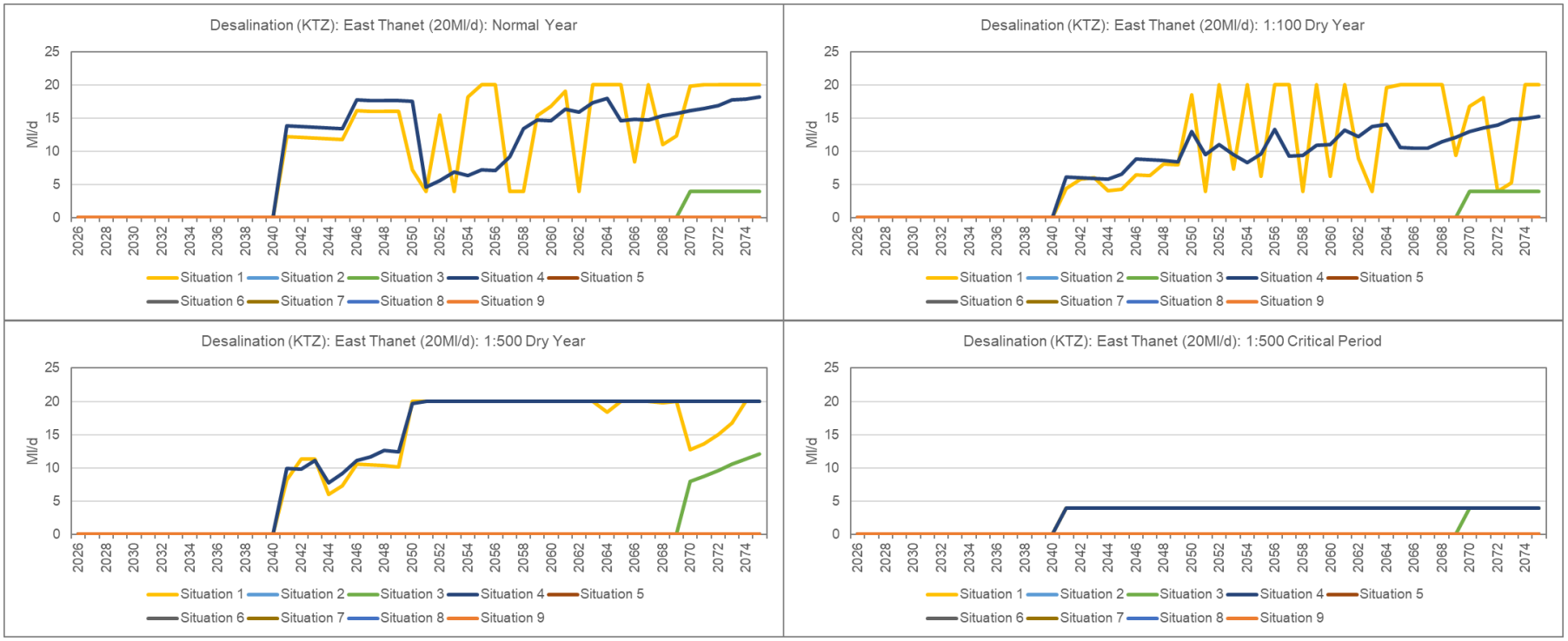

Figure 63: Utilisation of East Thanet desalination option (20Ml/d) in KTZ in each supply-demand situation under each planning scenario.

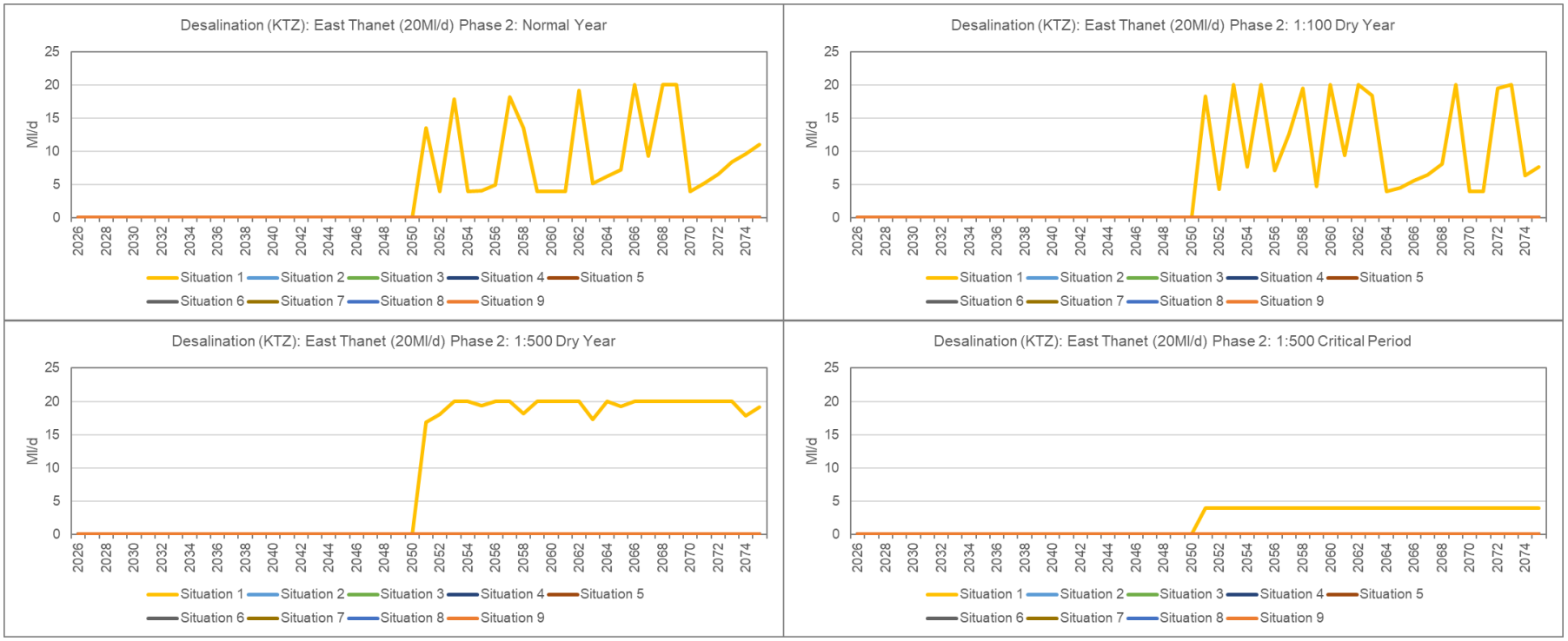

Figure 64: Utilisation of East Thanet desalination option (20Ml/d Phase 2) in KTZ in each supply-demand situation under each planning scenario.

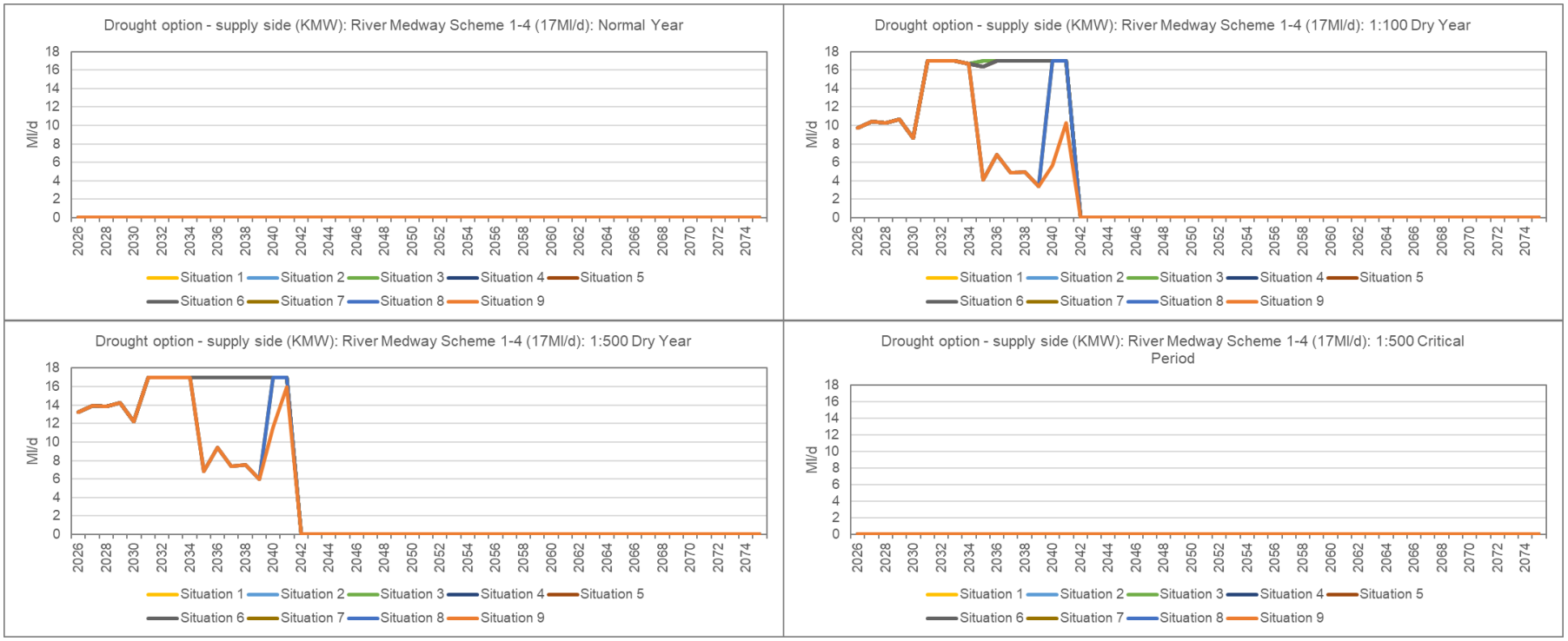

Figure 65: Utilisation of River Medway Scheme in KMW in each supply-demand situation under each planning scenario.

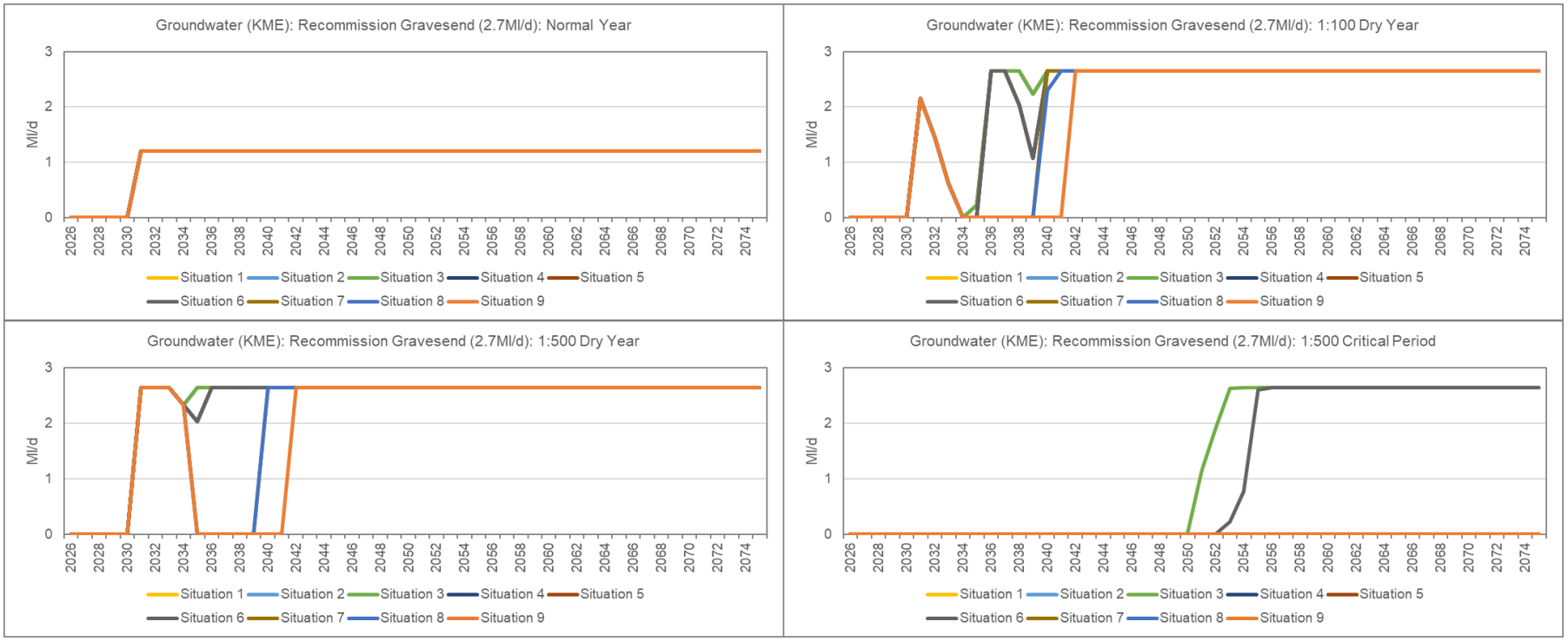

Figure 66: Utilisation of Gravesend groundwater option in KME in each supply-demand situation under each planning scenario.

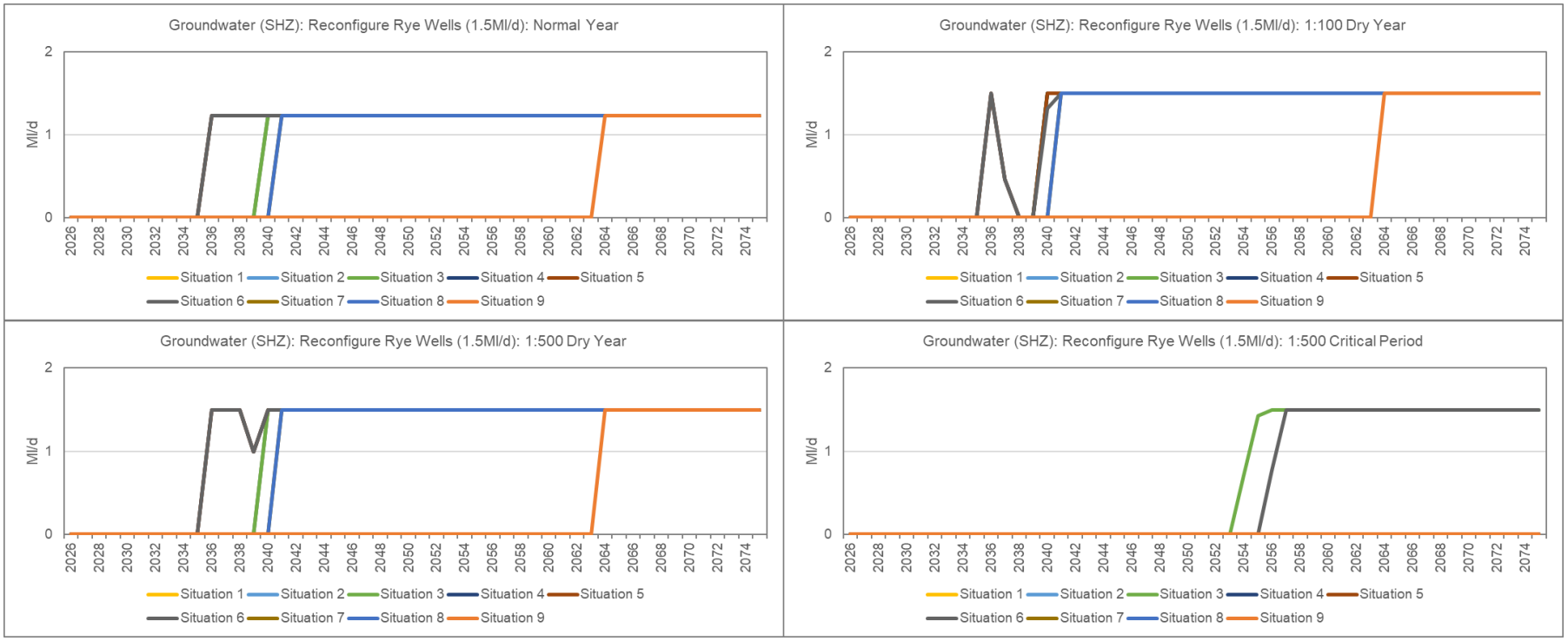

Figure 67: Utilisation of Rye Wells groundwater option in SHZ in each supply-demand situation under each planning scenario.

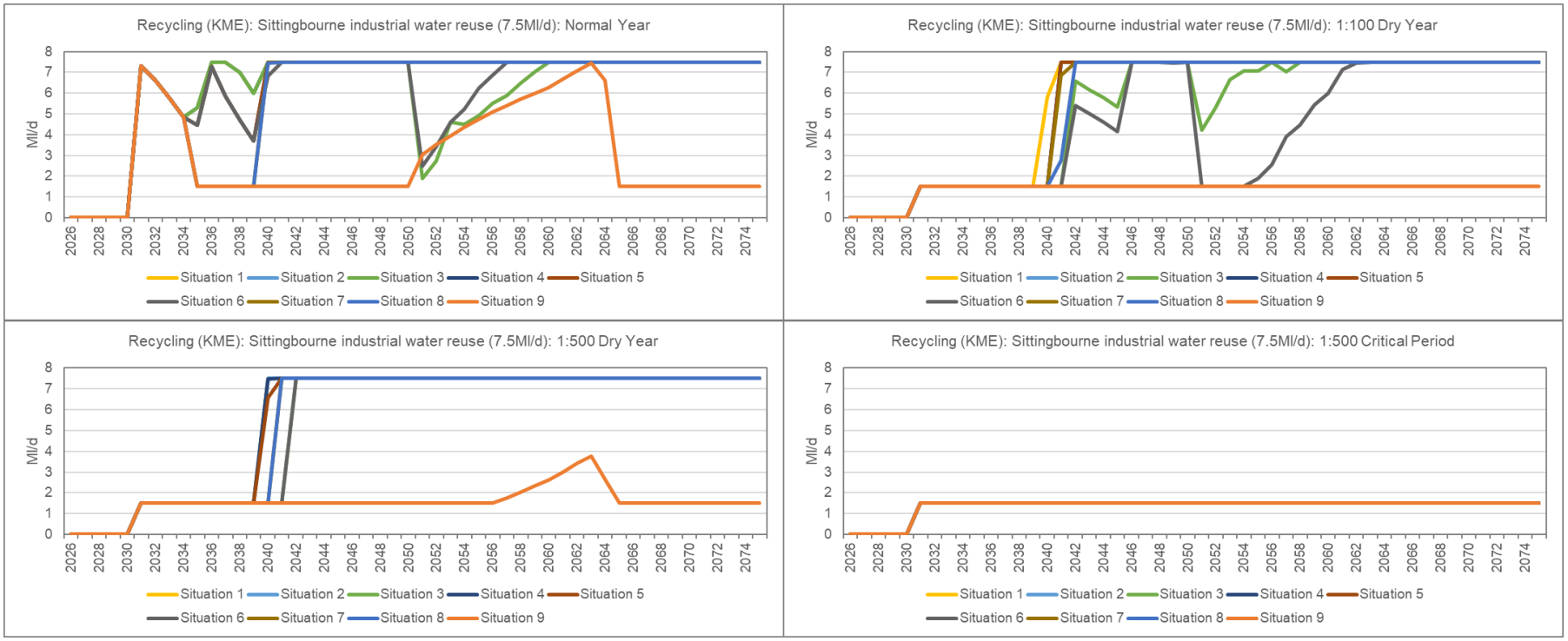

Figure 68: Utilisation of Sittingbourne industrial water reuse option in KME in each supply-demand situation under each planning scenario.

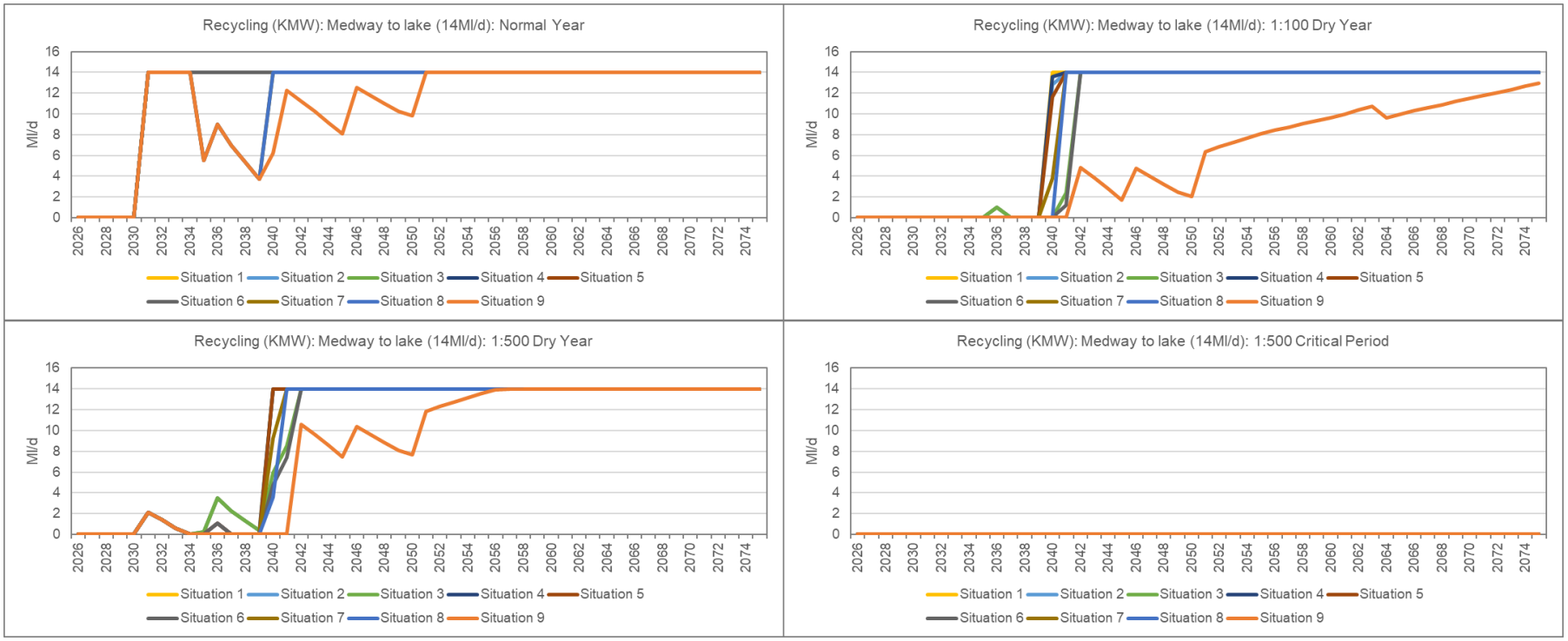

Figure 69: Utilisation of Medway recycling option in KMW in each supply-demand situation under each planning scenario.

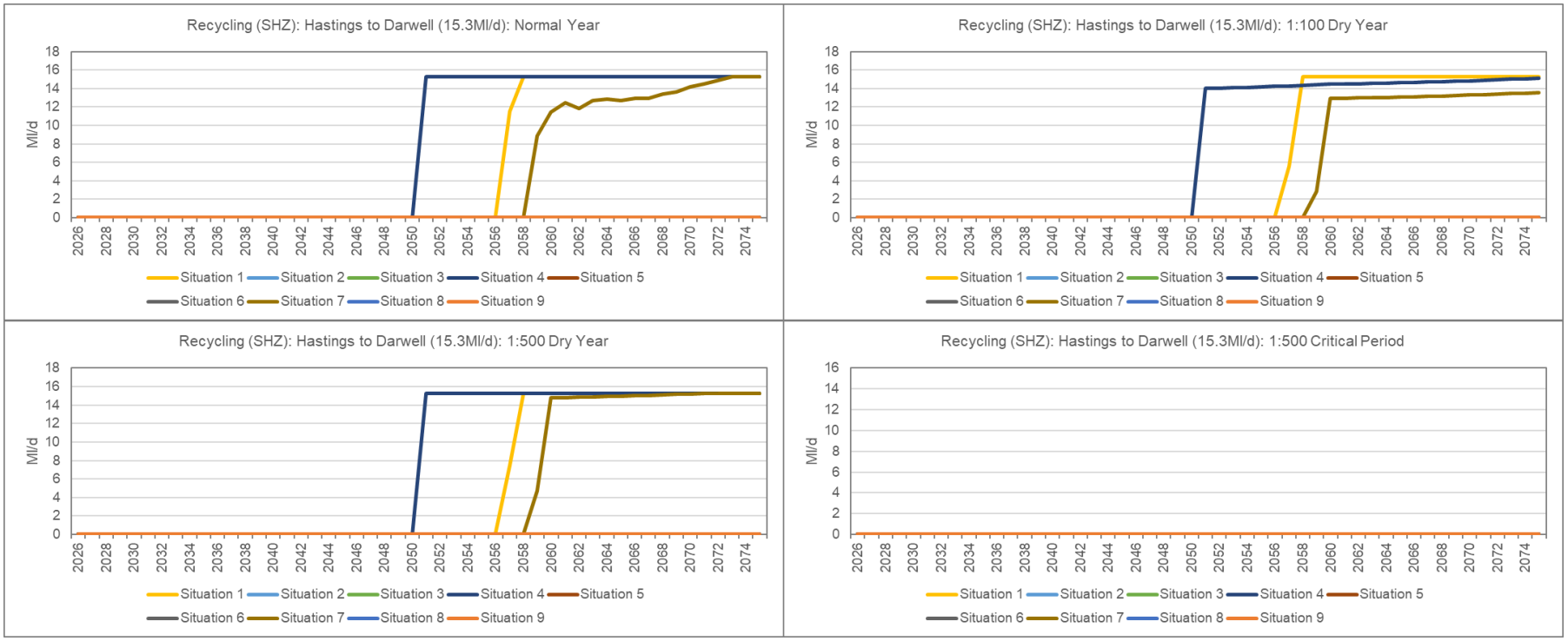

Figure 70: Utilisation of Hastings recycling option in SHZ in each supply-demand situation under each planning scenario.

Figure 71: Utilisation of Tonbridge recycling option in SHZ in each supply-demand situation under each planning scenario.

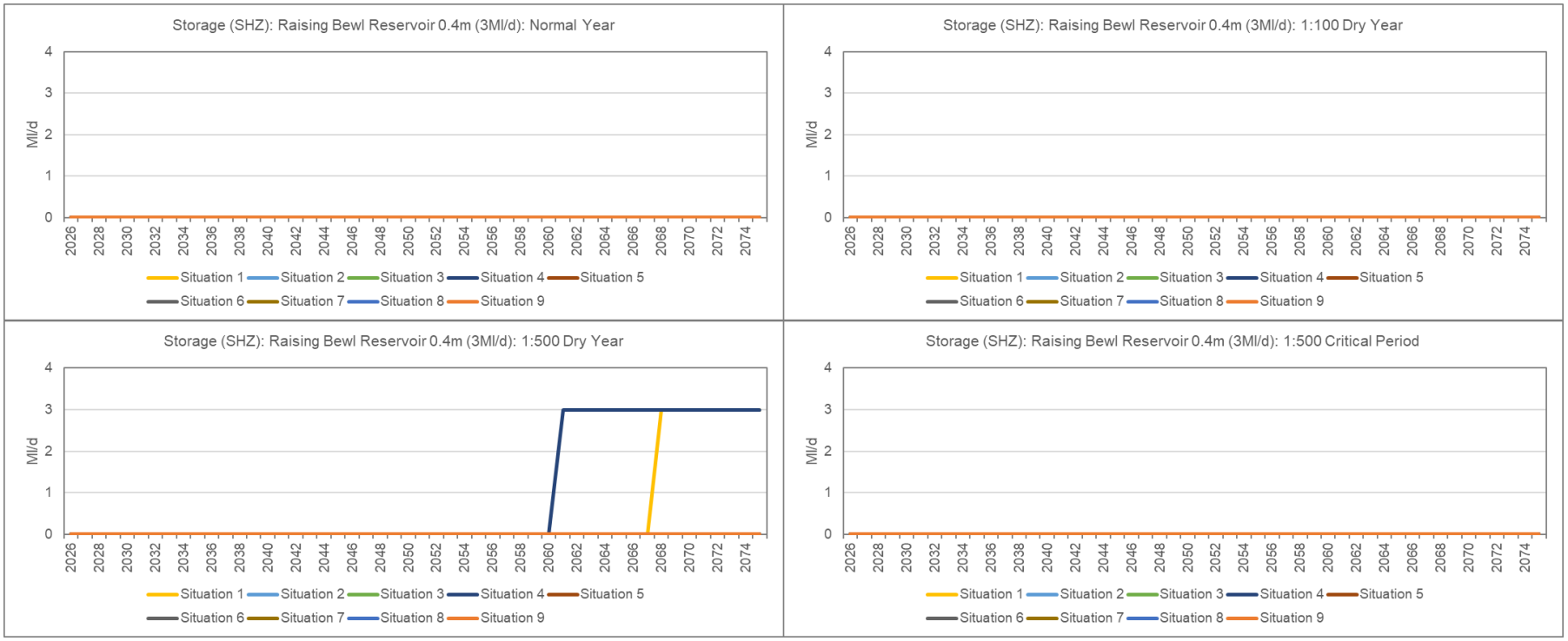

Figure 72: Utilisation of the option to raise Bewl Reservoir in SHZ by 0.4m in each supply-demand situation under each planning scenario.

3 Best Value Plan (excluding import of water via sea tankers)

3.1 Western area

3.1.1 Option selection and utilisation under the NYAA scenario

Table 25: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2041	2069	0	2041	2064	0	2042	0	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HAZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HKZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HKZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HRZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HRZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSE): Candover (22Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSE): Lower Itchen	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	0	0	0	2073	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2036	2036	2036	2036	2036	2036	2047	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	2040	0	0	2040	0	0	2040	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2050	0	0	0	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2040	2040	2053	2041	2040	2057	2042	2045	0
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	0	0	0	0	0	0	2040	0	0
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 26: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	1.6	0.0	45.0	2.3	0.0	42.0	0.0	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	12.3	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	60.0	46.8	28.1	60.0	47.3	27.8	60.0	32.5	27.8
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	1.0	1.0	11.7	1.0	1.1	14.4	1.0	12.8	10.4
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	95.0	18.0	18.0	90.1	18.0	18.0	77.2	18.0	14.3
Demand management (HAZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HKZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HRZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HRZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSE): Candover (22Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSE): Lower Itchen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSW): River Test (80Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	60.1	8.3	10.8	48.0	8.7	11.9	38.1	3.9	0.0
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.1	4.4	4.4	4.5	4.5	4.5	5.0	4.5	4.5
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	8.7	11.0	8.7	8.7	11.0	8.7	8.5	10.8	8.5
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.9	4.6	4.6	7.4	4.7	4.7	7.3	4.7	4.7
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	26.6	7.3	7.7	24.2	6.9	6.2	28.3	11.2	2.3
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour (60Ml/d)	60.0	60.0	28.1	60.0	60.0	27.8	60.0	38.5	27.8
Recycling (IOW): Sandown (8.5Ml/d)	8.5	6.8	1.6	8.5	6.3	1.6	8.5	1.6	1.6

3.1.2 Option selection and utilisation under the 1:100 DYAA scenario

Table 27: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2040	2044	0	2040	2043	0	2042	2069	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	2037	2037	2037	2037	2037	2037	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	0	0	0	2073	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2036	2036	2036	2036	2036	2036	2047	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	2063	2050	2036	0	0	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 28: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	14.2	0.0	45.0	14.9	0.0	45.0	4.2	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	13.7	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	95.0	49.5	18.0	89.7	49.8	18.0	83.3	32.8	18.0
Demand management (HAZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HKZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HRZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSE): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (HSW): NEUBs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HWZ): NEUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (IOW): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - supply side (HSE): Candover (22Ml/d)	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
Drought option - supply side (HSE): Lower Itchen	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
Drought option - supply side (HSW): River Test (80Ml/d)	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	24.4	22.3	22.3	21.5	21.5	21.5	26.6	26.6	26.6
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.8	4.8	4.8	7.2	4.8	4.8	7.1	4.9	4.9
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	60.0	39.7	33.9	57.0	40.5	33.6	54.5	37.7	37.6
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour (60Ml/d)	60.0	52.3	23.9	60.0	51.3	20.0	44.3	40.0	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.4

3.1.3 Option selection and utilisation under the 1:500 DYAA scenario

Table 29: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2040	2040	0	2040	2040	0	2040	2041	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	0	0	0	2073	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2042	2042	2042	2042	2042	2042	2047	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	2068	0	0	2050	2052	0	0	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2035	2035	2035	2036	2036	2036	2036	2036	2036
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 30: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	18.9	0.0	45.0	21.9	0.0	45.0	17.4	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	6.9	0.0	0.0	5.0	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	8.2	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	90.0	90.0	74.5	90.0	90.0	74.8	90.0	90.0	57.3
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	74.1	27.7	18.0	64.1	30.3	18.0	56.9	19.5	18.0
Demand management (HAZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HKZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HRZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSE): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (HSW): NEUBs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HWZ): NEUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (IOW): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - supply side (HSE): Candover (22Ml/d)	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
Drought option - supply side (HSE): Lower Itchen	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
Drought option - supply side (HSW): River Test (80Ml/d)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	21.8	21.8	21.8	21.8	21.8	21.8	21.8	22.9	21.8
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	15.4	12.4	9.4	15.5	12.4	9.4	15.2	12.1	9.1
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.8	4.2	3.4	7.2	4.2	3.4	7.1	4.1	3.3
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	58.0	30.1	33.9	47.4	29.6	33.4	37.4	39.0	37.9
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour (60Ml/d)	60.0	60.0	32.6	60.0	60.0	21.5	59.8	40.0	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.5	1.6	8.5	8.5	1.6	8.5	8.5	1.6

3.1.4 Option selection and utilisation under the 1:500 DYCP scenario

Table 31: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	2040	0	0	2040	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	0	0	0	2073	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2042	2042	2042	2042	2042	2042	2047	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2050	0	0	0	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2042	2042	2042	2042	2042	2042	2042	2042	2042
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2040	2042	2042	2040	2042	2042	2040	2042	2042
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 32: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	7.8	0.0	0.0	4.6	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	11.5	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	69.0	61.1	58.6	69.0	61.9	59.4	69.0	52.5	46.0
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	56.8	16.6	18.0	47.5	15.7	18.0	43.8	18.0	18.0
Demand management (HAZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (HKZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): NEUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - demand side (HRZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): NEUBs	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
Drought option - demand side (HSW): NEUBs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Drought option - demand side (HWZ): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (IOW): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Drought option - supply side (HSE): Candover (22Ml/d)	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
Drought option - supply side (HSE): Lower Itchen	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
Drought option - supply side (HSW): River Test (80Ml/d)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	16.9	16.9	16.9	16.9	16.9	16.9	20.0	16.9	16.9
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.4	5.0	5.0	4.9	5.0	5.0	4.9	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	18.0	4.4	4.4	18.0	4.4	4.4	18.0	4.4	4.4
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	10.6	3.2	5.5	9.9	2.1	4.4	9.8	1.3	7.3
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	45.0	27.5	27.5	39.8	27.0	27.0	43.5	30.7	30.6
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour (60Ml/d)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	1.6	1.6	8.5	1.6	1.6	8.5	1.6	1.6

3.2 Centra area

3.2.1 Option selection and utilisation under the NYAA scenario

Table 33: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2046	2071	2041	2052	0	2041	2065	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2040	2040	2041	2040	2041	2051	2040	2041	2070
Bulk import (SNZ): SES re-zoning (4Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2054	0	2040	2040	2040	2040	2040	2046
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (20Ml/d)	2046	0	0	2046	0	0	2050	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2047	0	0	2050	0	0	2051	0	0
Drought option - demand side (SBZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SBZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): NEUBs	0	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (SWZ): East Worthing (2.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2040	2041	2051	2040	2041	2064	2040	2041	0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2041	0	0	2041	0	0	2041	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2040	0	2040	2040	0	2040	2040	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2041	0	0	2041	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	2061	0	0	2073	0	0	2068	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2042	0	0	2046	0	0	2046	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2040	0	0	2041	0	0	2040	0	0

Table 34: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	33.0	16.3	3.2	22.8	15.4	0.0	18.7	6.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	2.2
Bulk import (SNZ): SES re-zoning (4Ml/d)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (20Ml/d)	20.0	0.0	0.0	20.0	0.0	0.0	20.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	20.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SWZ): East Worthing (2.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	16.7	0.0	0.0	10.9	0.0	0.0	4.6	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	37.4	26.7	0.0	29.7	25.9	0.0	30.0	18.3	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	13.0	11.4	13.0	13.0	12.5	13.0	13.0	11.2
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	17.0	12.5	17.0	17.0	11.3	17.0	17.0	12.5
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	12.8	15.0	15.0	12.1	15.0	15.0	11.2
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	7.2	15.0	15.0	3.0
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

3.2.2 Option selection and utilisation under the 1:100 DYAA scenario

Table 35: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2040	2069	2041	2042	0	2041	2046	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2034	2034	2034	2034	2034	2034	2034	2034	2034
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2054	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (20Ml/d)	2046	0	0	2046	0	0	2050	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2047	0	0	2050	0	0	2051	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (SWZ): East Worthing (2.5Ml/d)	2041	0	0	0	0	0	2040	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2051	0	0	0	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2041	0	2040	2041	0	2040	2041	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2062	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2032	2032	2032	2031	2031	2031	2031	2031	2031
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	2061	0	0	2073	0	0	2068	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2042	0	0	2046	0	0	2046	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2040	0	0	2041	0	0	2040	0	0

Table 36: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	37.7	32.3	3.9	29.2	31.3	0.0	24.3	20.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (20Ml/d)	10.1	0.0	0.0	5.1	0.0	0.0	4.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	11.3	0.0	0.0	4.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drought option - demand side (SNZ): NEUBs	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Drought option - demand side (SWZ): NEUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SWZ): East Worthing (2.5Ml/d)	2.5	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	28.6	16.2	0.0	20.1	15.2	0.0	18.1	7.5	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	12.8	5.7	13.0	13.0	6.4	13.0	10.4	6.4
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	16.0	6.4	17.0	15.9	5.5	17.0	9.5	5.7
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	10.0	15.0	15.0	9.8	15.0	15.0	9.8
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	13.7	15.0	15.0	10.7
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	6.8	0.0	0.0	4.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

3.2.3 Option selection and utilisation under the 1:500 DYAA scenario

Table 37: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	2040	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2041	2042	2041	2042	2069	2041	2042	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2034	2034	2034	2034	2034	2034	2034	2034	2034
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2054	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (20Ml/d)	2046	0	0	2046	0	0	2050	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2047	0	0	2050	0	0	2051	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (SWZ): East Worthing (2.5Ml/d)	2041	0	0	0	0	0	2040	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2041	0	0	2074	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2040	0	2040	2040	0	2040	2041	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2051	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2032	2032	2032	2036	2036	2036	2031	2031	2031
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	2061	0	0	2073	0	0	2068	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2042	0	0	2046	0	0	2046	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2040	0	0	2041	0	0	2040	0	0

Table 38: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	40.0	40.0	12.6	40.0	40.0	1.5	39.8	20.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (20Ml/d)	20.0	0.0	0.0	14.9	0.0	0.0	4.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	4.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drought option - demand side (SNZ): NEUBs	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Drought option - demand side (SWZ): NEUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SWZ): East Worthing (2.5Ml/d)	2.5	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	6.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	31.0	18.5	0.0	22.8	17.5	0.0	20.8	9.7	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	13.0	6.7	13.0	13.0	4.2	13.0	12.5	7.3
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	17.0	7.3	17.0	17.0	7.3	17.0	12.0	6.8
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	11.3	15.0	15.0	11.0	15.0	15.0	11.0
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	12.3
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	6.8	0.0	0.0	4.5	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

3.2.4 Option selection and utilisation under the 1:500 DYCP scenario

Table 39: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2043	0	0	0	0	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (20Ml/d)	2046	0	0	2046	0	0	2050	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2047	0	0	2050	0	0	2051	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2036	2036	2036	2036	2036	2036	2036	2036	2036
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2040	2040	2040	2040	2040	0	0	0	0
Drought option - supply side (SWZ): East Worthing (2.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2051	2042	2042	2074	2042	2070	0	0	0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2042	0	0	2042	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	0	0	0	0	0	0	0	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2066	0	0	0	0	0	0	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0	0	0	0	0	0	0	0	0

Table 40: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	0.6	3.1	0.7
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	7.7	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (20Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Drought option - demand side (SNZ): NEUBs	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Drought option - demand side (SWZ): NEUBs	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	8.9	2.4	2.3	1.2	1.5	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SWZ): East Worthing (2.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	0.2	4.0	2.4	0.0	0.0	0.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	8.8	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	9.6	9.8	15.0	10.5	10.8	15.0	11.7	12.0
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	3.0	7.5	7.3	3.0	6.4	3.0	3.0	3.0	3.0
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3.3 Eastern area

3.3.1 Option selection and utilisation under NYAA scenario

Table 41: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2058	0	0	2058	0	0	2057	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SHZ): Rye to SEW RZ8	2058	0	0	2051	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	2050	2050	2051	2051	2050	2051	2050	2050	2065
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SHZ): SEW RZ8 to Rye	0	0	0	2050	2060	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KME): Isle of Sheppey (20Ml/d)	2046	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2041	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	0	2070	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KME): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KME): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	2040	2040	0	2040	2040	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2057	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	2036	2036	2036	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 42: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	9.4	0.0	0.0	5.4	0.0	0.0	5.8	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	12.1	20.0	20.0	17.9	20.0	20.0	20.0	20.0	8.5
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk import (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	7.0	3.0	5.2	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	5.1	0.0	8.2	4.8	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	18.0	16.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	6.0	0.0	0.0	9.5	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	4.0	18.2	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	3.5	15.8	6.6	3.5	15.8	3.9	13.7	14.0	3.5
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	42.5	44.7	26.2	42.9	41.8	23.2	44.7	40.1	22.1
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	6.6	6.6	6.6	7.2	6.6	6.6	8.8	6.6	6.6
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	13.2	14.0	14.0	12.7	14.0	14.0	10.7
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.9	3.3	0.0	2.5	2.8	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.3	0.0	0.0	15.3	0.0	0.0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	5.7	3.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3.3.2 Option selection and utilisation under 1:100 DYAA scenario

Table 43: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	0	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2045	0	0	2045	0	0	2050	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2050	0	0	0	0	0	0	0	0
Bulk export (SHZ): Rye to SEW RZ8	2058	0	0	2051	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	2050	2051	2051	2050	2051	2050	2050	0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SHZ): SEW RZ8 to Rye	0	0	0	0	0	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2046	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2041	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	0	2070	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	0	0	0	0	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2036	2036	2036	2040	2040	2041	2040	2041	2042
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2057	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	2041	2041	2046	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 44: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	20.0	14.0	5.6	20.0	20.0	13.9	15.9	0.0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk import (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	2.0	0.0	8.3	2.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	12.0	0.0	20.0	14.7	0.0	14.4	11.6	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	2.2	0.0	0.0	2.3	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	19.5	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	4.0	15.2	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (KMW): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (KTZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	1.4	9.3	7.9	1.4	8.8	11.4	3.7	4.5	1.4
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	44.7	44.7	23.3	40.5	42.0	20.2	44.7	37.4	23.7
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	6.6	14.0	14.0	6.5	14.0	14.0	3.8
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	1.5
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	12.9
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.1	0.0	0.0	13.6	0.0	0.0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	5.5	3.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3.3.3 Option selection and utilisation under 1:500 DYAA scenario

Table 45: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2045	0	0	2045	0	0	2050	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2050	0	0	2051	0	0	2052	0	0
Bulk export (SHZ): Rye to SEW RZ8	2058	0	0	2050	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	2050	2051	0	2050	2051	2066	2050	2065
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SHZ): SEW RZ8 to Rye	0	0	0	0	0	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	2058	2058	2058	2058	2058	2058	2058	2058	2058
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2046	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2041	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	0	2070	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	2050	2040	0	2040	2040	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2057	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	2040	2040	2042	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	2068	0	0	2061	0	0	0	0	0

Table 46: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	7.4	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	2.1	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	20.0	0.0	0.0	6.1	0.0	0.0	1.8	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	20.0	9.9	0.0	20.0	20.0	7.7	9.0	4.5
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk import (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	2.0	0.0	10.0	10.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	16.1	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	10.0	0.0	0.0	9.4	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	12.1	20.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (KMW): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (KTZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	0.0	11.2	2.5	0.0	10.7	9.9	11.2	8.1	1.0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	44.7	44.7	30.5	42.9	40.0	24.3	44.7	37.3	22.6
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	7.3	7.3	7.3	15.7	7.3	7.3	7.3	7.3	7.3
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	10.1	14.0	14.0	9.6	14.0	14.0	5.8
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	1.6	2.9	0.0	1.0	2.4	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	3.8
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.3	0.0	0.0	15.3	0.0	0.0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	5.7	5.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0

3.3.4 Option selection and utilisation under 1:500 DYAA scenario

Table 47: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	0	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2067	0	0	2070	0	0	0	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2071	2050	2051	0	2050	2051	0	2050	2065
Bulk export (SHZ): Rye to SEW RZ8	0	0	0	0	2060	0	0	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SHZ): SEW RZ8 to Rye	0	0	0	0	0	0	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2046	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2041	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	0	2070	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	0	0	2051	0	0	2053	0	0	0
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	0	0	2054	0	0	2056	0	0	0
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2058	2050	2048	2072	2050	0	0	2059	0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	0	0	0	0	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	0	0	0	0	0	0	0	0	0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	0	0	0	0	0	0	0	0	0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	0	0	0	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 48: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Best Value Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	1.4	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	4.0	20.0	13.9	0.0	20.0	14.3	0.0	20.0	16.0
Bulk export (SHZ): Rye to SEW RZ8	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Bulk import (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2.0	2.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	4.0	4.0	0.0	4.0	4.0	0.0	4.0	4.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	4.0	4.0	0.0	4.0	4.0	0.0	4.0	4.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	4.0	4.0	0.0	4.0	4.0	0.0	4.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	4.0	0.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (KMW): NEUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (KTZ): NEUBs	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Drought option - demand side (SHZ): NEUBs	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	0.0	0.0	2.7	0.0	0.0	2.7	0.0	0.0	0.0
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0	0.0
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	7.3	8.8	0.3	1.5	6.7	0.0	0.0	1.3	0.0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	8.8	20.9	17.4	5.7	12.2	14.7	5.7	5.7	8.5
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	12.3	7.0	7.3	9.9	16.8	7.3	7.9	6.3	6.3
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	1.5	14.0	14.0	1.5	14.0	13.7	1.5	14.0	8.6
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Recycling (KMW): Medway to lake (14Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycling (SHZ): Tonbridge to Bewl (5.7Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3.4 Option utilisation profiles (Best Value Plan excluding import of water via sea tankers)

3.4.1 Western area

Utilisation of supply-side options in the Western area is shown in Figure 73 to Figure 94, excluding interzonal transfers.

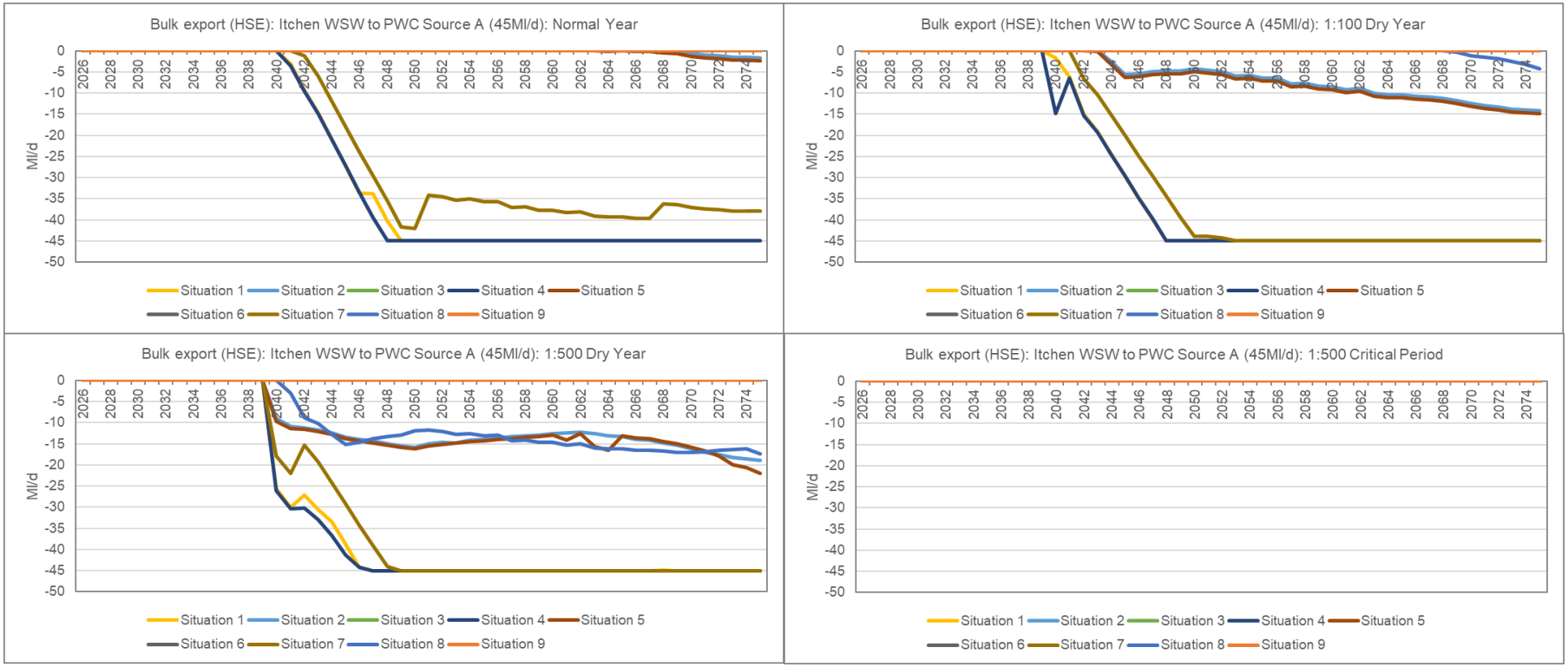

Figure 73: Utilisation of bulk export from Itchen WSW HSE to Portsmouth Water Source A in each supply-demand situation under each planning scenario.

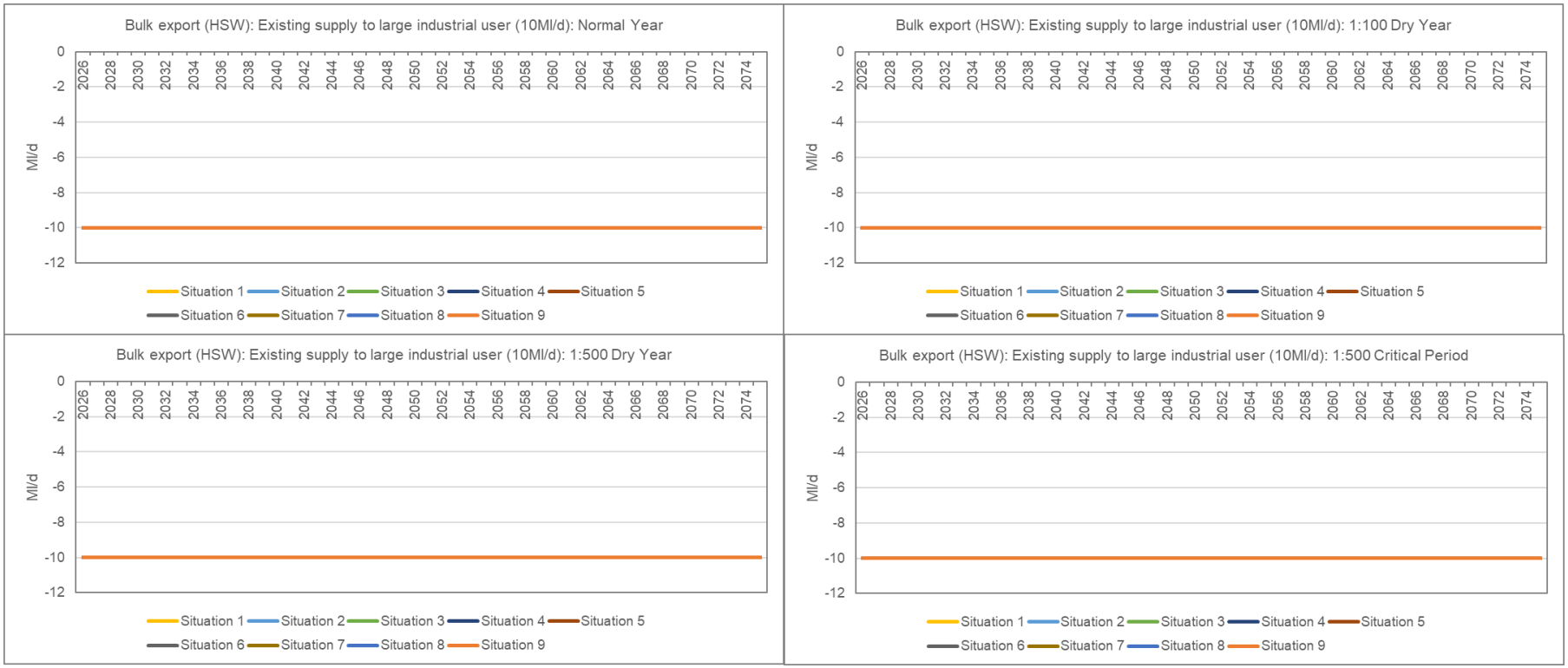

Figure 74: Utilisation of existing bulk supply to an existing industrial user in HSW in each supply-demand situation under each planning scenario.

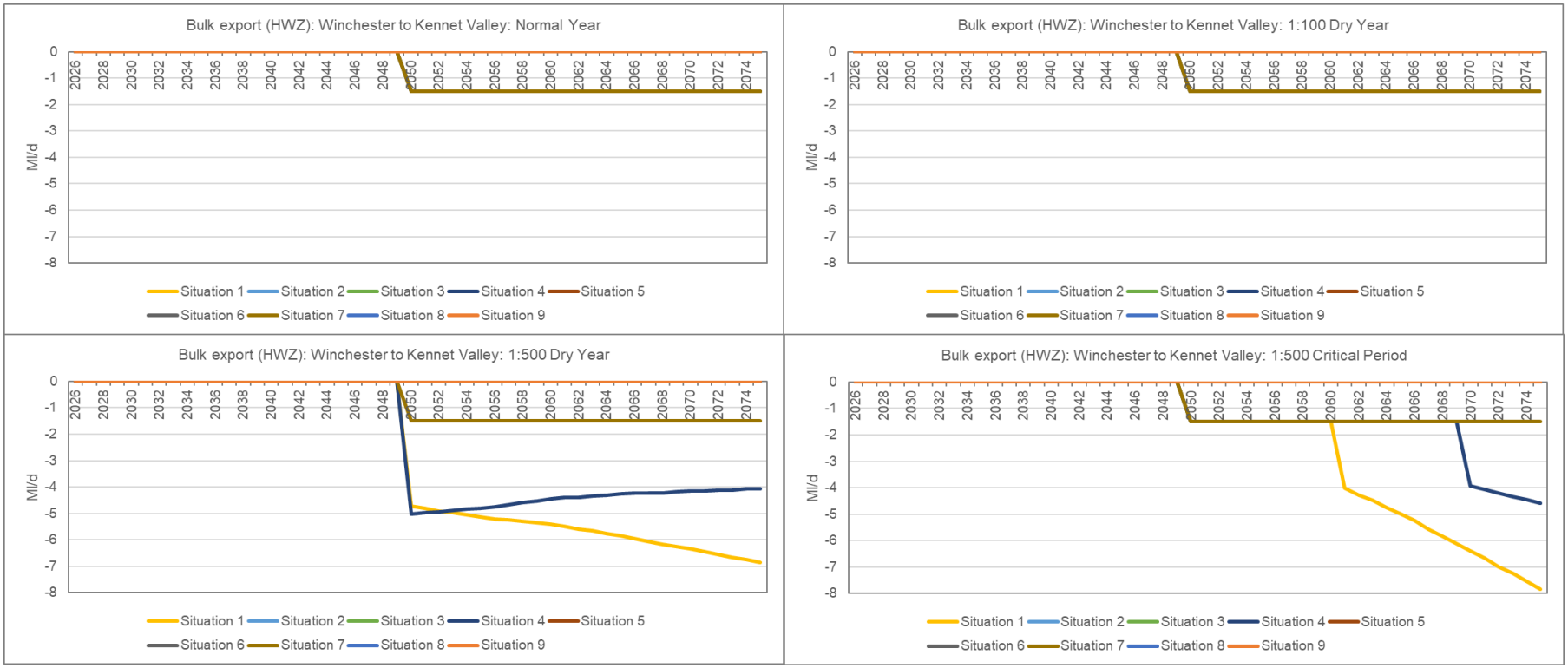

Figure 75: Utilisation of bulk export to Kennet Valley from HWZ in each supply-demand situation under each planning scenario.

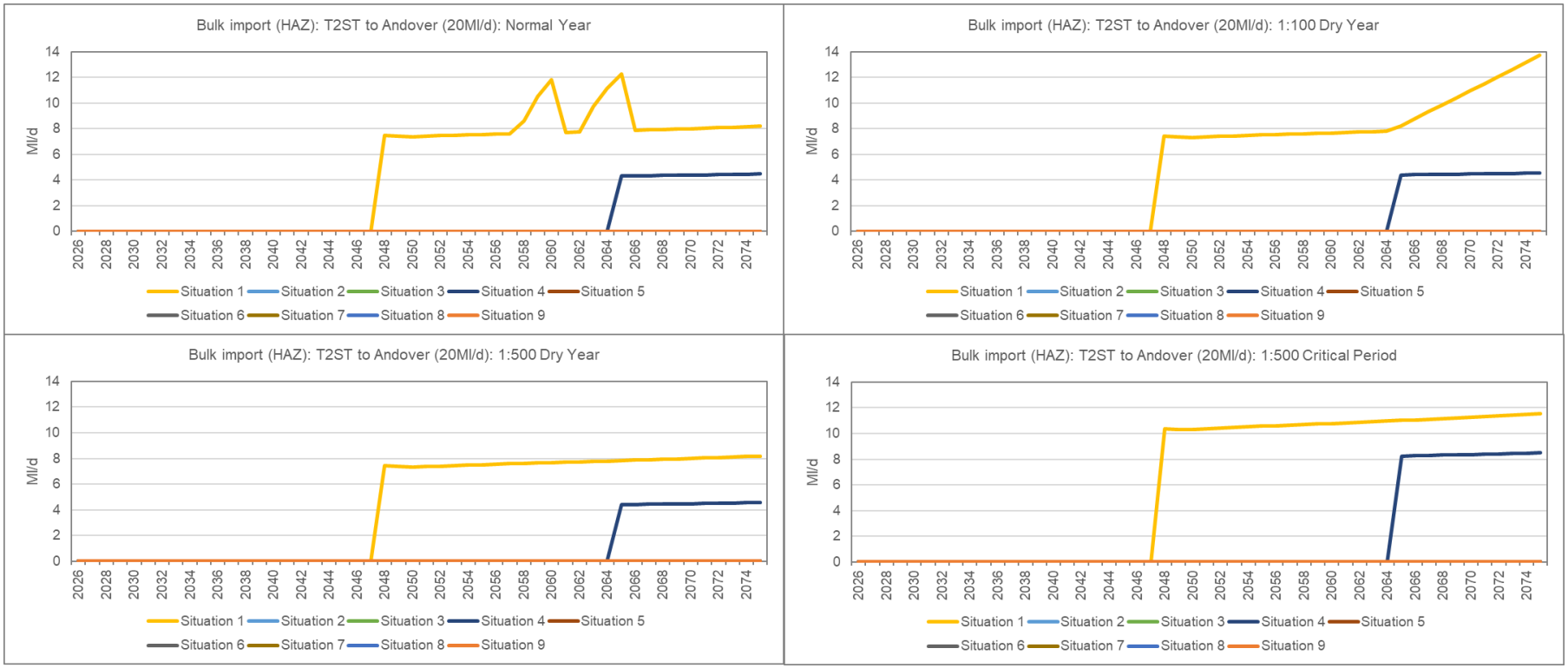

Figure 76: Utilisation of bulk import to HAZ via T2ST in each supply-demand situation under each planning scenario.

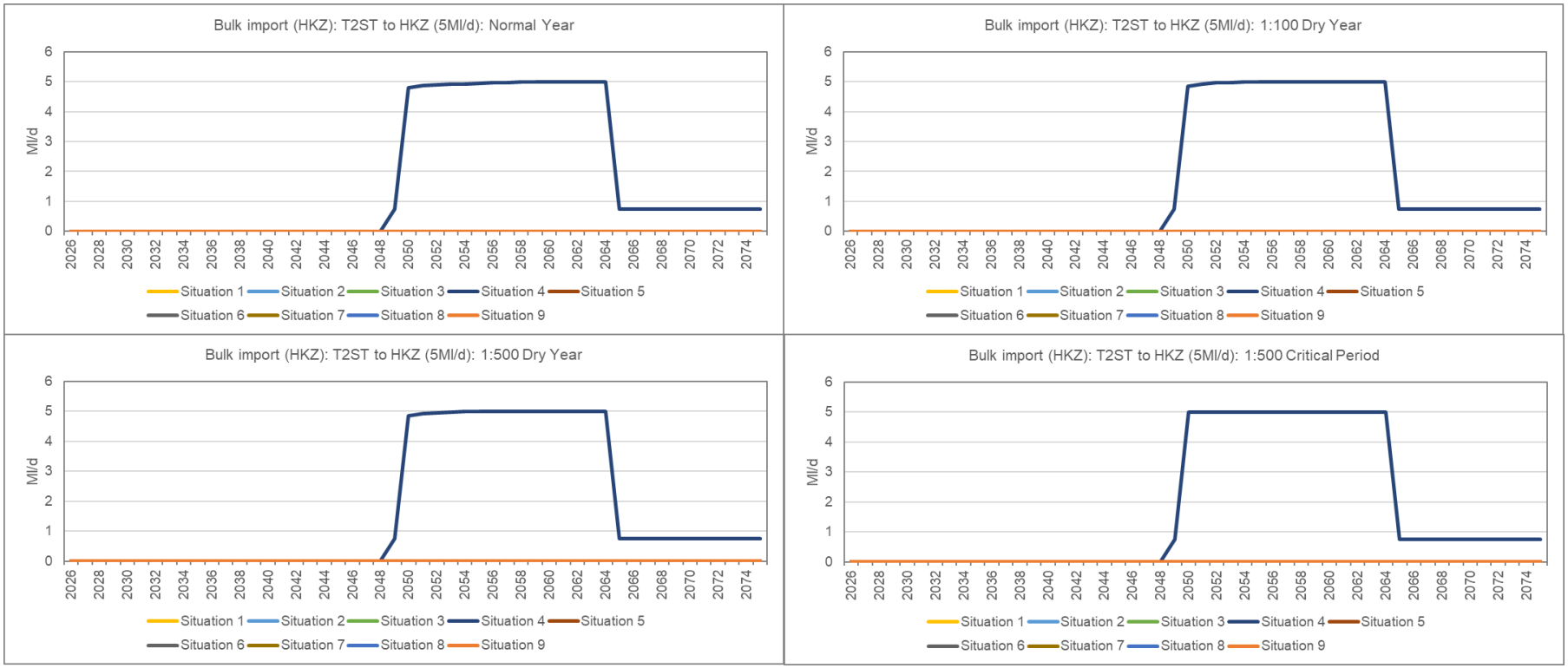

Figure 77: Utilisation of bulk import to HKZ from Havant Thicket Reservoir in each supply-demand situation under each planning scenario.

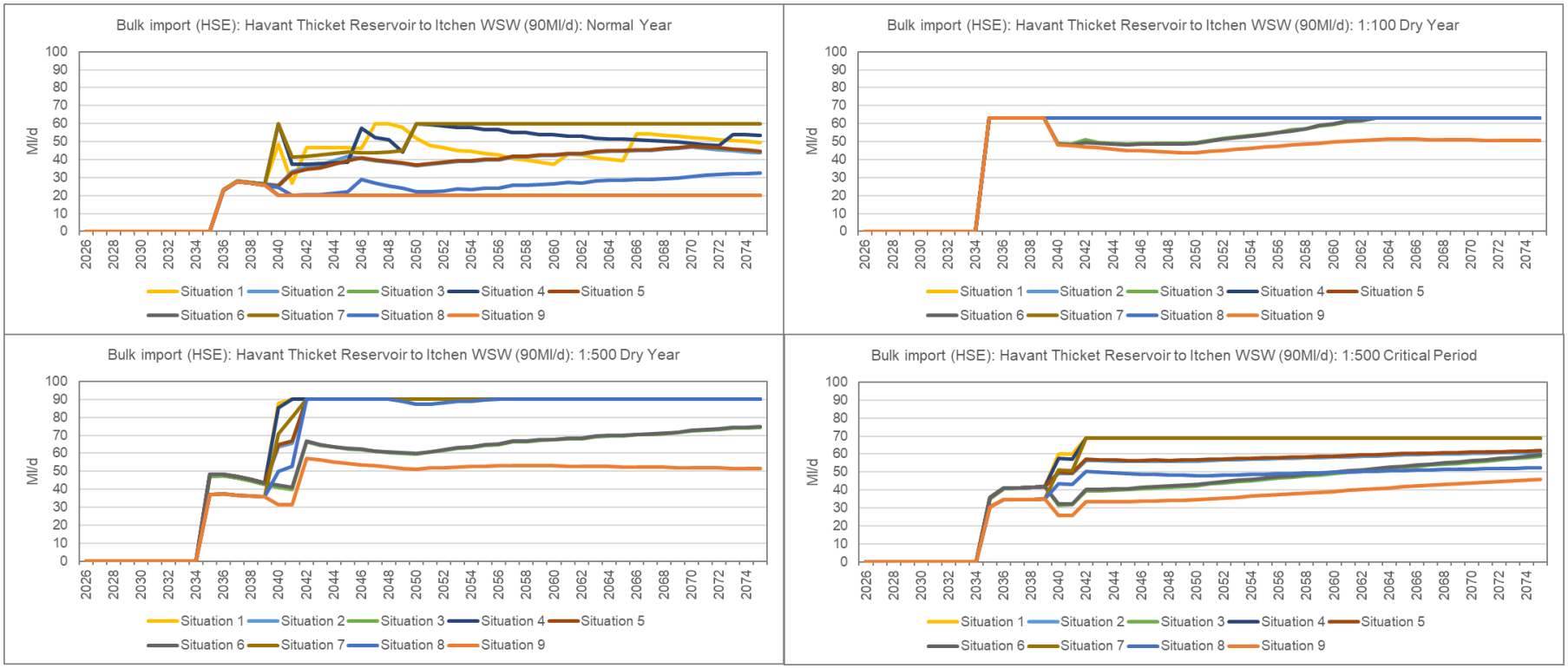

Figure 78: Utilisation of bulk import to HSE from Havant Thicket Reservoir in each supply-demand situation under each planning scenario.

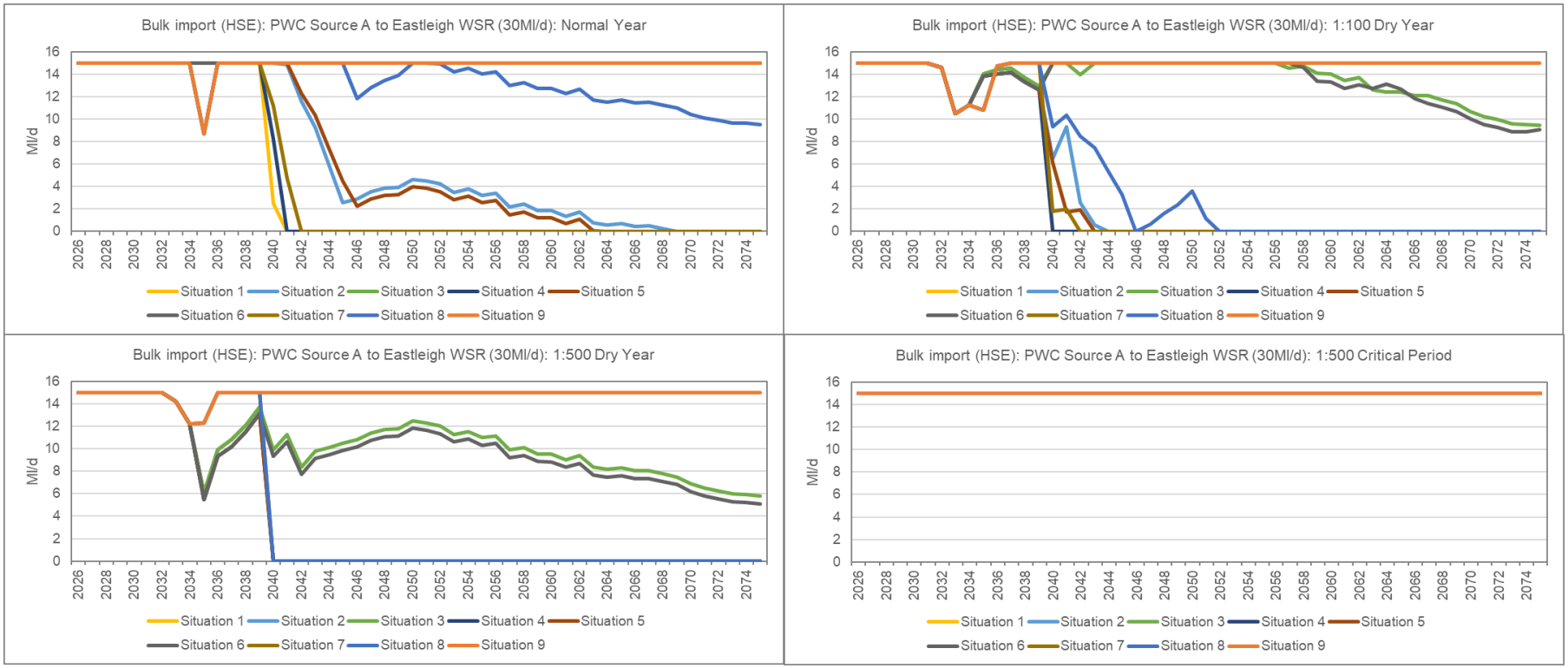

Figure 79: Utilisation of bulk import to Eastleigh WSR in HSE from Portsmouth Water Source A in each supply-demand situation under each planning scenario.

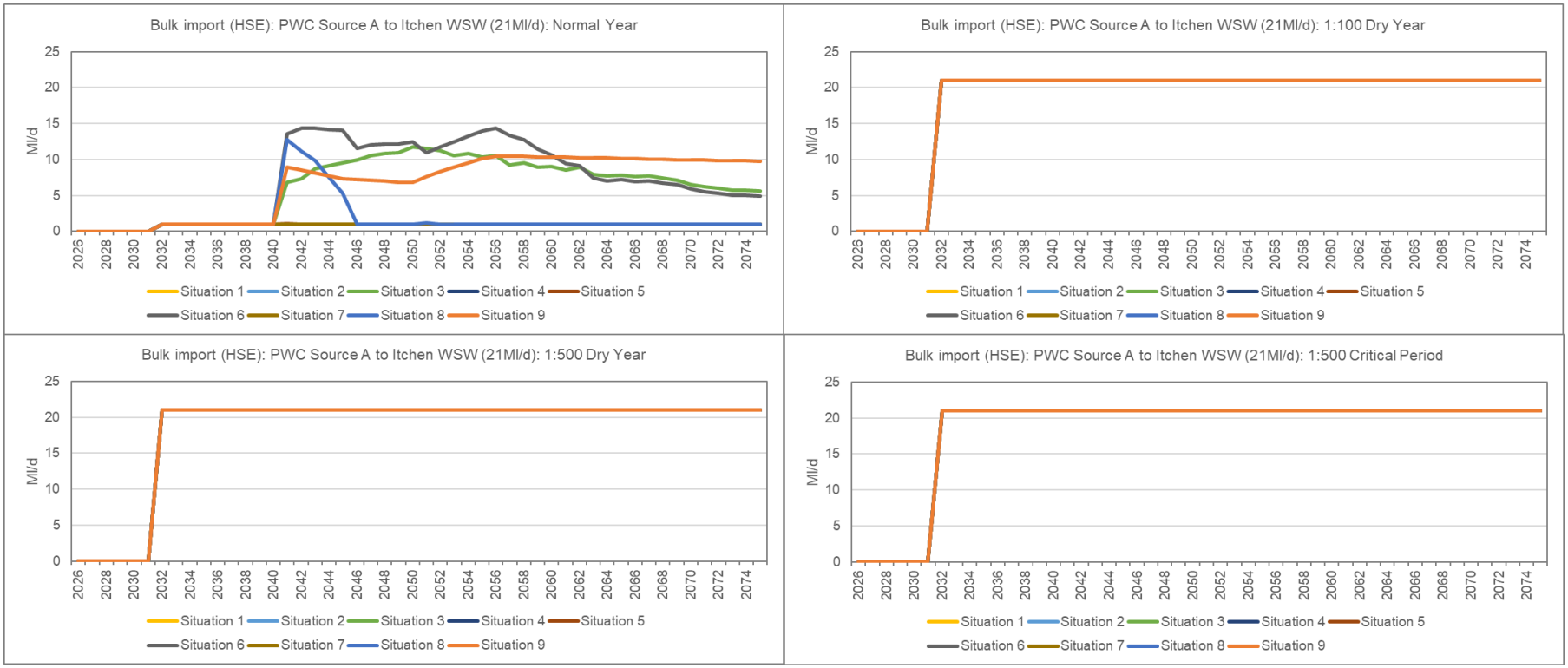

Figure 80: Utilisation of bulk import to Itchen WSW in HSE from Portsmouth Water Source A in each supply-demand situation under each planning scenario.

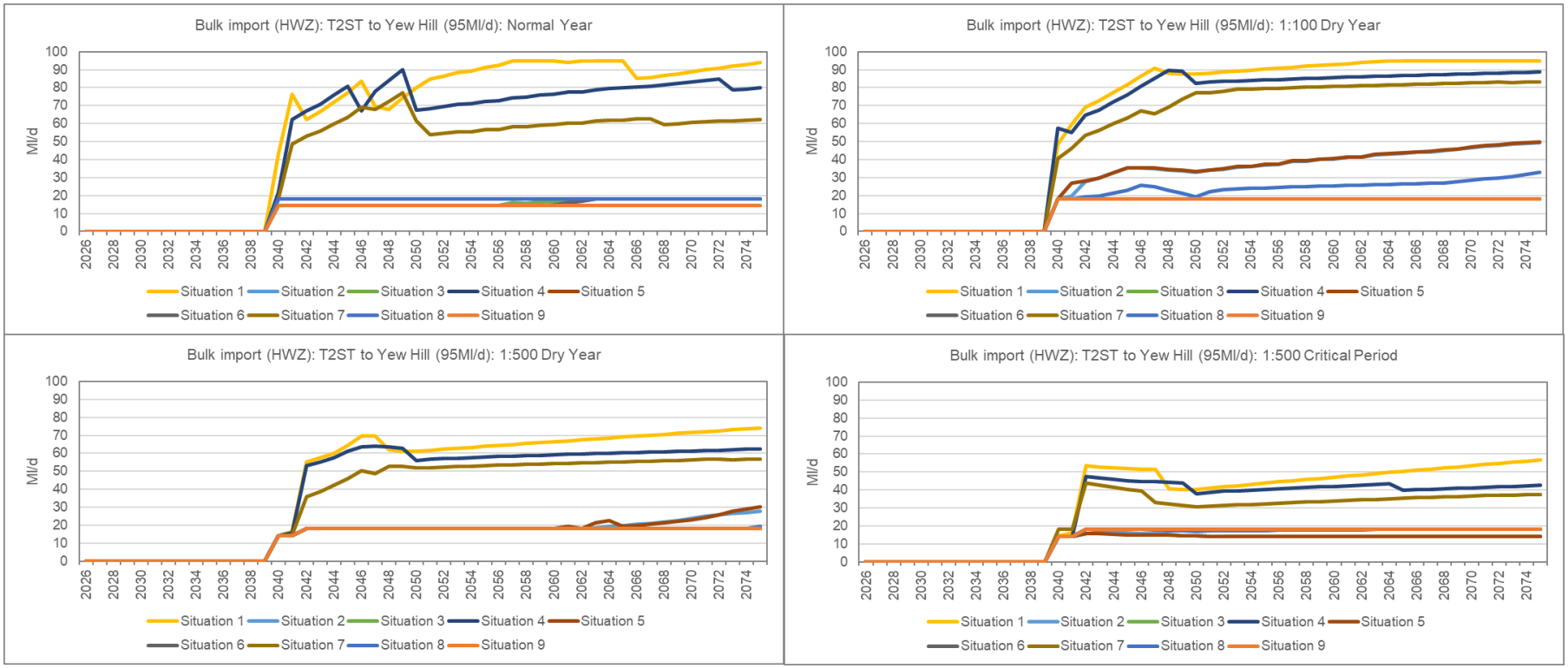

Figure 81: Utilisation of bulk import to HWZ via T2ST in each supply-demand situation under each planning scenario.

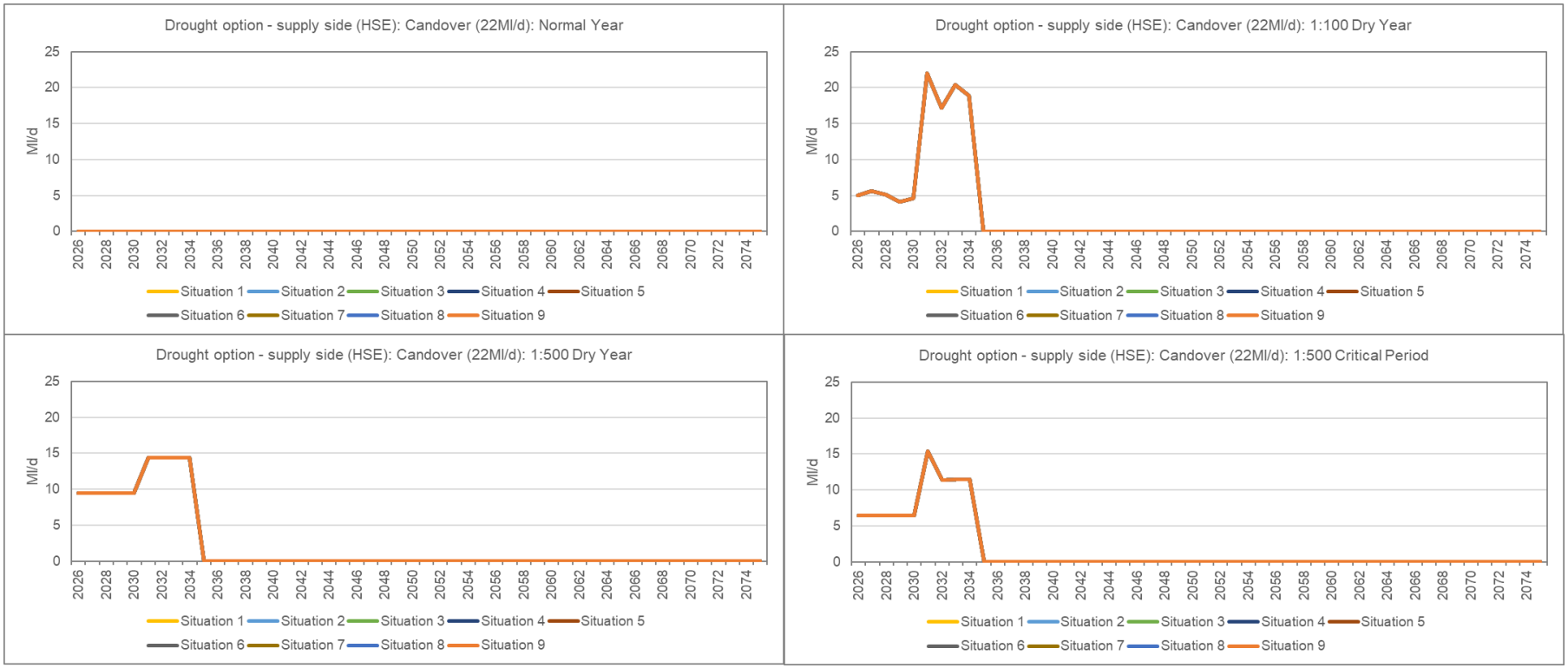

Figure 82: Utilisation of Candover drought option in HSE in each supply-demand situation under each planning scenario.

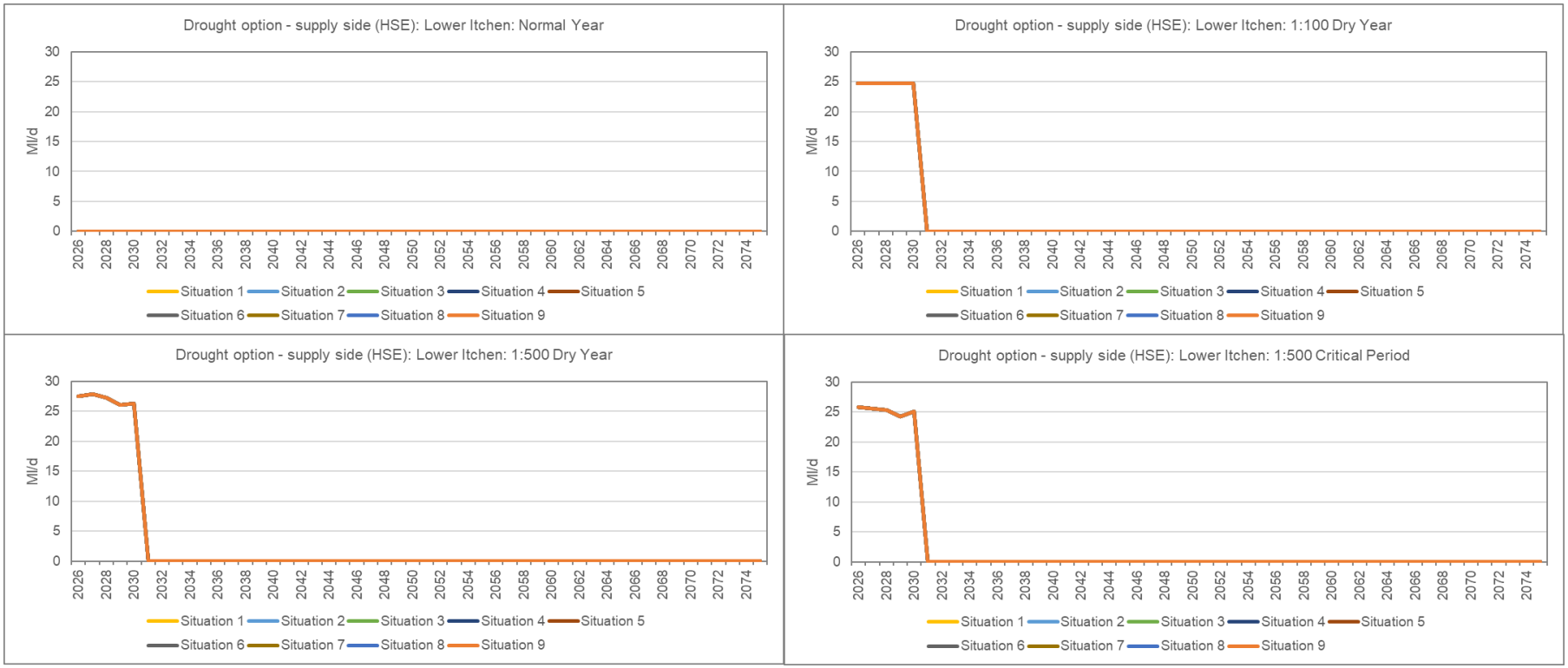

Figure 83: Utilisation of Lower Itchen drought option in HSE in each supply-demand situation under each planning scenario.

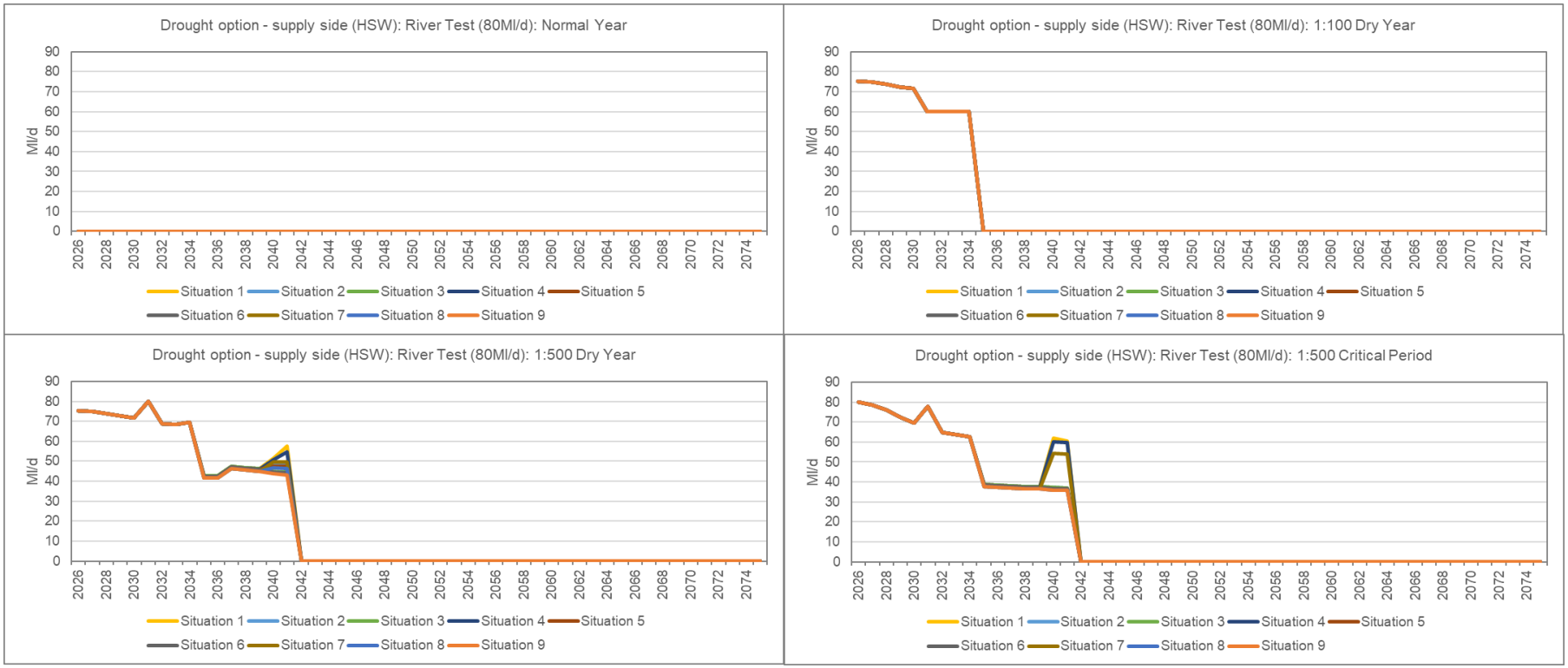

Figure 84: Utilisation of River Test drought option in HSW in each supply-demand situation under each planning scenario.

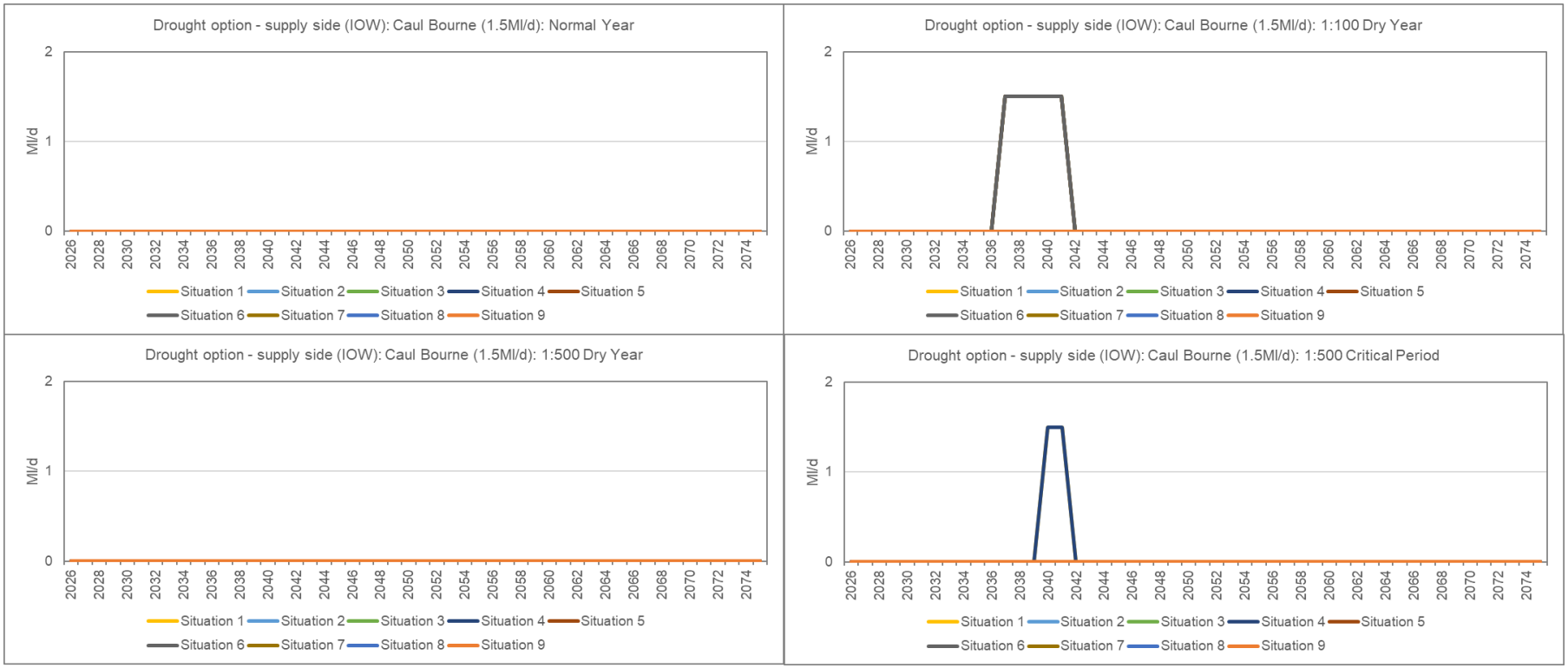

Figure 85: Utilisation of Caul Bourne drought option on the IOW in each supply-demand situation under each planning scenario.

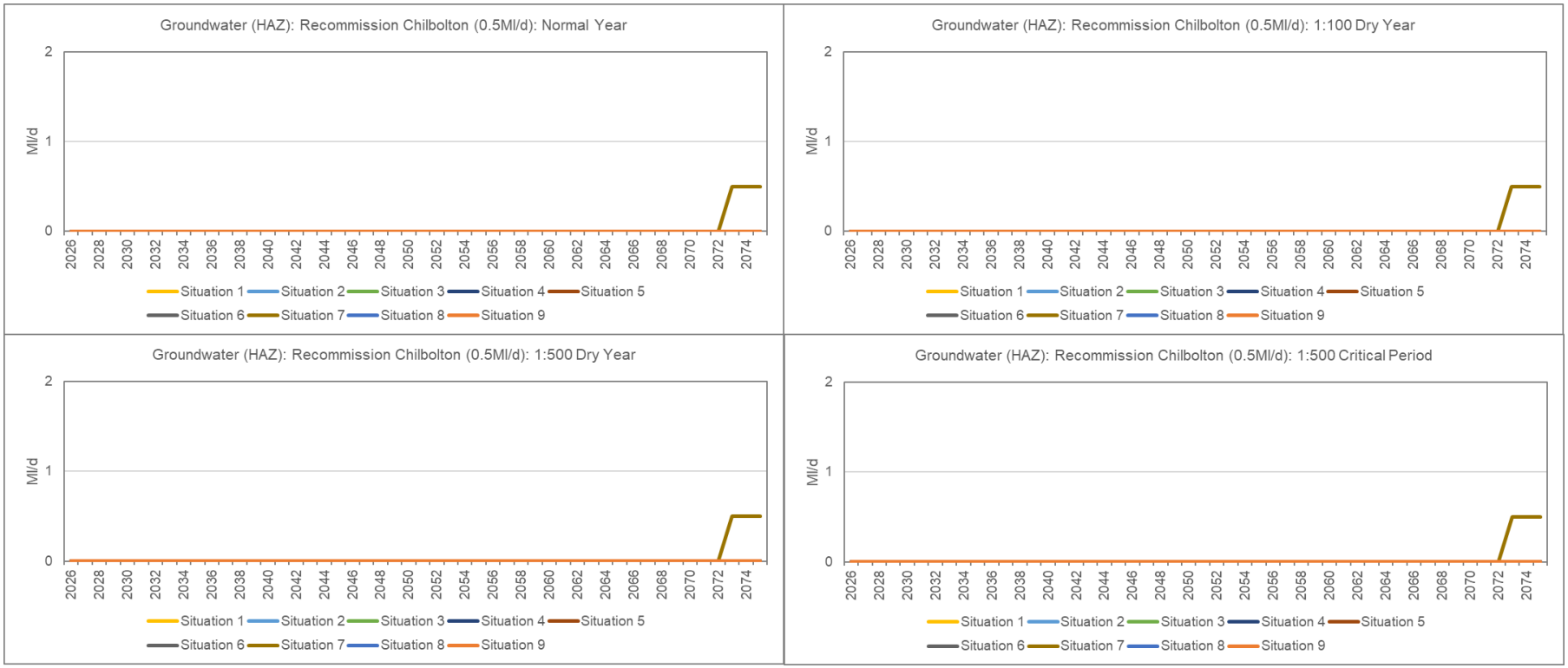

Figure 86: Utilisation of Chilbolton groundwater source in HAZ in each supply-demand situation under each planning scenario.

Figure 87: Utilisation of Newbury groundwater source in HKZ in each supply-demand situation under each planning scenario.

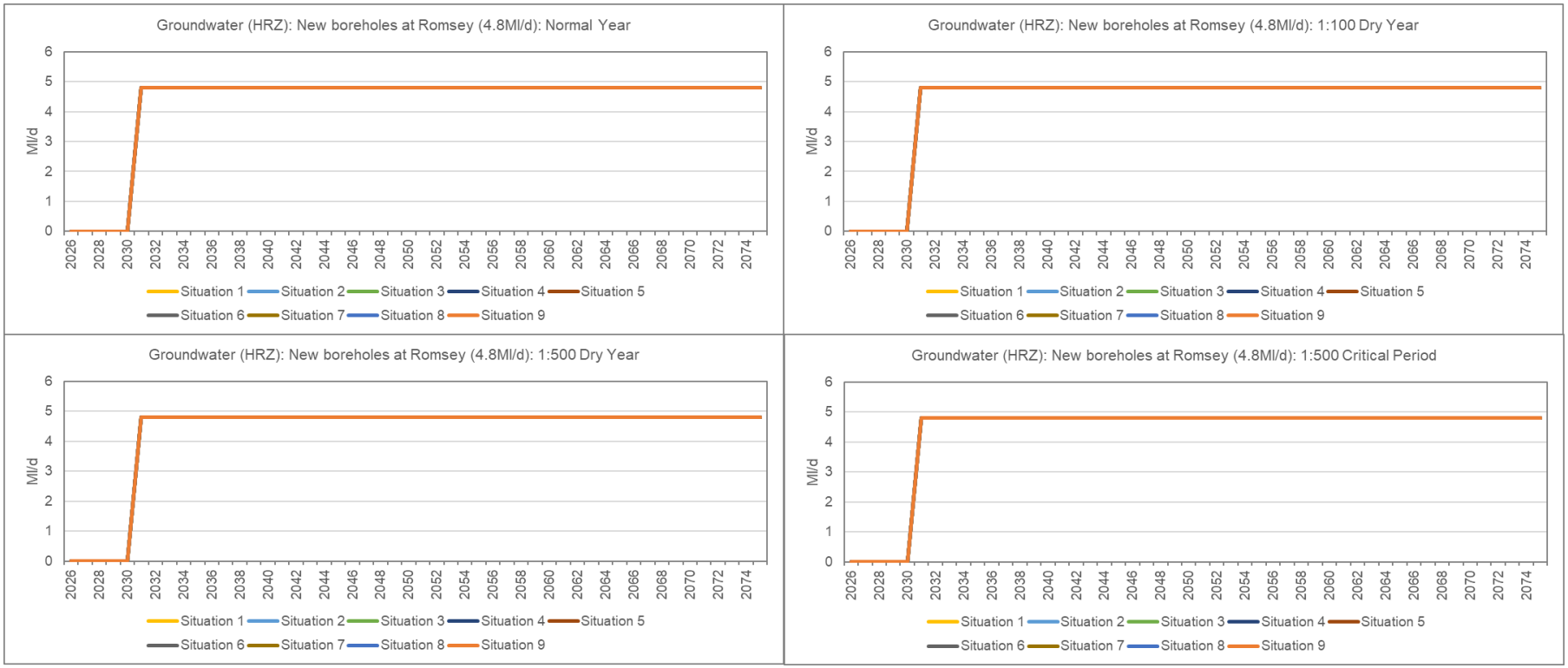

Figure 88: Utilisation of Romsey groundwater source in HRZ in each supply-demand situation under each planning scenario.

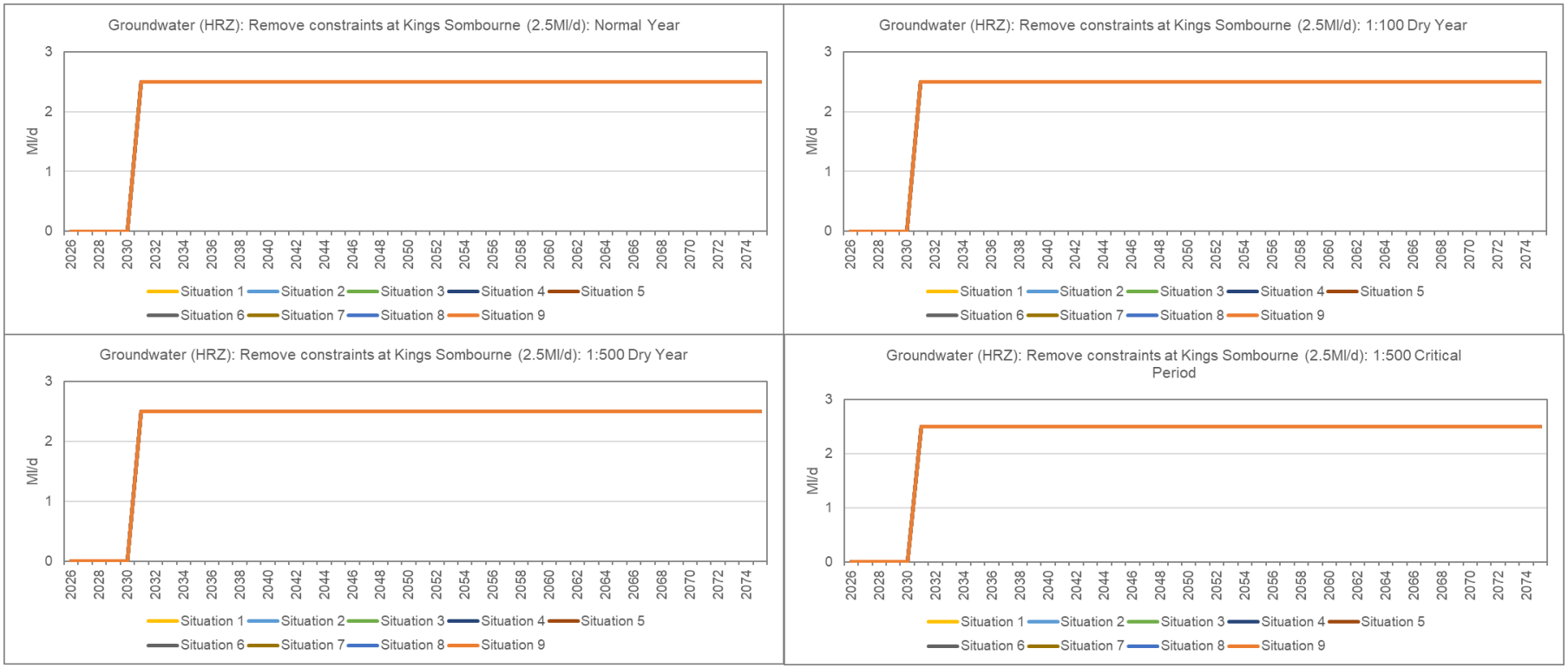

Figure 89: Utilisation of Kings Sombourne groundwater source in HSW in each supply-demand situation under each planning scenario.

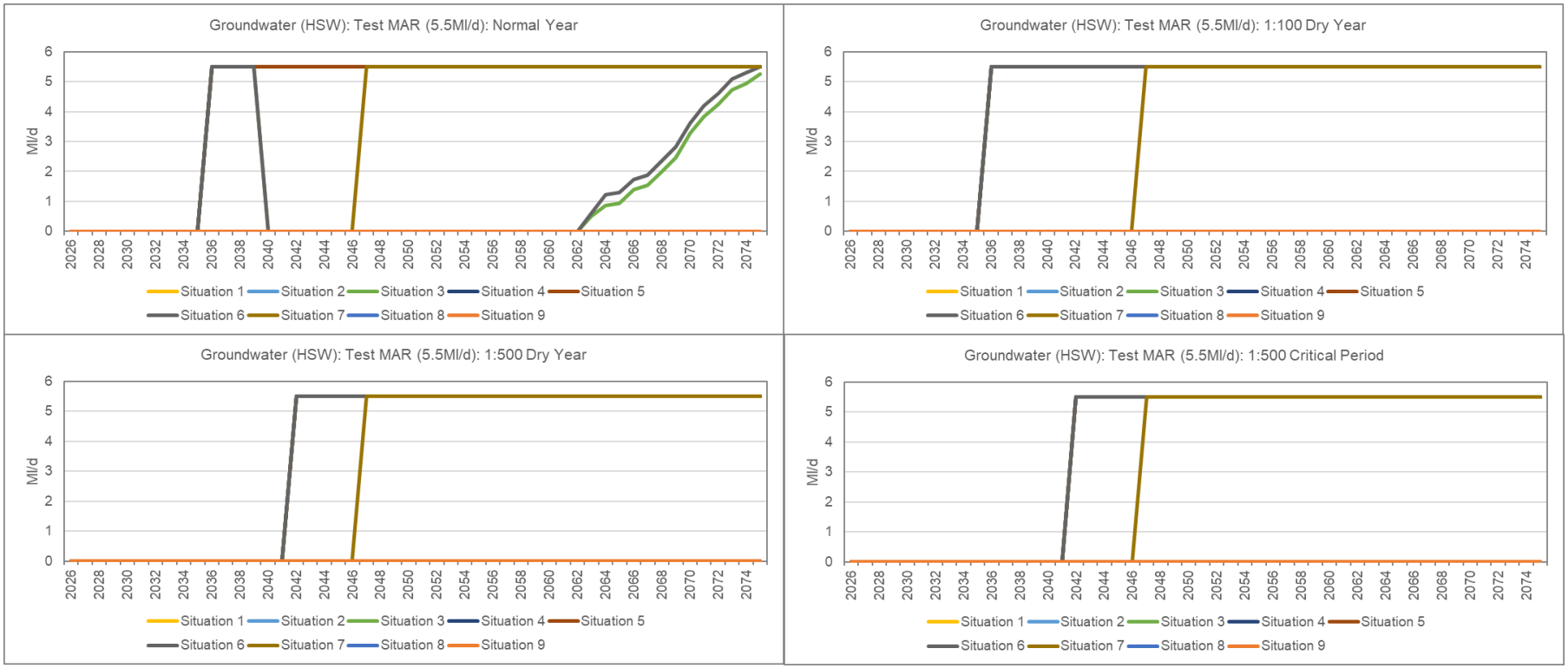

Figure 90: Utilisation of Test MAR groundwater source in HSW in each supply-demand situation under each planning scenario.

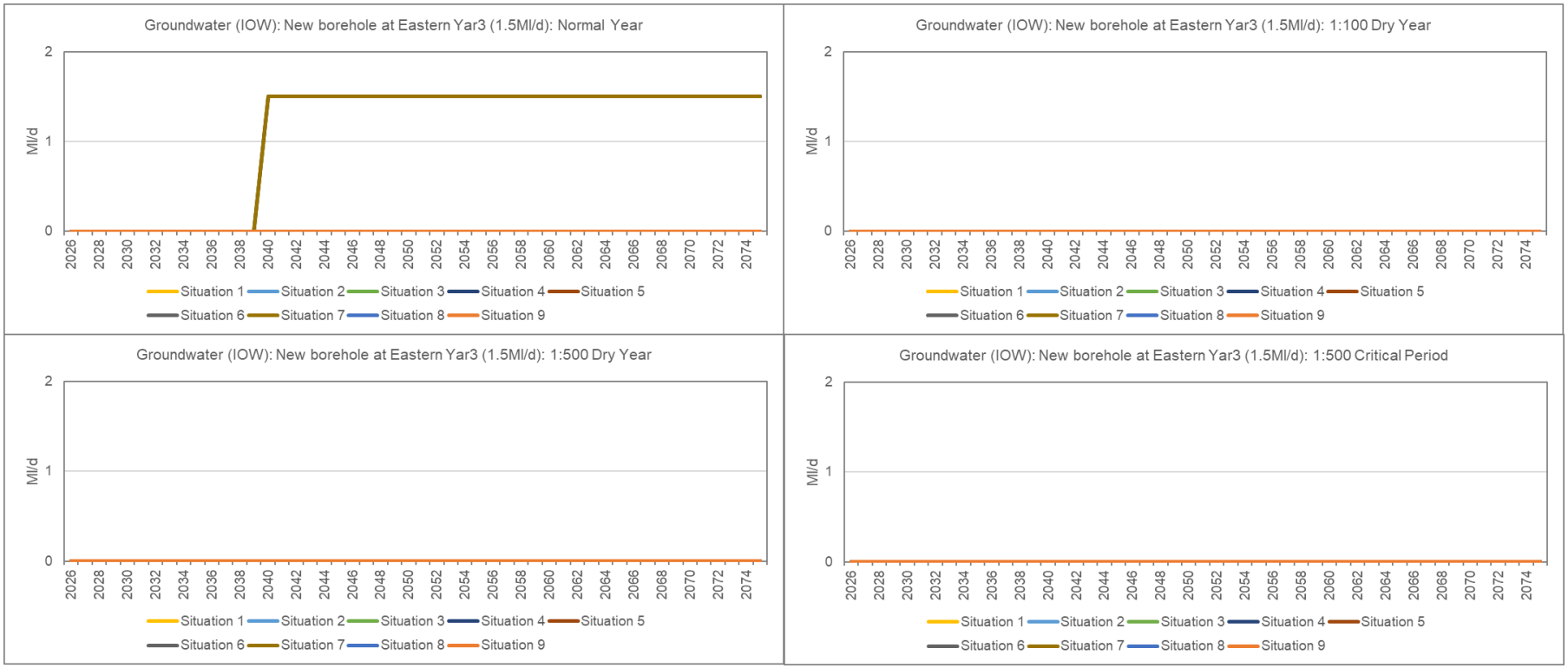

Figure 91: Utilisation of Eastern Yar3 groundwater source on the IOW in each supply-demand situation under each planning scenario.

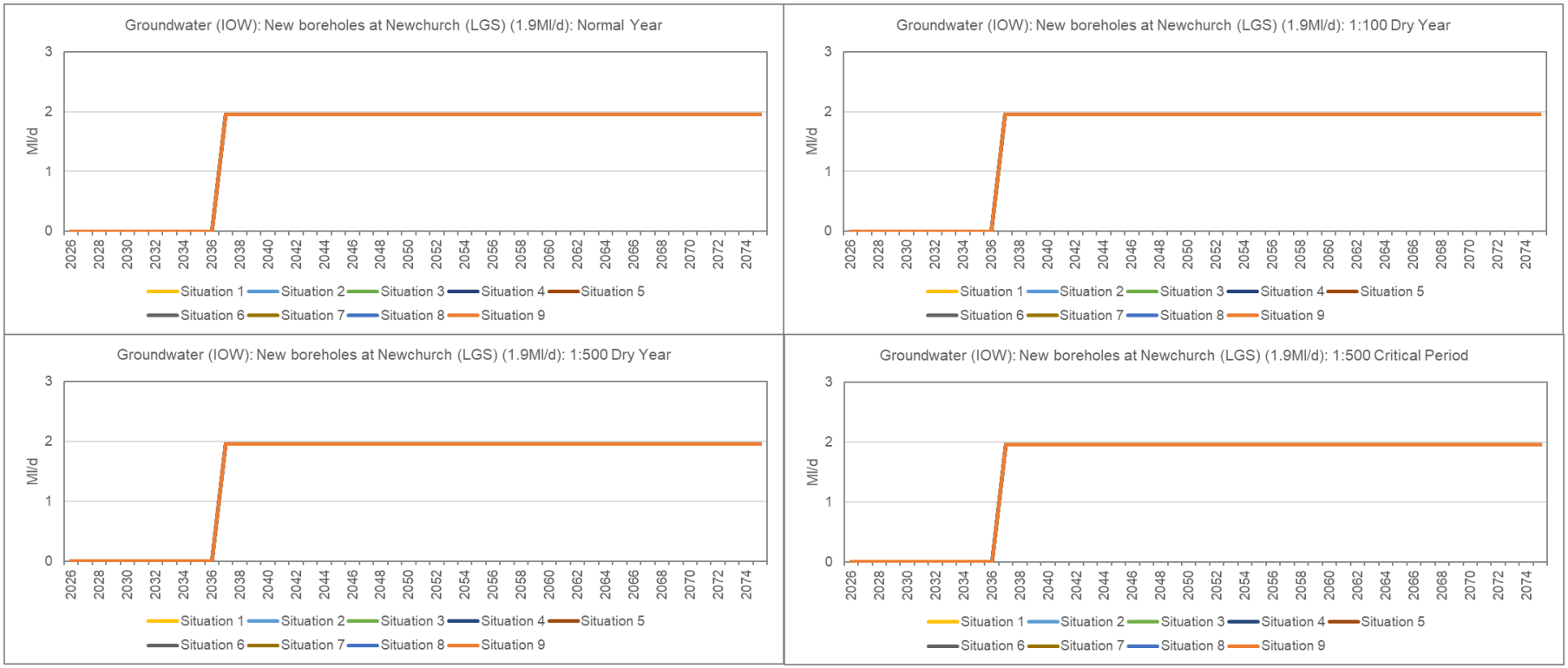

Figure 92: Utilisation of Newchurch groundwater source on the IOW in each supply-demand situation under each planning scenario.

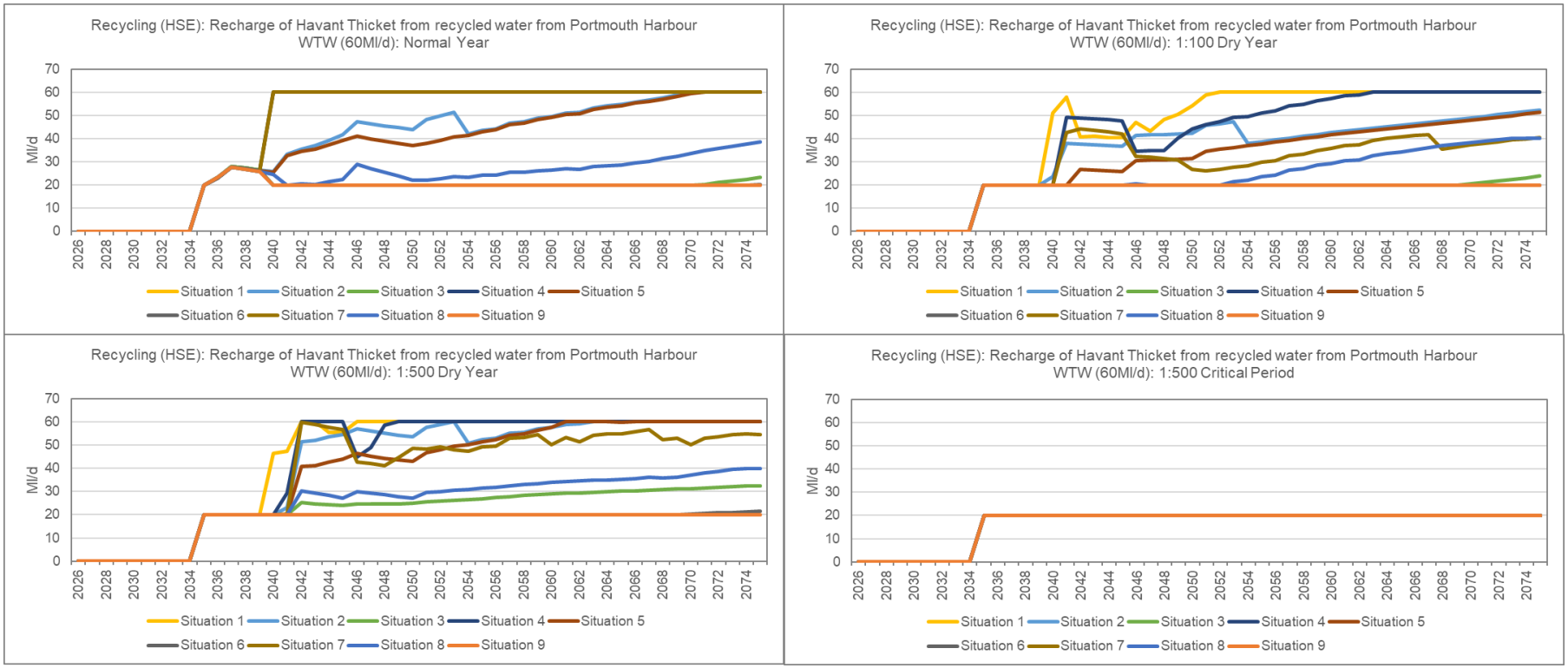

Figure 93: Utilisation of the option to augment storage in Havant Thicket Reservoir with recycled water from Portsmouth Harbour WTW in each supply-demand situation under each planning scenario.

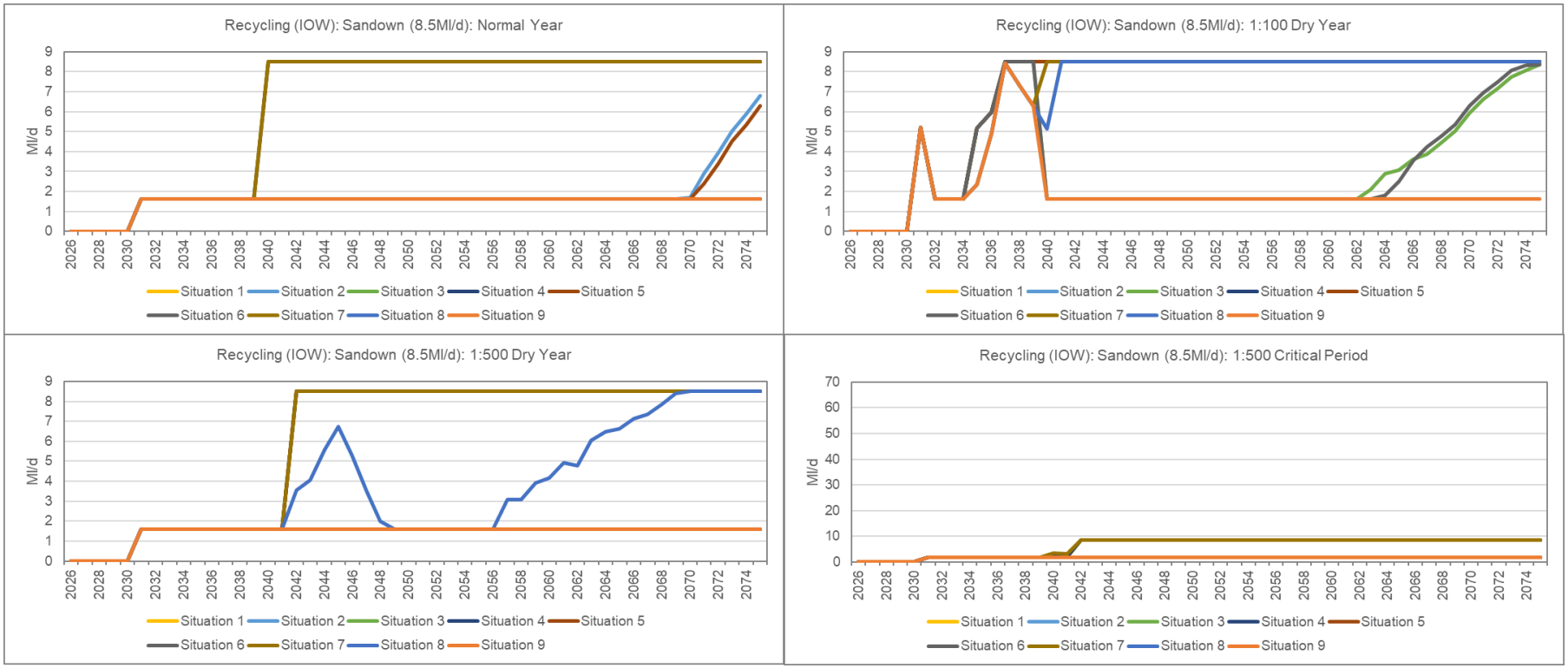

Figure 94: Utilisation of Sandown recycling option on the IOW in each supply-demand situation under each planning scenario.

3.4.2 Central area

Utilisation of supply-side options in the Central area is shown in Figure 95 to Figure 114, excluding interzonal transfers.

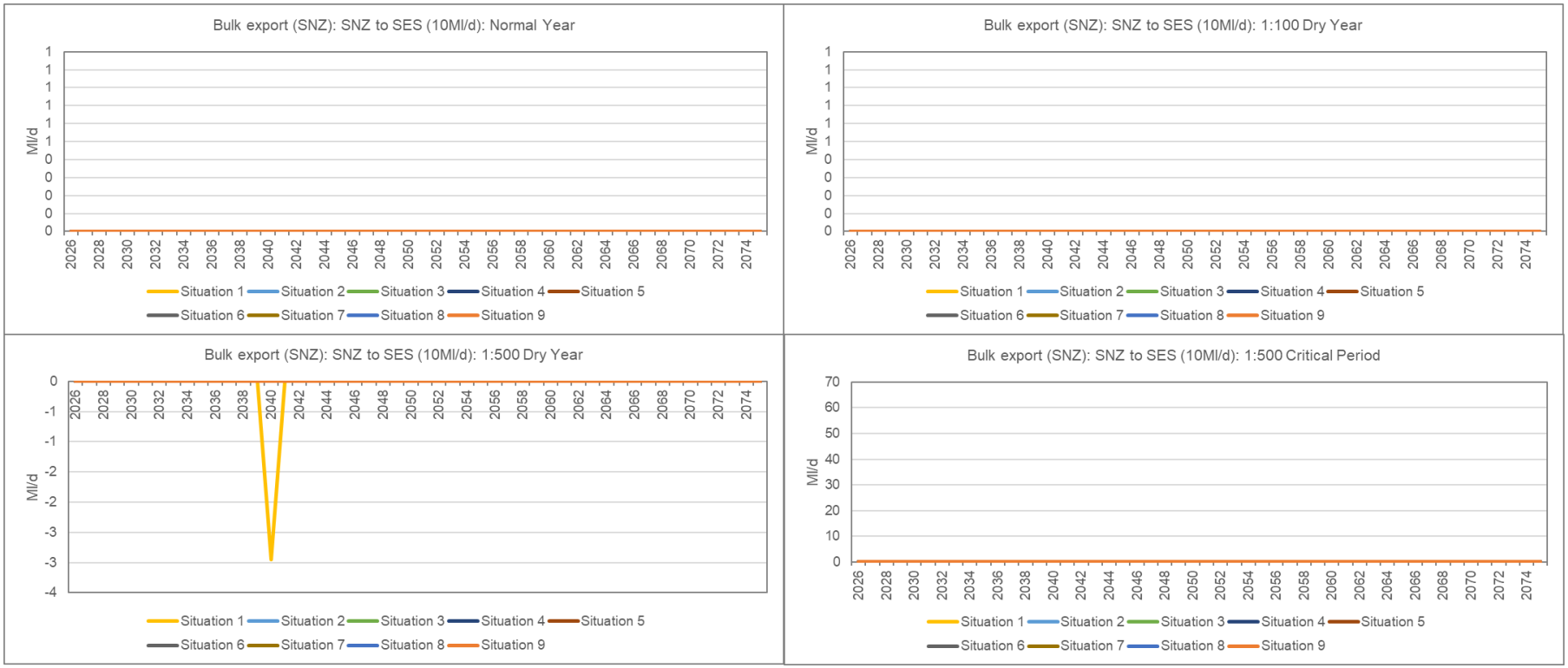

Figure 95: Utilisation of bulk export from SNZ to SES Water in each supply-demand situation under each planning scenario.

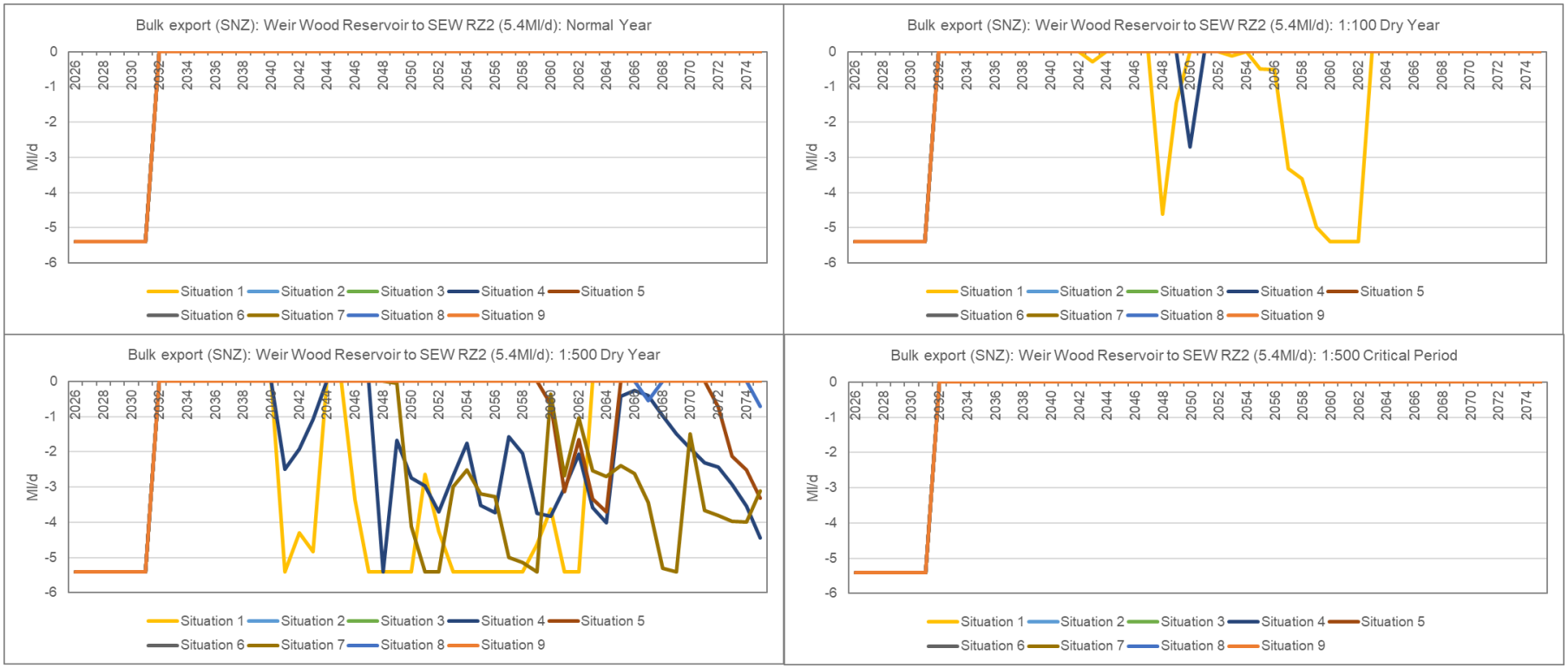

Figure 96: Utilisation of bulk export from Weir Wood Reservoir in SNZ to South East Water in each supply-demand situation under each planning scenario.

Figure 97: Utilisation of bulk import from South East Water to Rottingdean WSW in SBZ in each supply-demand situation under each planning scenario.

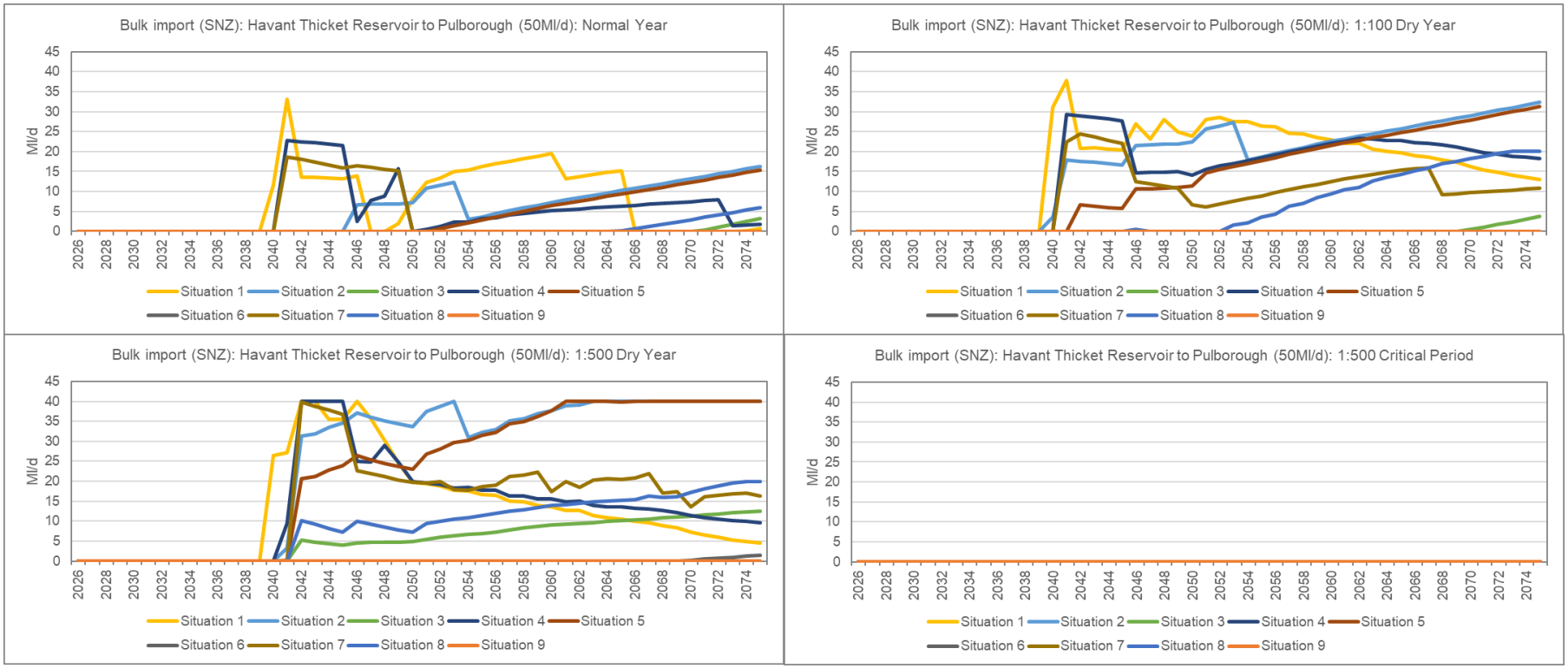

Figure 98: Utilisation of bulk import from Havant Thicket Reservoir to Pulborough in SNZ in each supply-demand situation under each planning scenario.

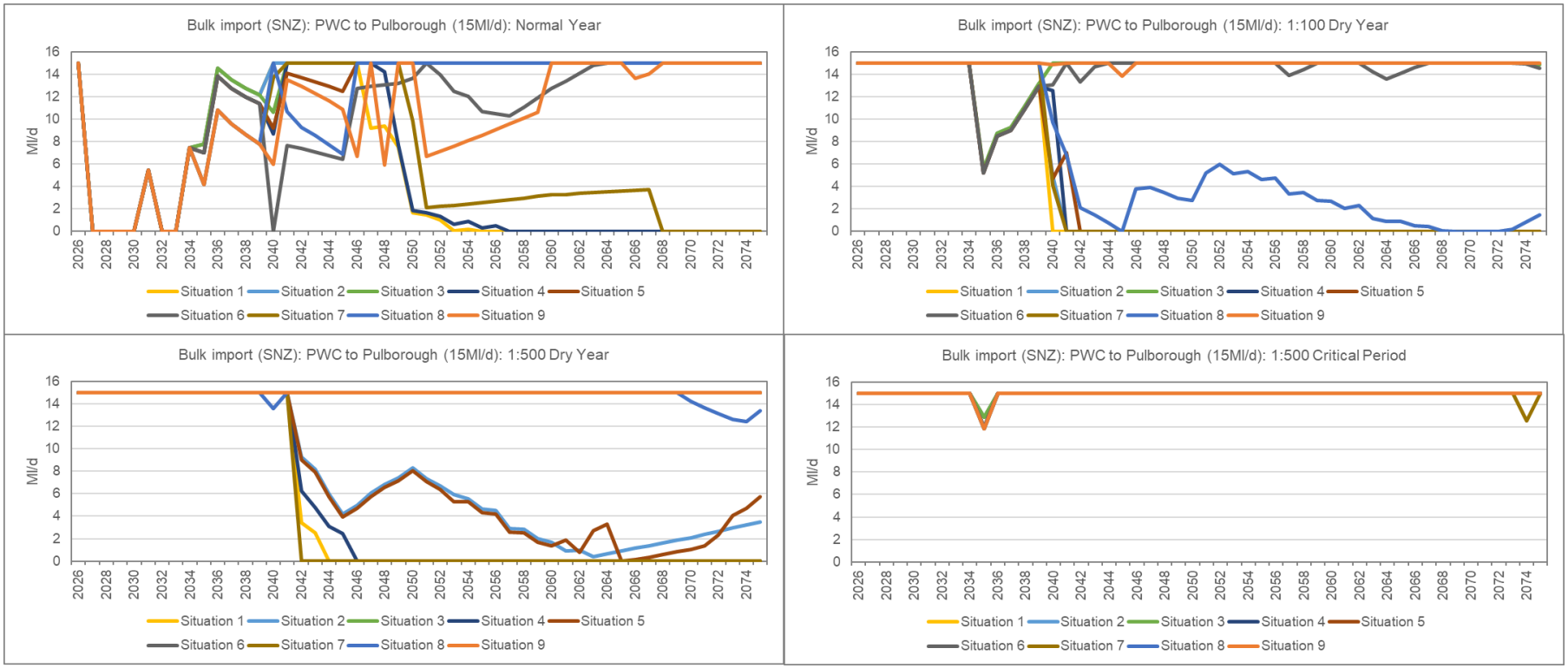

Figure 99: Utilisation of bulk import from Portsmouth Water to Pulborough in SNZ in each supply-demand situation under each planning scenario.

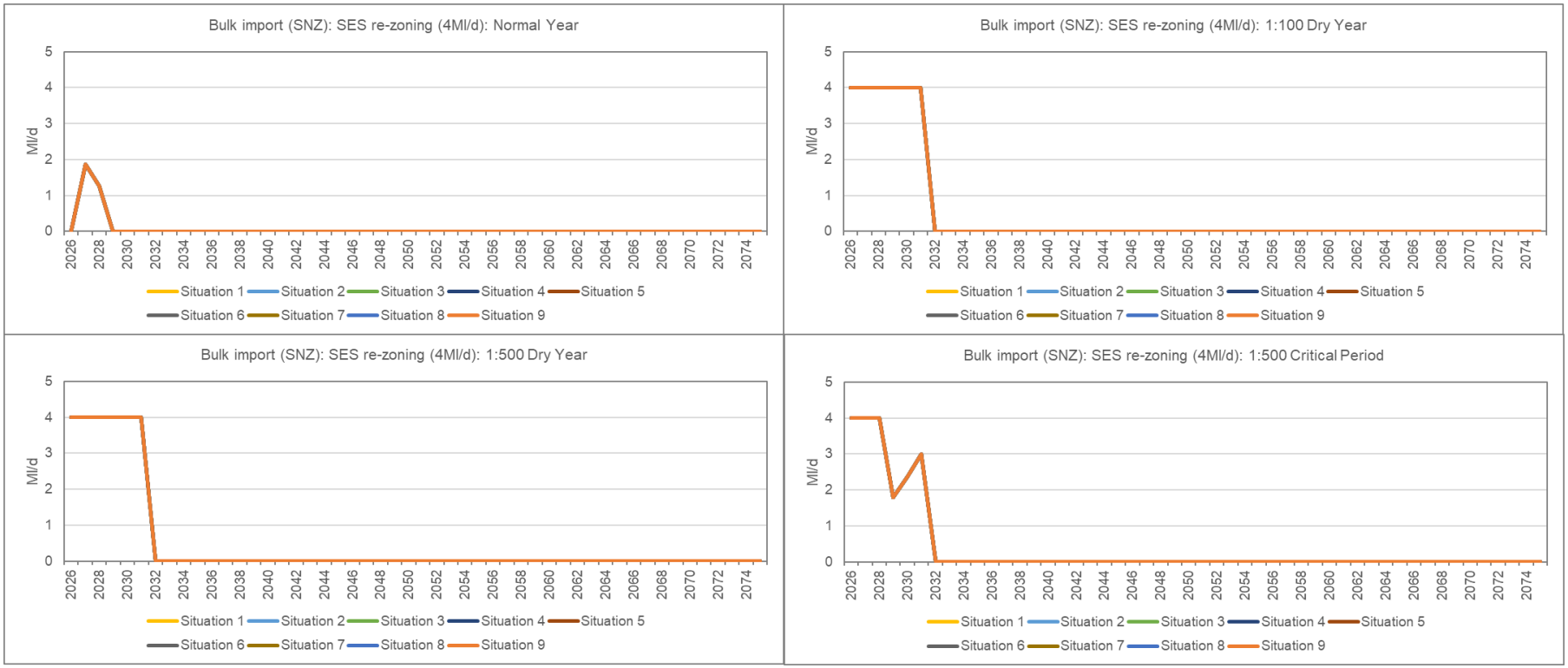

Figure 100: Utilisation of the option to rezone customers in SNZ to SES Water in each supply-demand situation under each planning scenario.

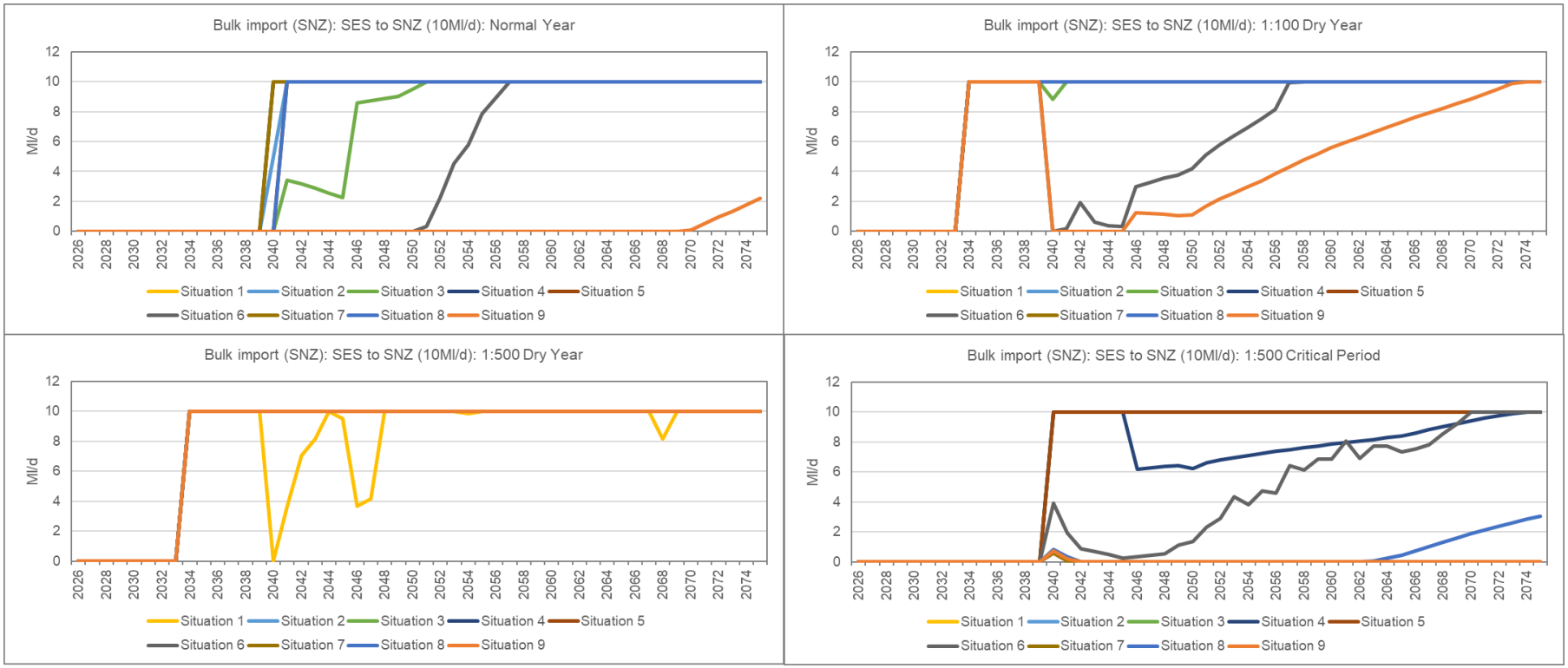

Figure 101: Utilisation of bulk import from SES Water to SNZ in each supply-demand situation under each planning scenario.

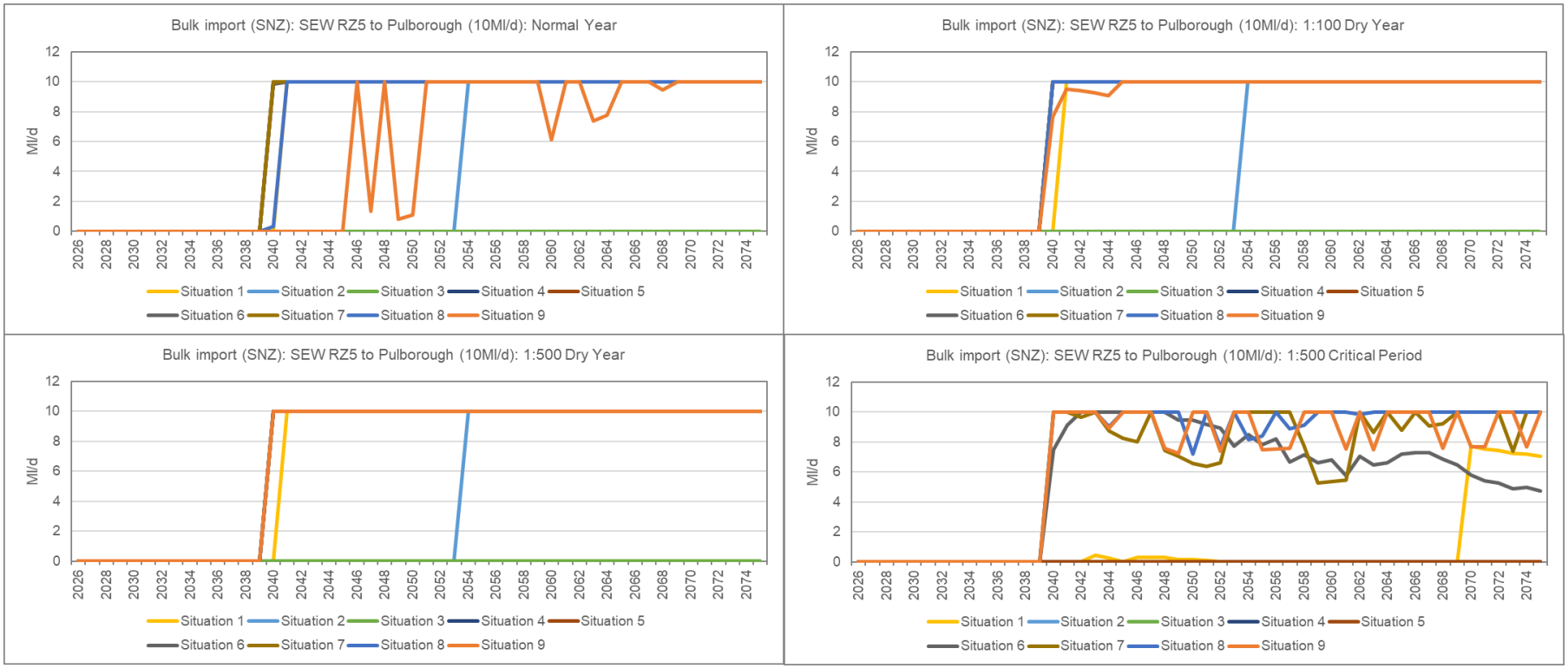

Figure 102: Utilisation of bulk import from South East Water to Pulborough WSW in SNZ in each supply-demand situation under each planning scenario.

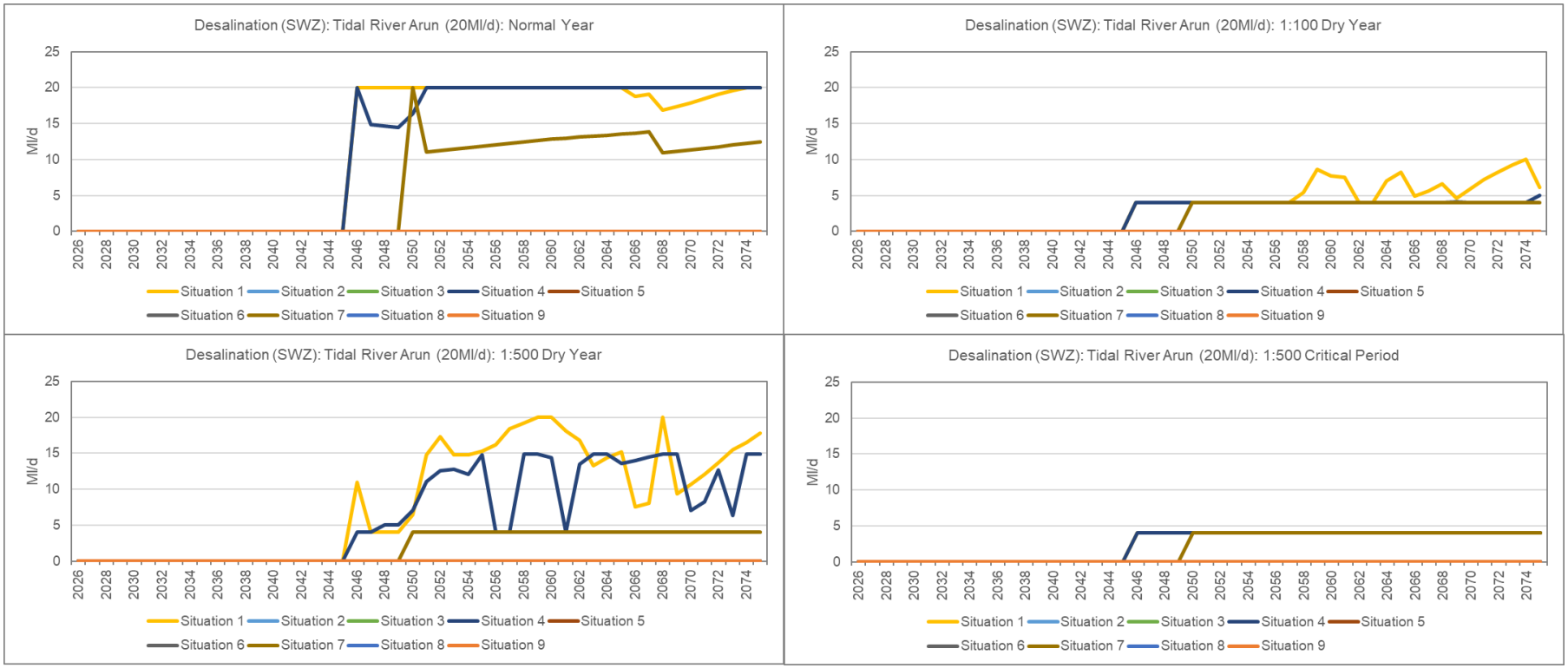

Figure 103: Utilisation of River Arun desalination option (20M/d) in SWZ in each supply-demand situation under each planning scenario.

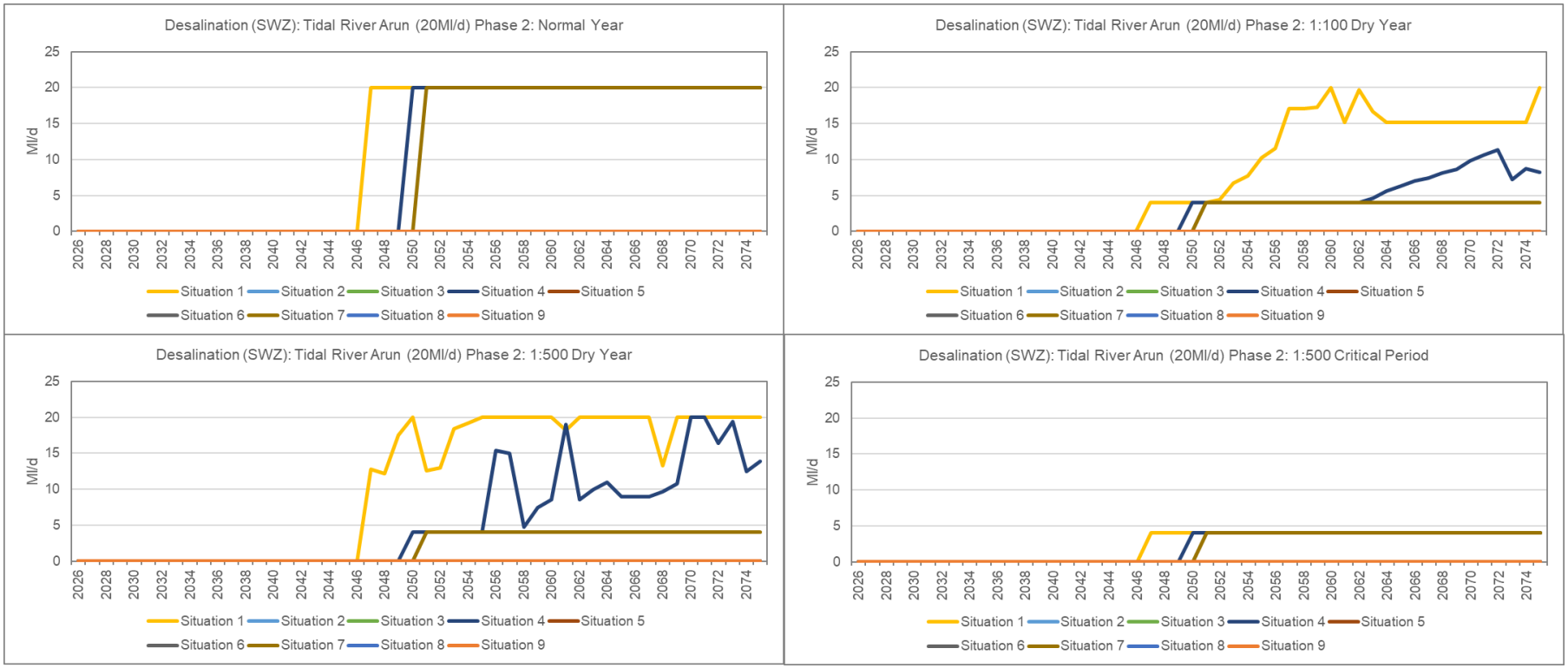

Figure 104: Utilisation of River Arun desalination option (20M/d Phase 2) in SWZ in each supply-demand situation under each planning scenario.

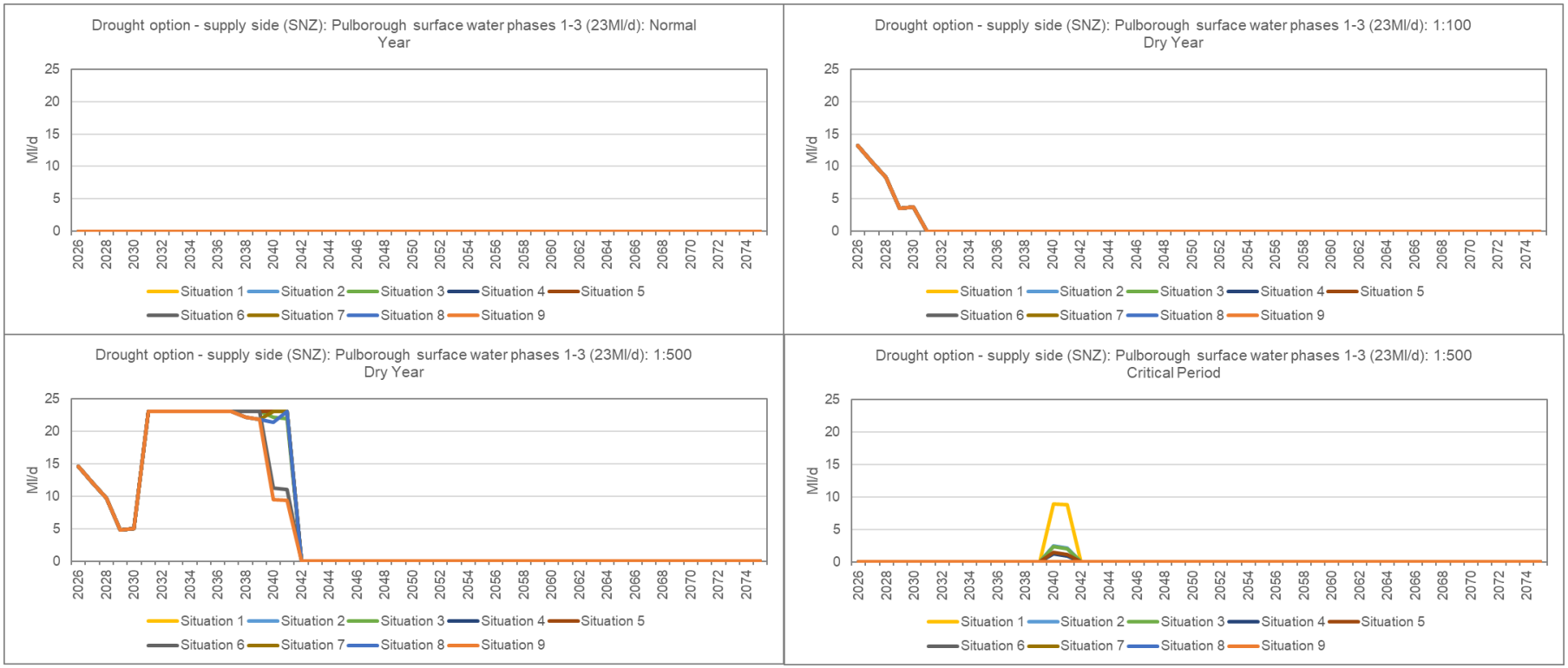

Figure 105: Utilisation of Pulborough surface water drought option in SNZ in each supply-demand situation under each planning scenario.

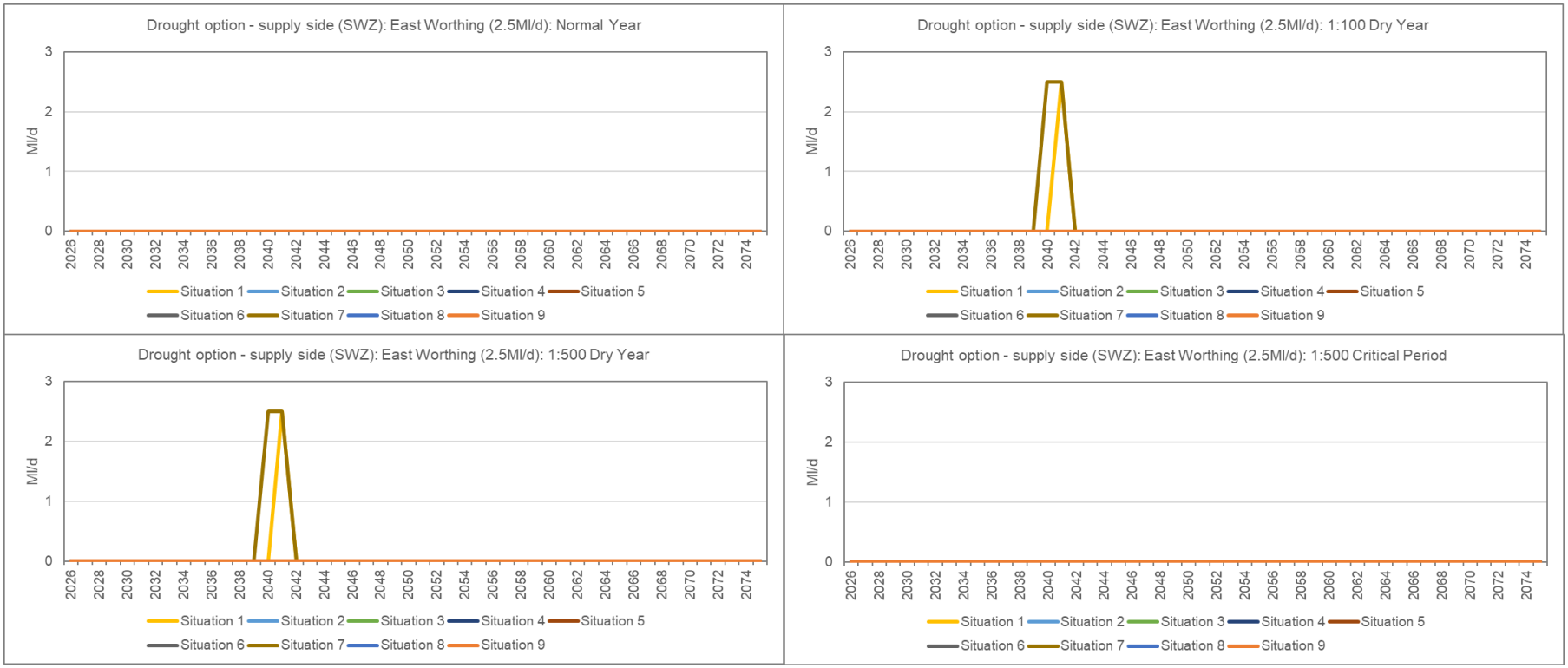

Figure 106: Utilisation of East Worthing drought option in SWZ in each supply-demand situation under each planning scenario.

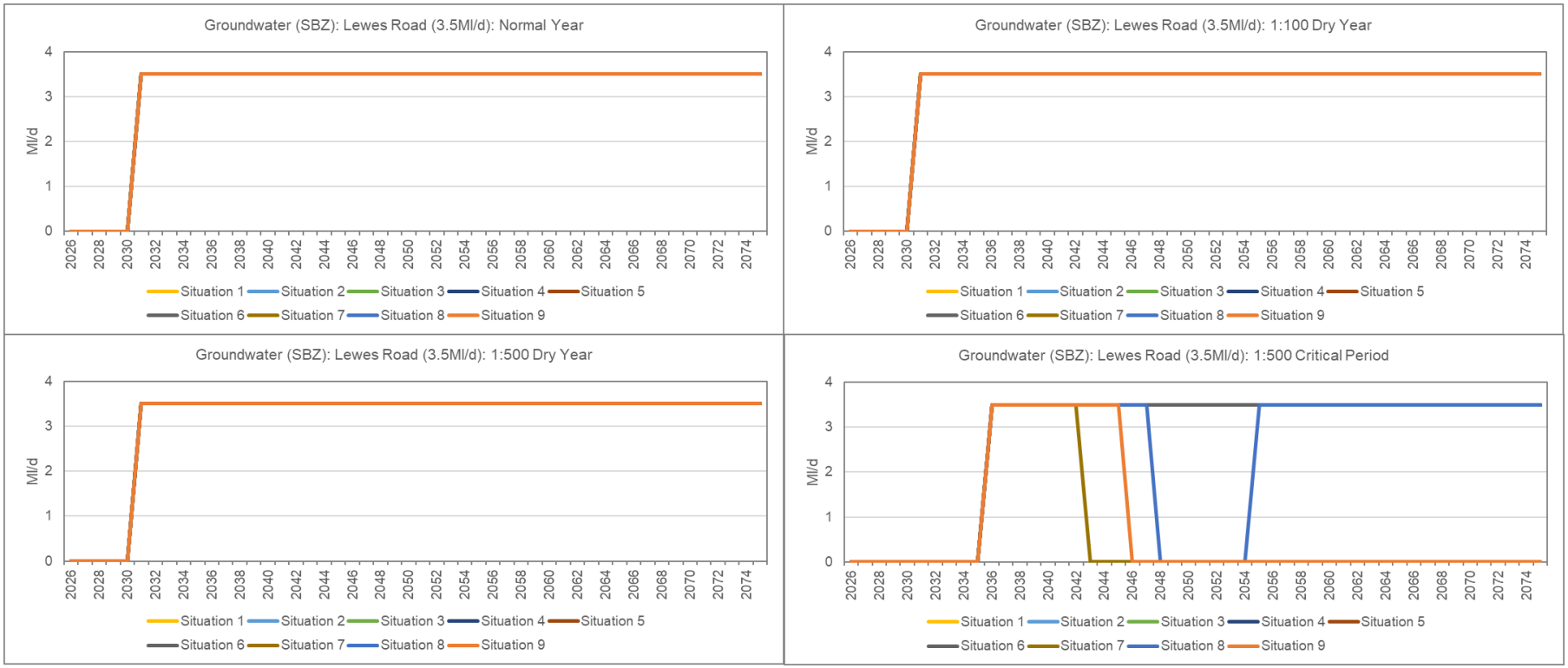

Figure 107: Utilisation of Lewes Road groundwater option in SBZ in each supply-demand situation under each planning scenario.

Figure 108: Utilisation of Petworth groundwater option in SNZ in each supply-demand situation under each planning scenario.

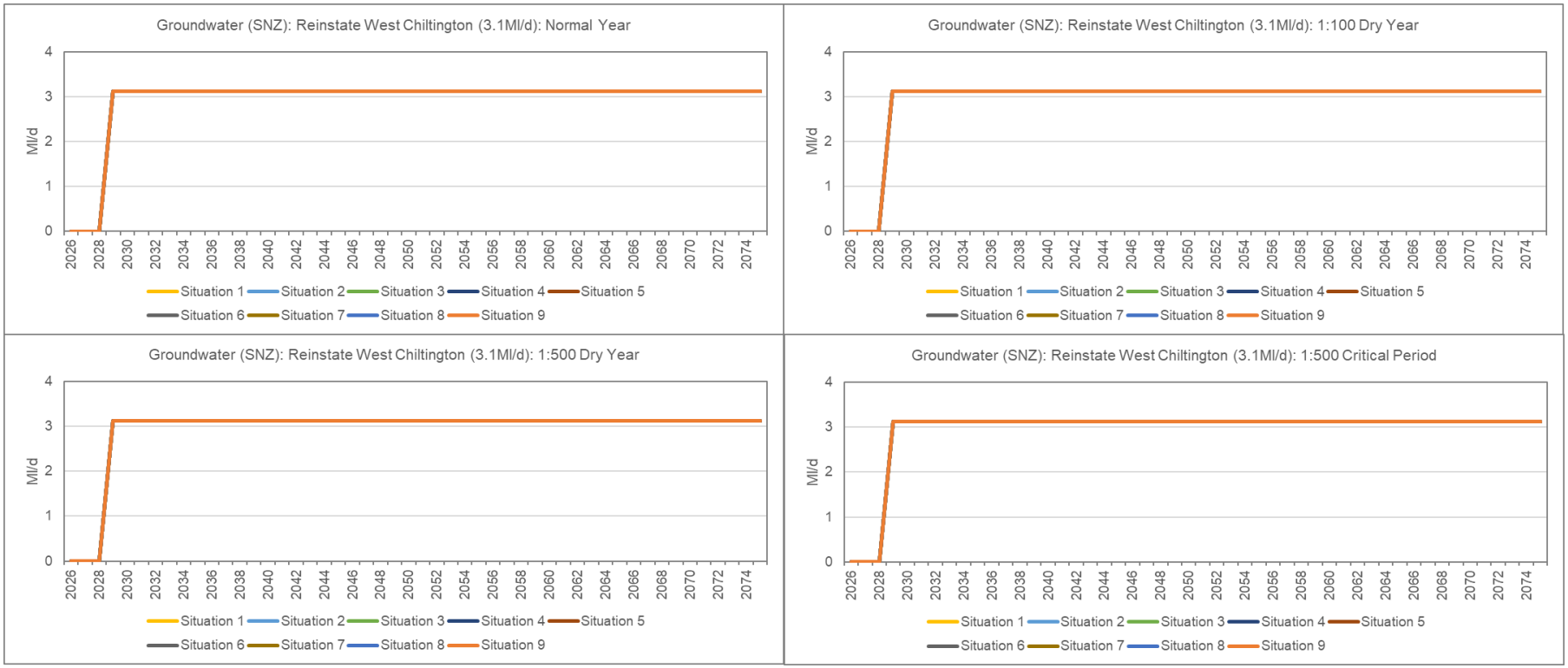

Figure 109: Utilisation of West Chiltington groundwater option in SNZ in each supply-demand situation under each planning scenario.

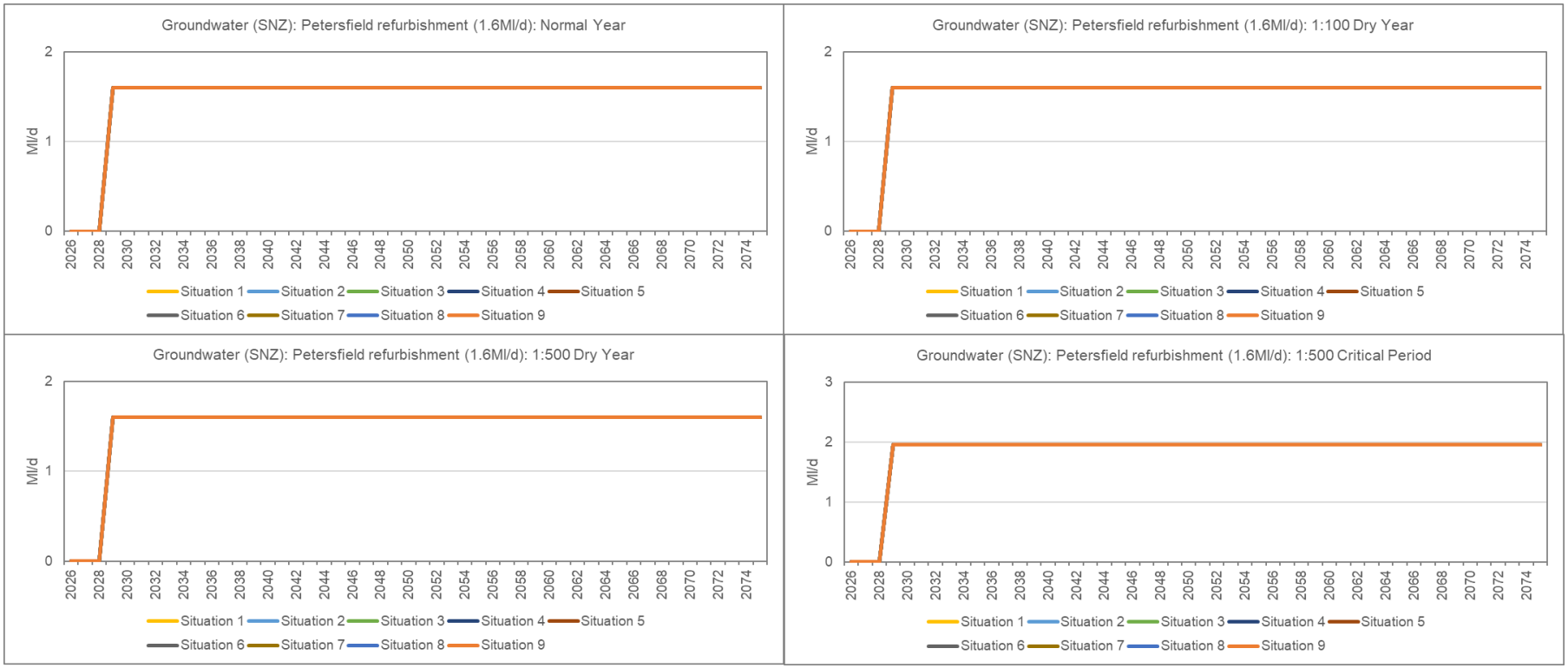

Figure 110: Utilisation of Petersfield groundwater option in SNZ in each supply-demand situation under each planning scenario.

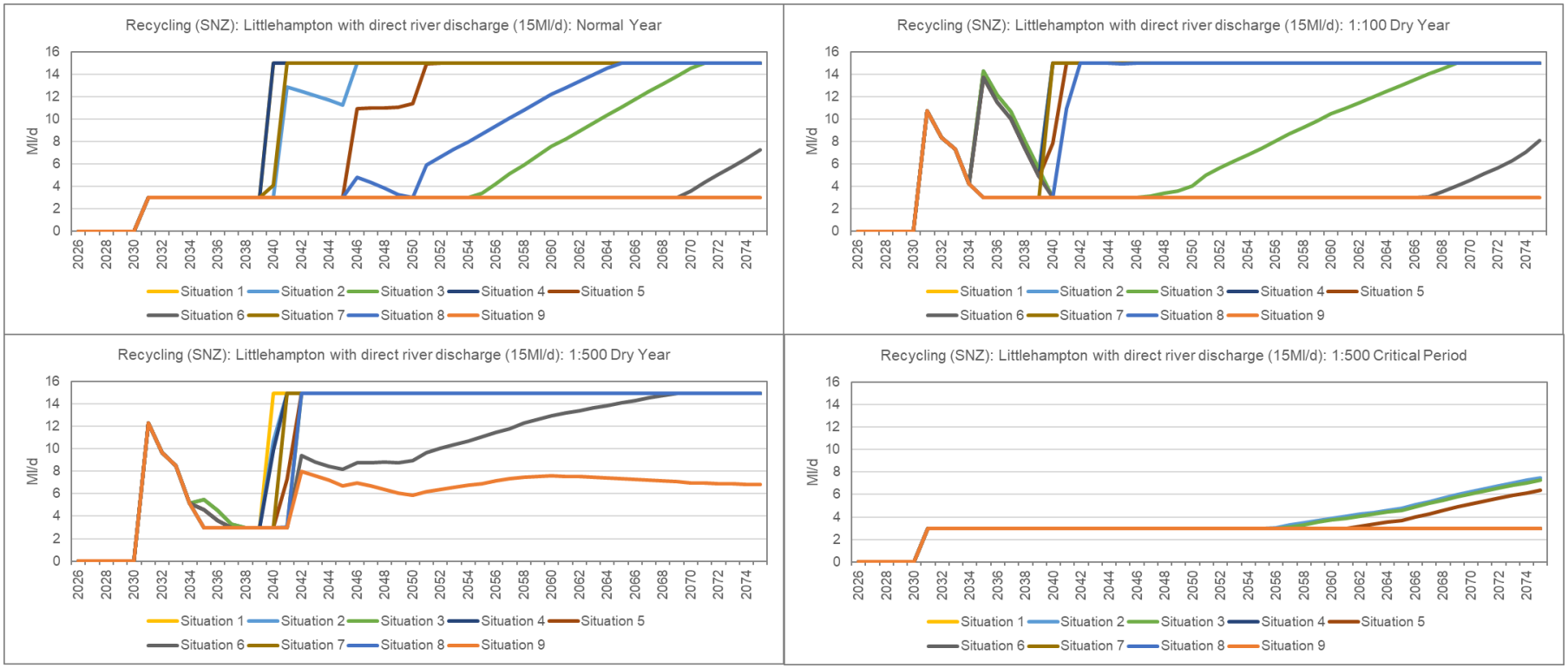

Figure 111: Utilisation of Littlehampton recycling option in SNZ in each supply-demand situation under each planning scenario.

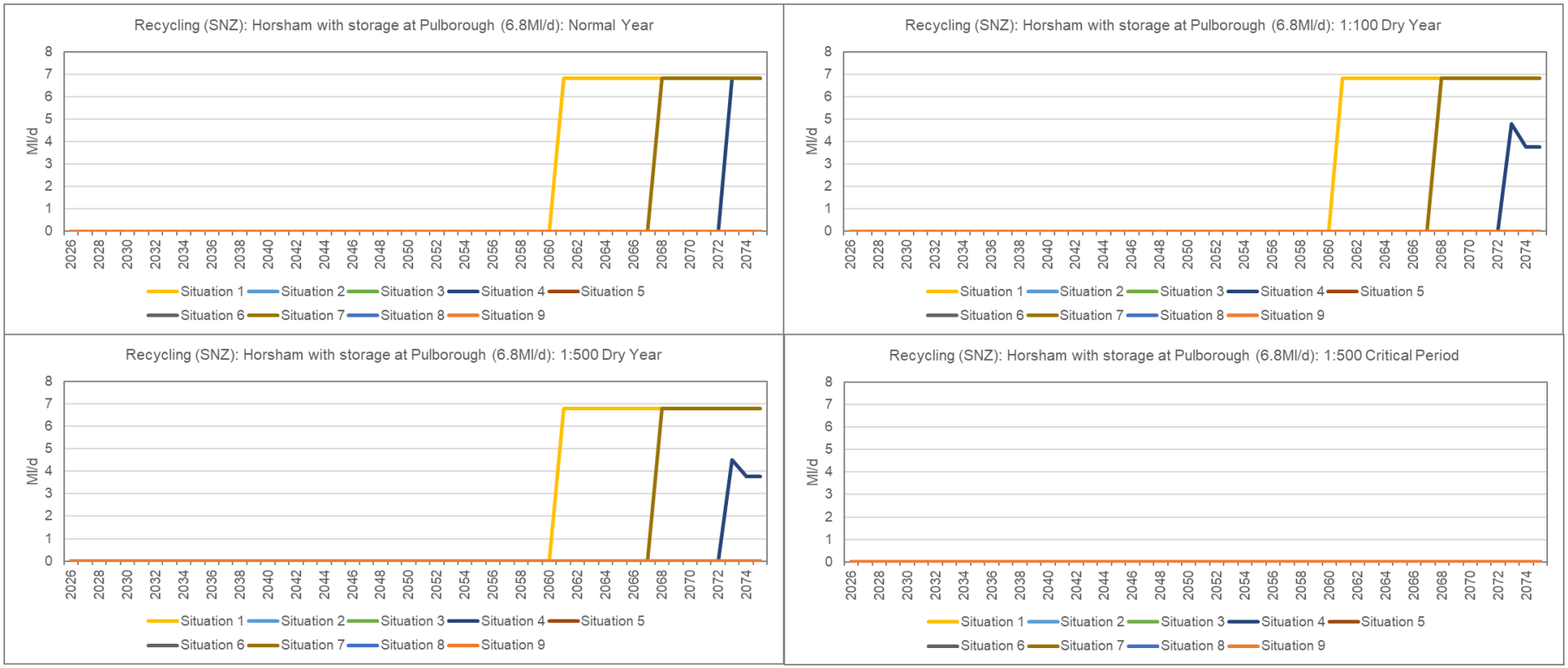

Figure 112: Utilisation of Horsham recycling option in SNZ in each supply-demand situation under each planning scenario.

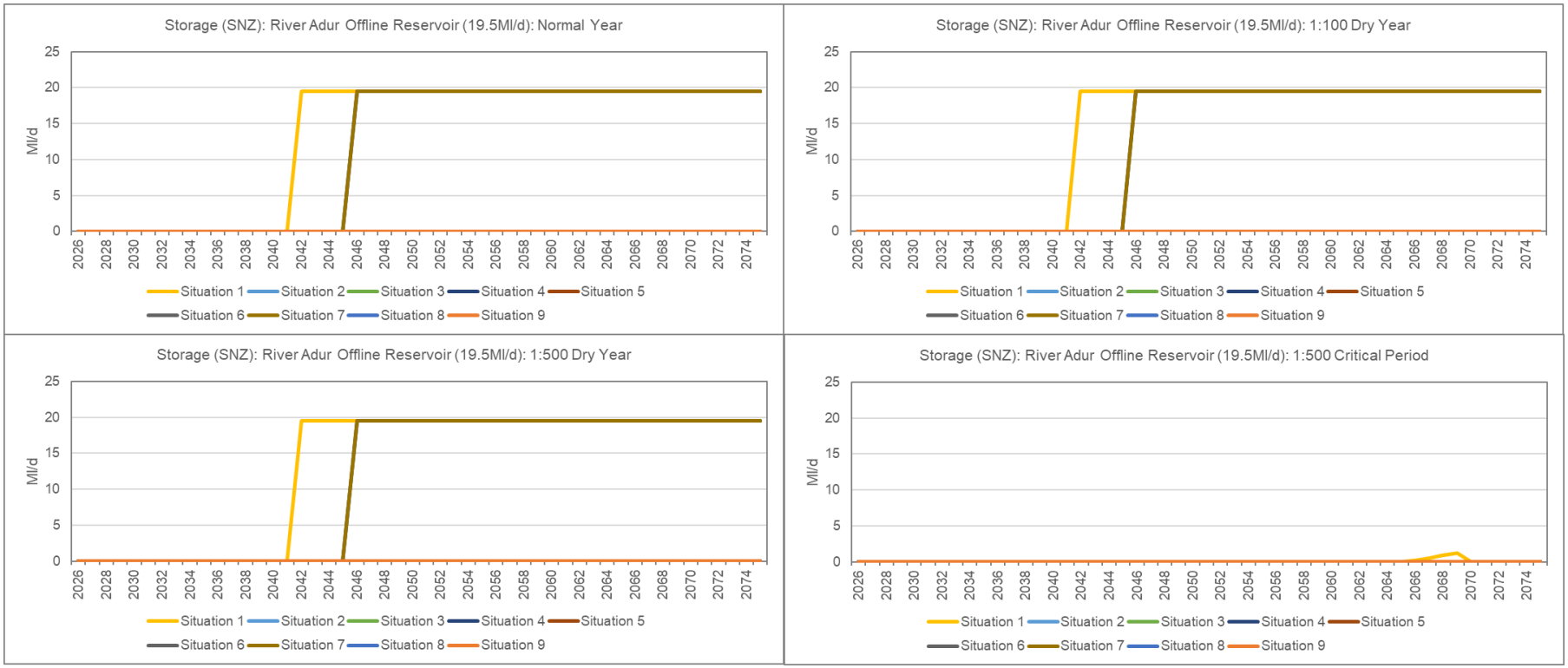

Figure 113: Utilisation of River Adur Offline Reservoir in SNZ in each supply-demand situation under each planning scenario.

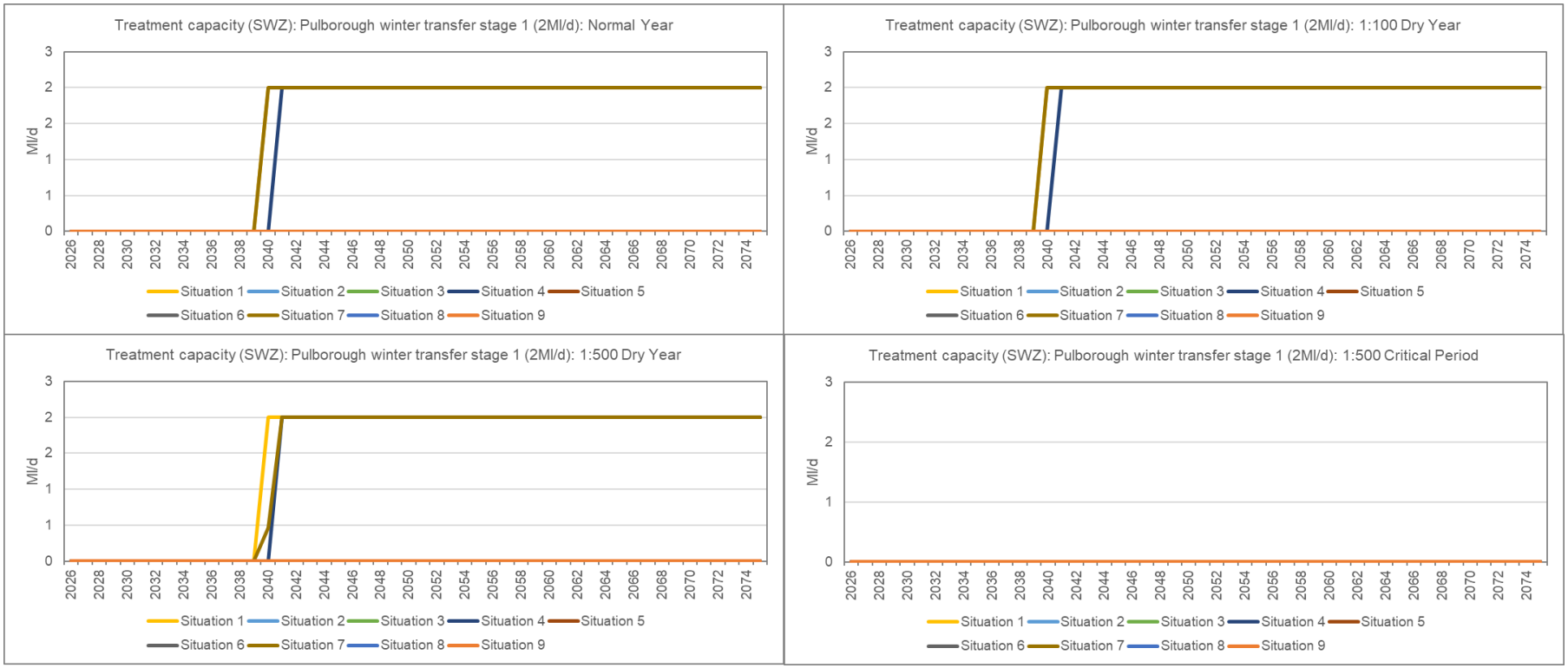

Figure 114: Utilisation of Pulborough winter transfer stage 1 option in SNZ in each supply-demand situation under each planning scenario.

3.4.3 Eastern area

Utilisation of supply-side options in the Western area is shown in Figure 115 to Figure 144, excluding interzonal transfers.

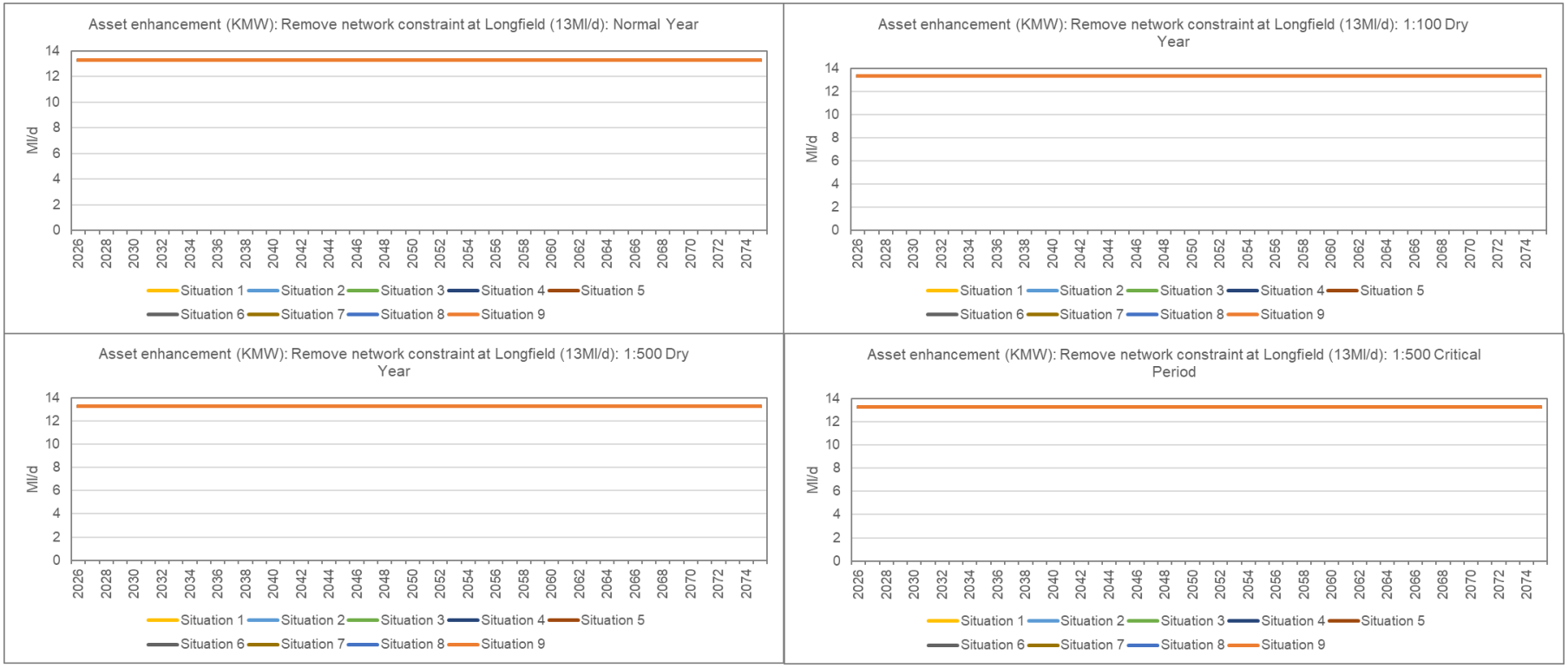

Figure 115: Utilisation of asset enhancement option in KMW in each supply-demand situation under each planning scenario.

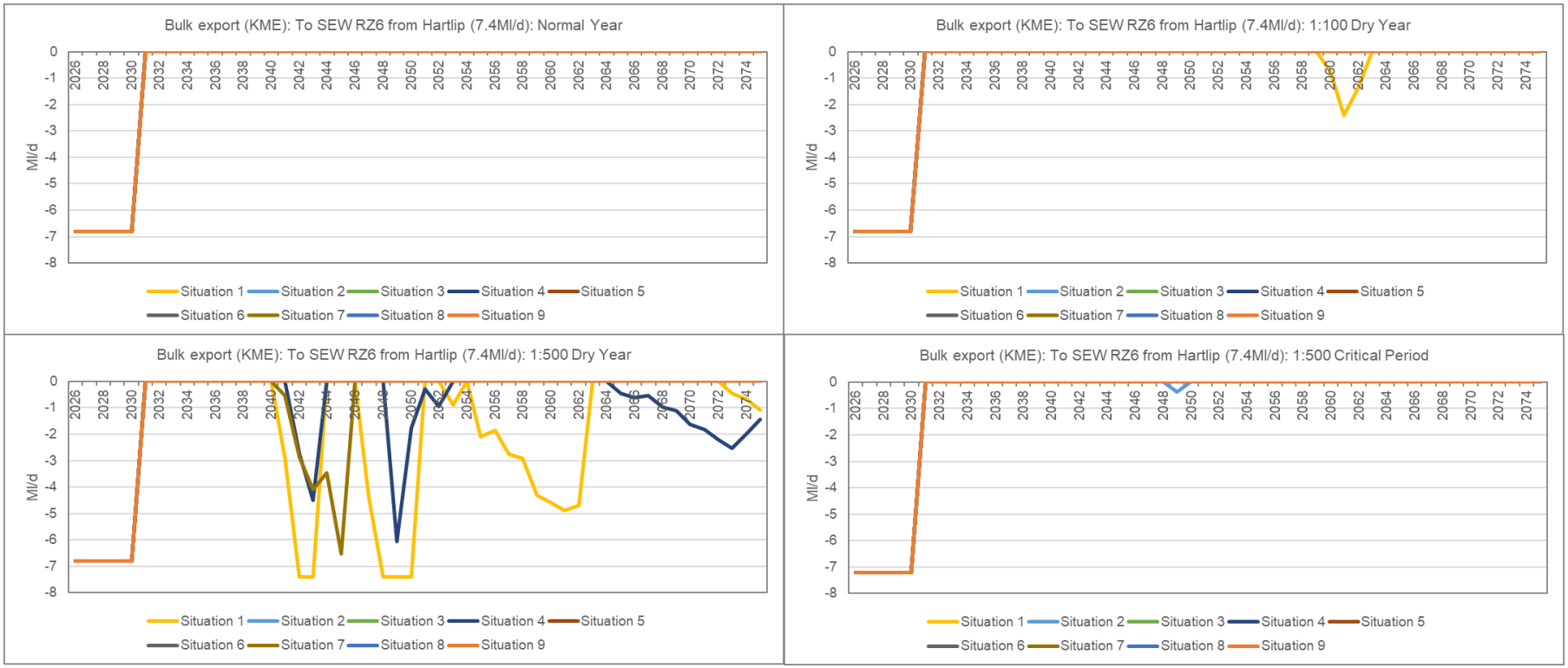

Figure 116: Utilisation of bulk export from KME to South East Water from Hartlip in each supply-demand situation under each planning scenario.

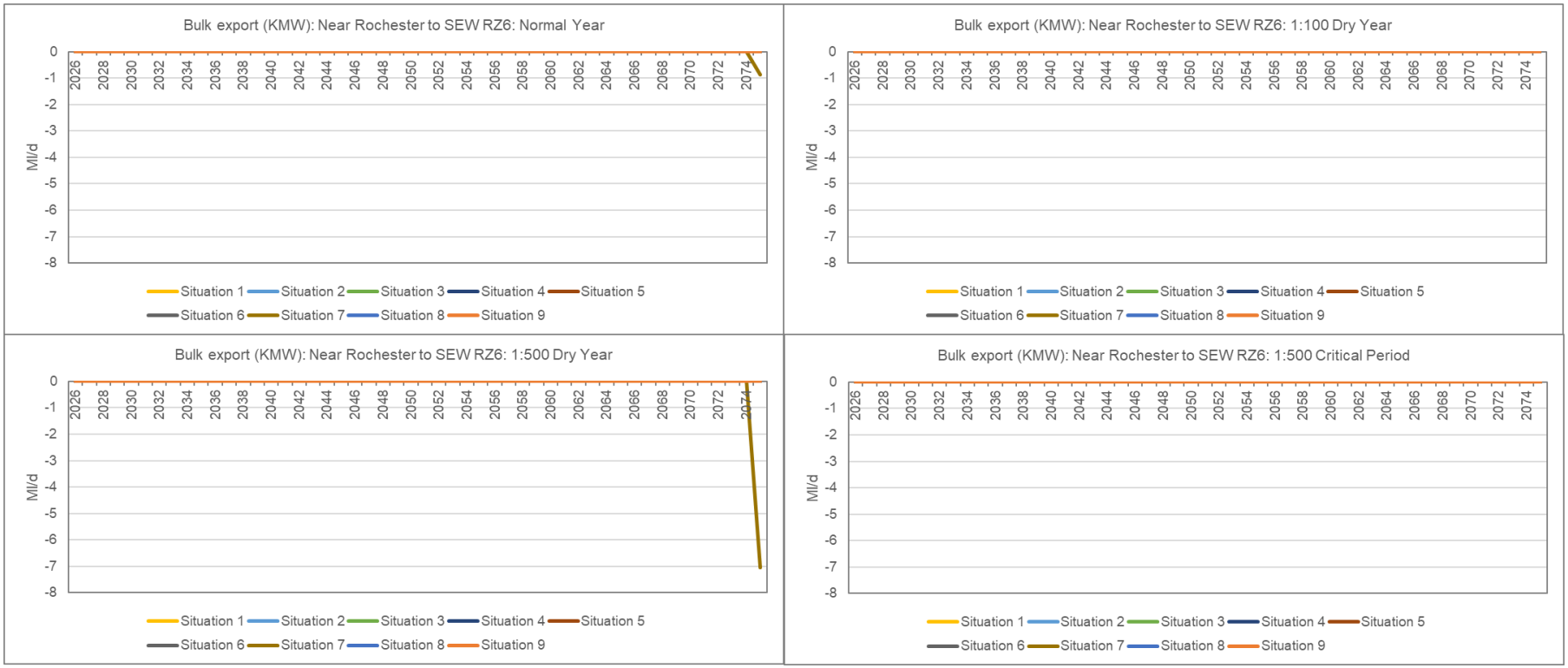

Figure 117: Utilisation of bulk export from KMW to South East Water Resource Zone 6 in each supply-demand situation under each planning scenario.

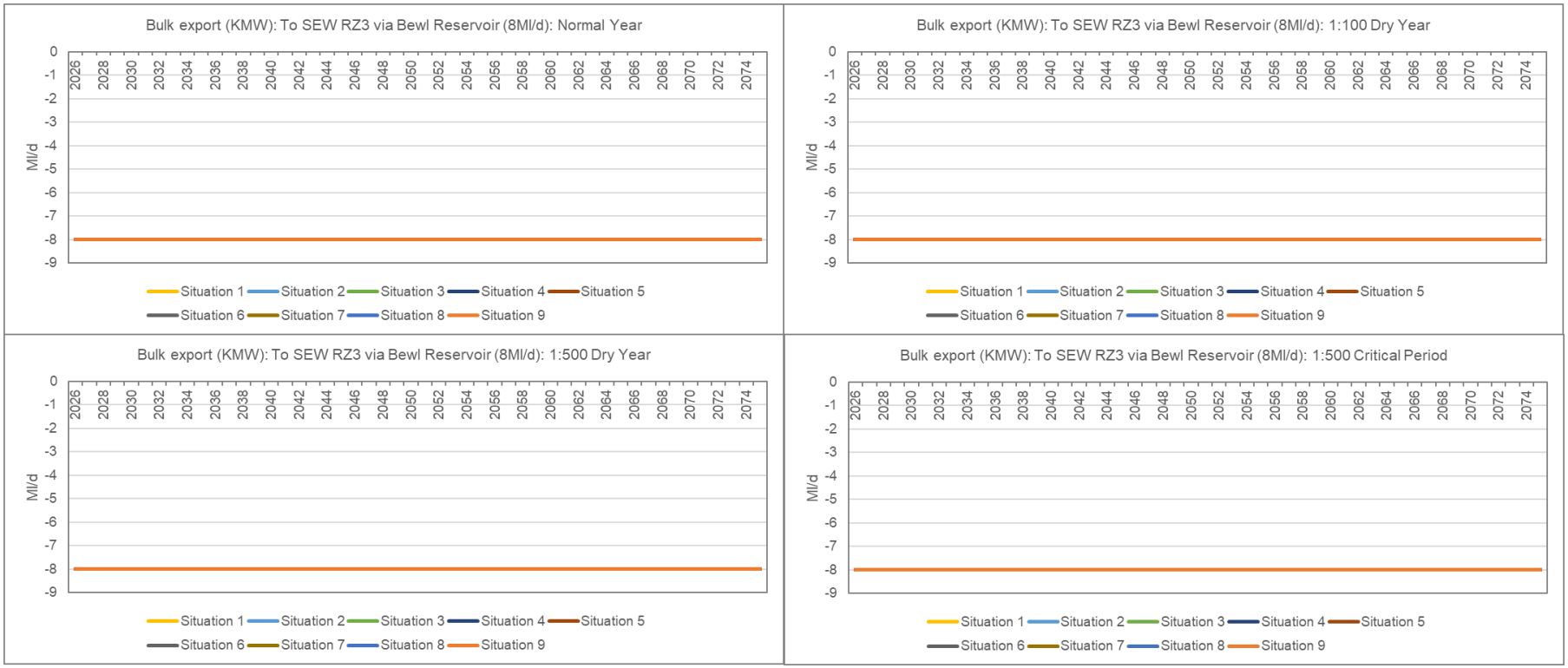

Figure 118: Utilisation of bulk export from KMW to South East Water through the Bewl-Darwell system in each supply-demand situation under each planning scenario.

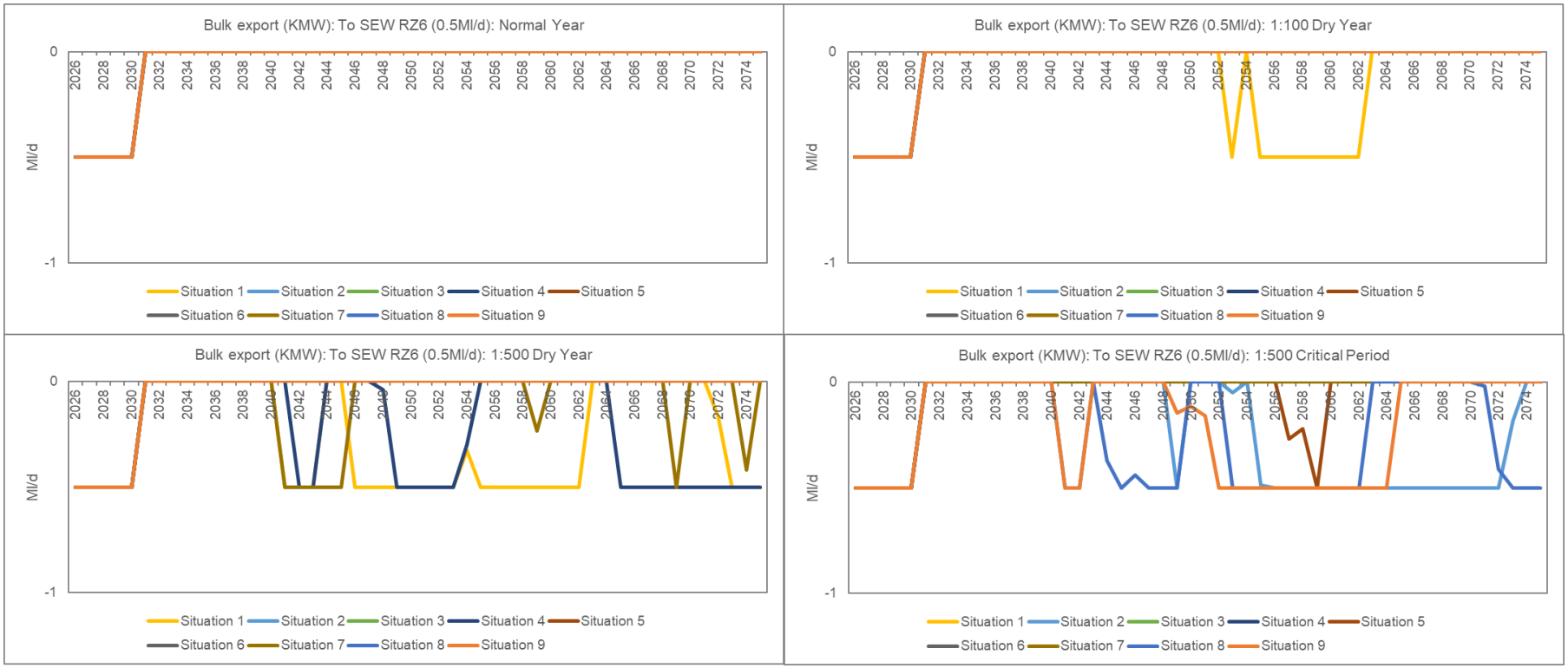

Figure 119: Utilisation of bulk export from KMW to South East Water at Pitfield in each supply-demand situation under each planning scenario.

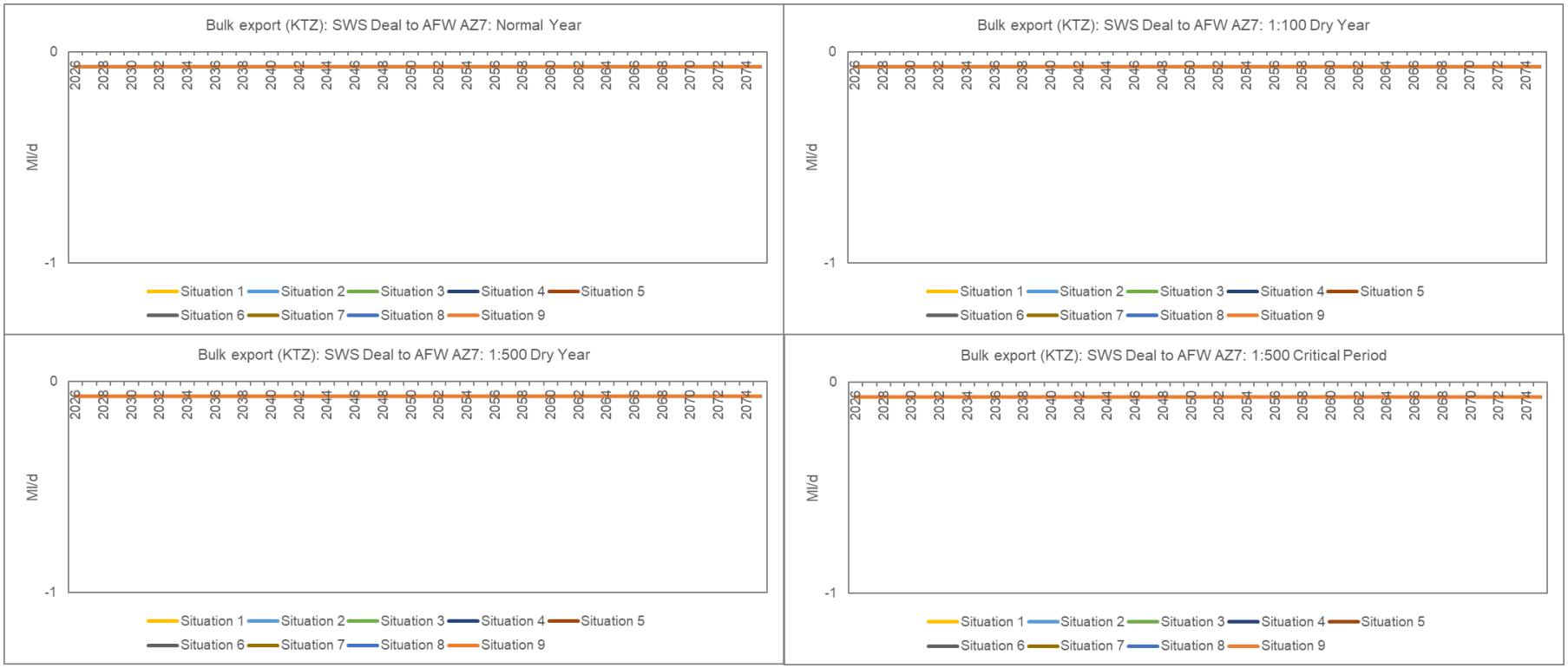

Figure 120: Utilisation of bulk export from KTZ to Affinity Water in each supply-demand situation under each planning scenario.

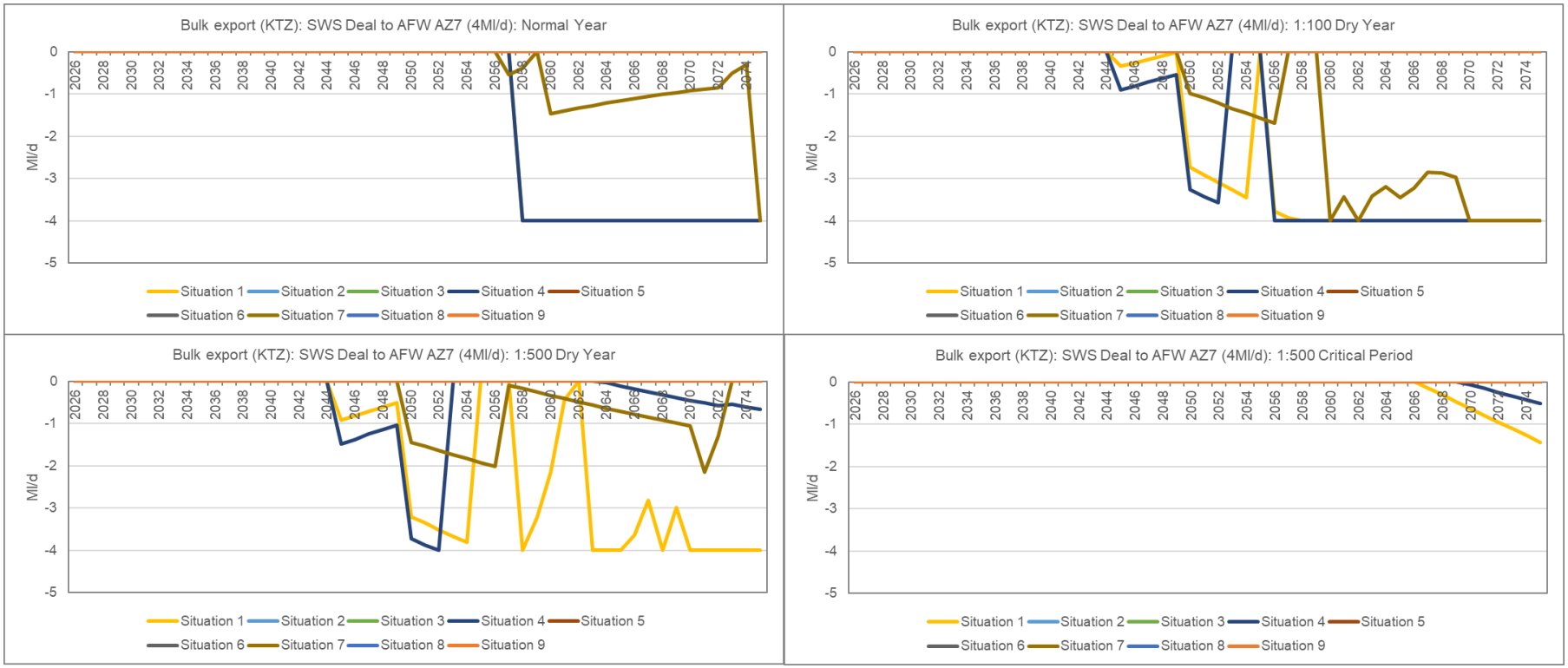

Figure 121: Utilisation of bulk export from KTZ to Affinity Water from Deal in each supply-demand situation under each planning scenario.

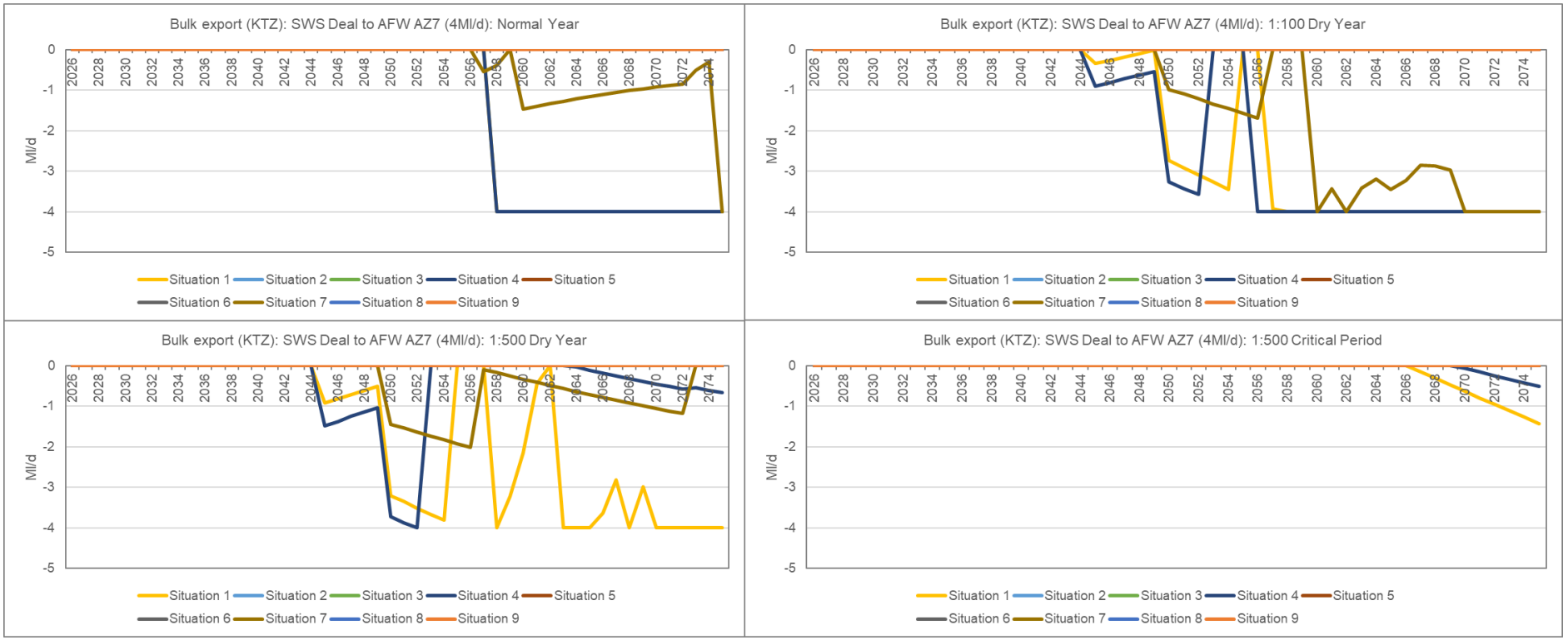

Figure 122: Utilisation of bulk export from KTZ to Affinity Water from Deal in each supply-demand situation under each planning scenario.

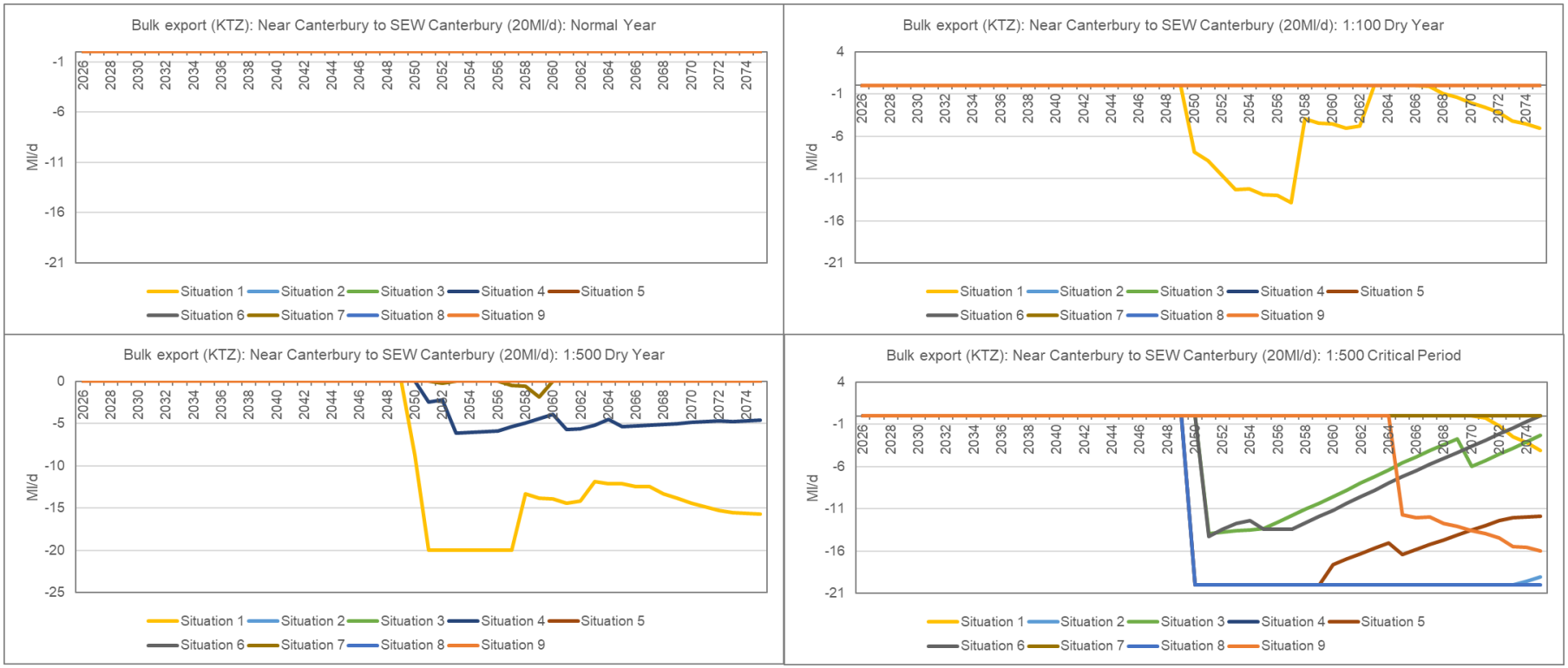

Figure 123: Utilisation of bulk export from KTZ to South East Water in each supply-demand situation under each planning scenario.

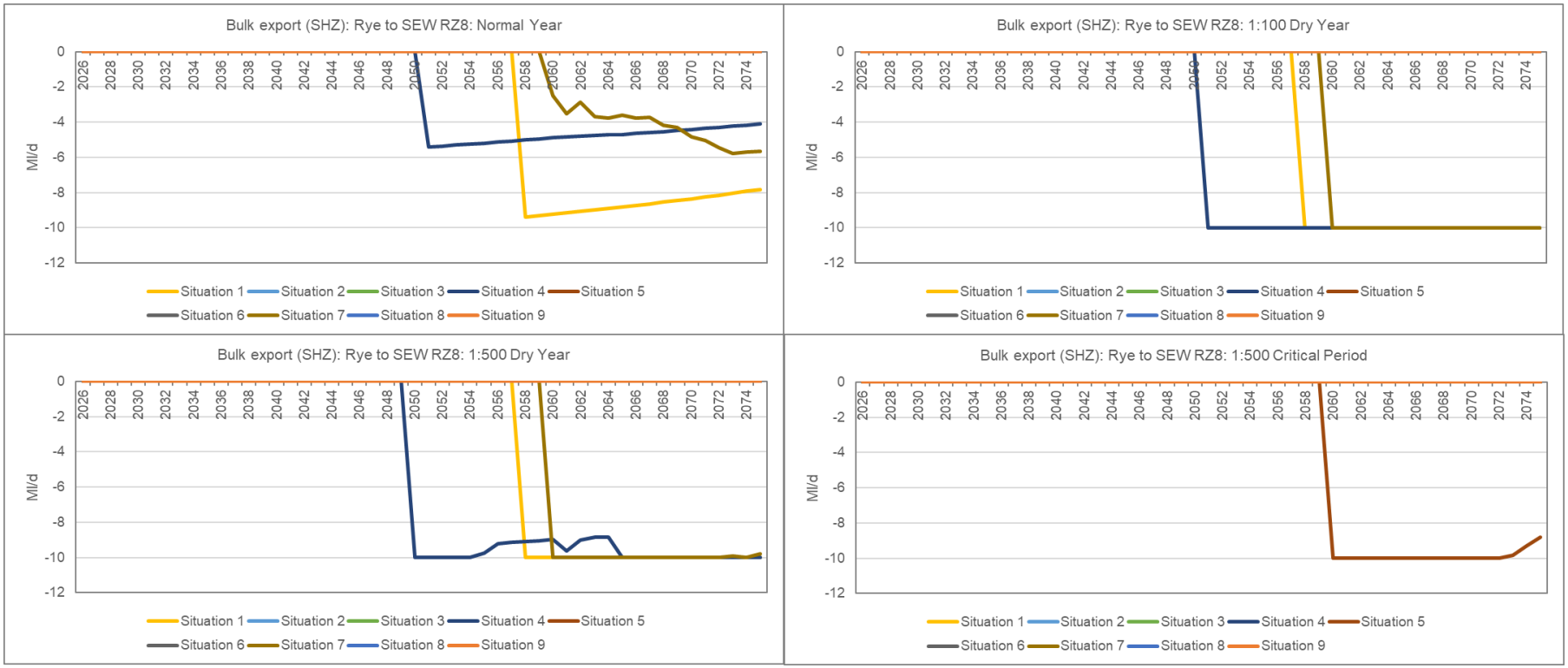

Figure 124: Utilisation of bulk export from SHZ to South East Water at Kingsnorth in each supply-demand situation under each planning scenario.

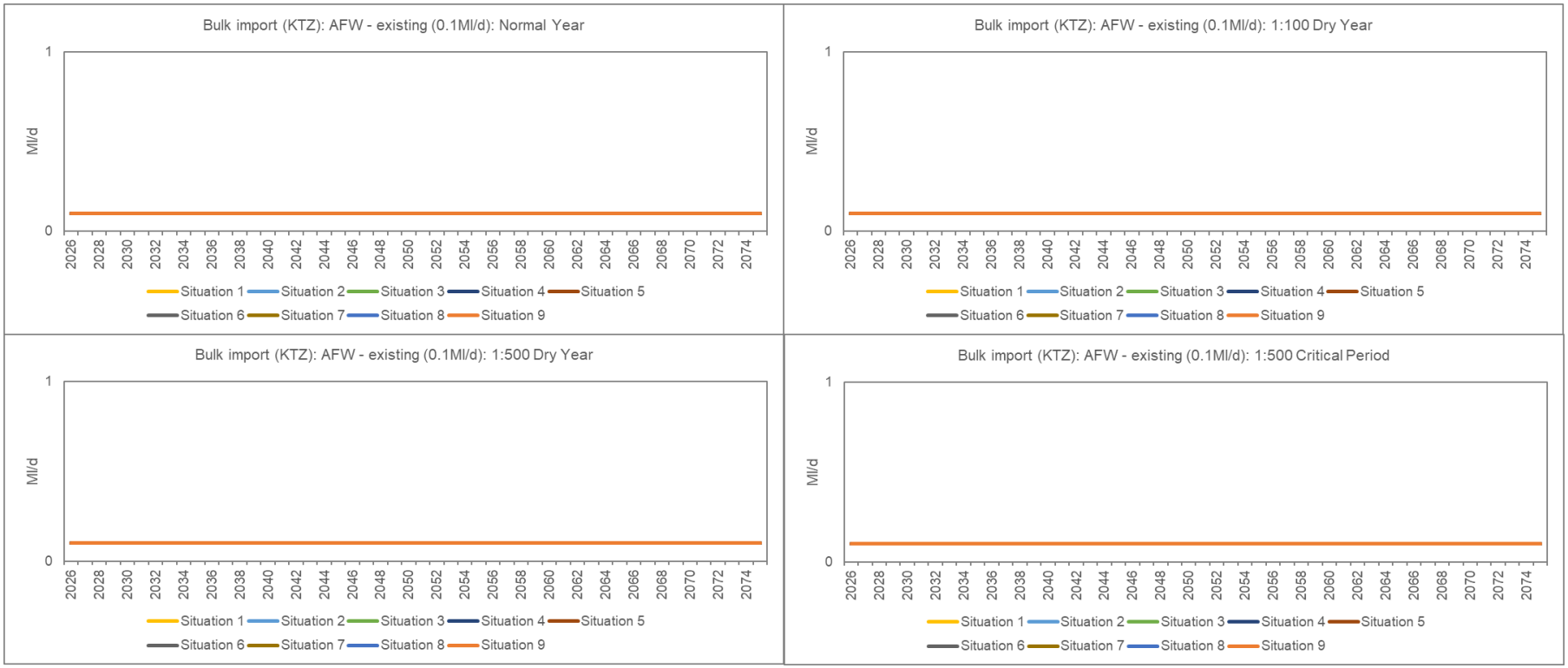

Figure 125: Utilisation of bulk import from Affinity Water to KTZ in each supply-demand situation under each planning scenario.

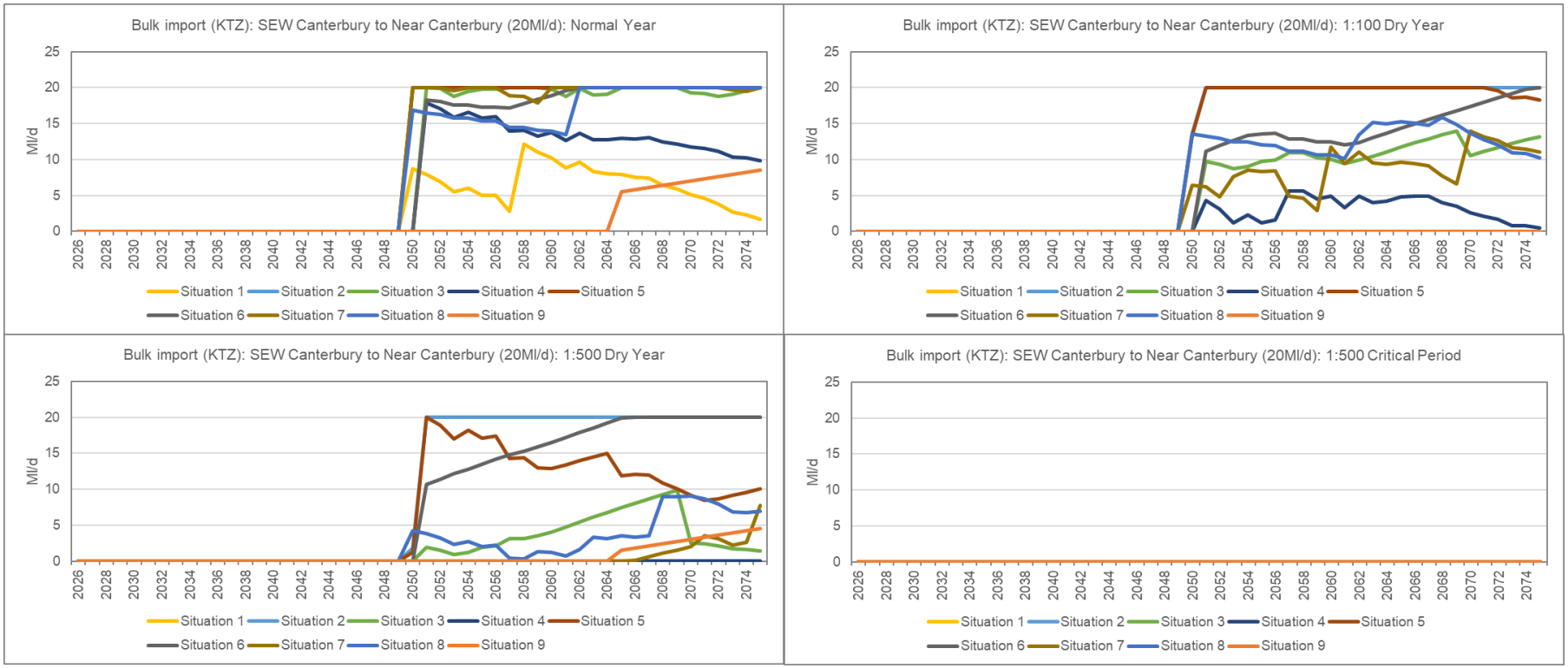

Figure 126: Utilisation of bulk import from South East Water to Near Canterbury in KTZ in each supply-demand situation under each planning scenario.

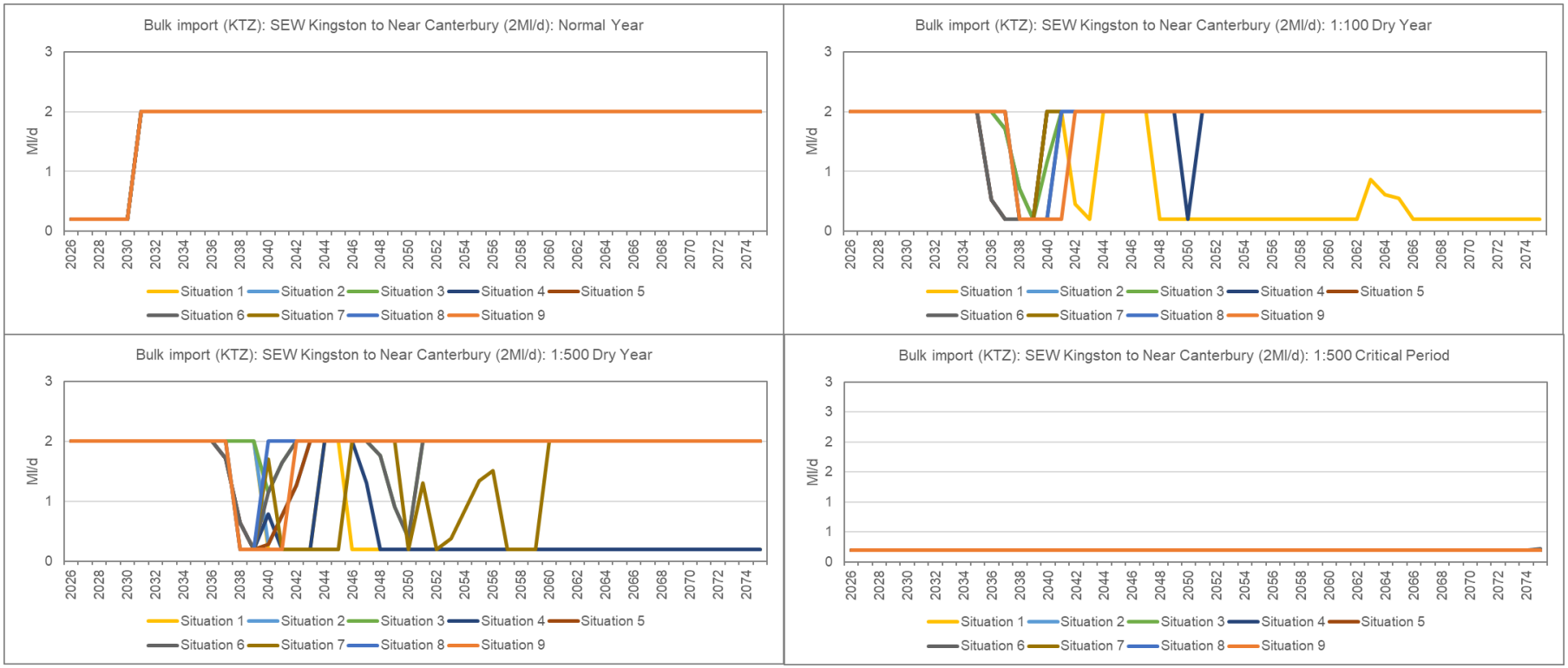

Figure 127: Utilisation of bulk import from South East Water near Kingston to KTZ in each supply-demand situation under each planning scenario.

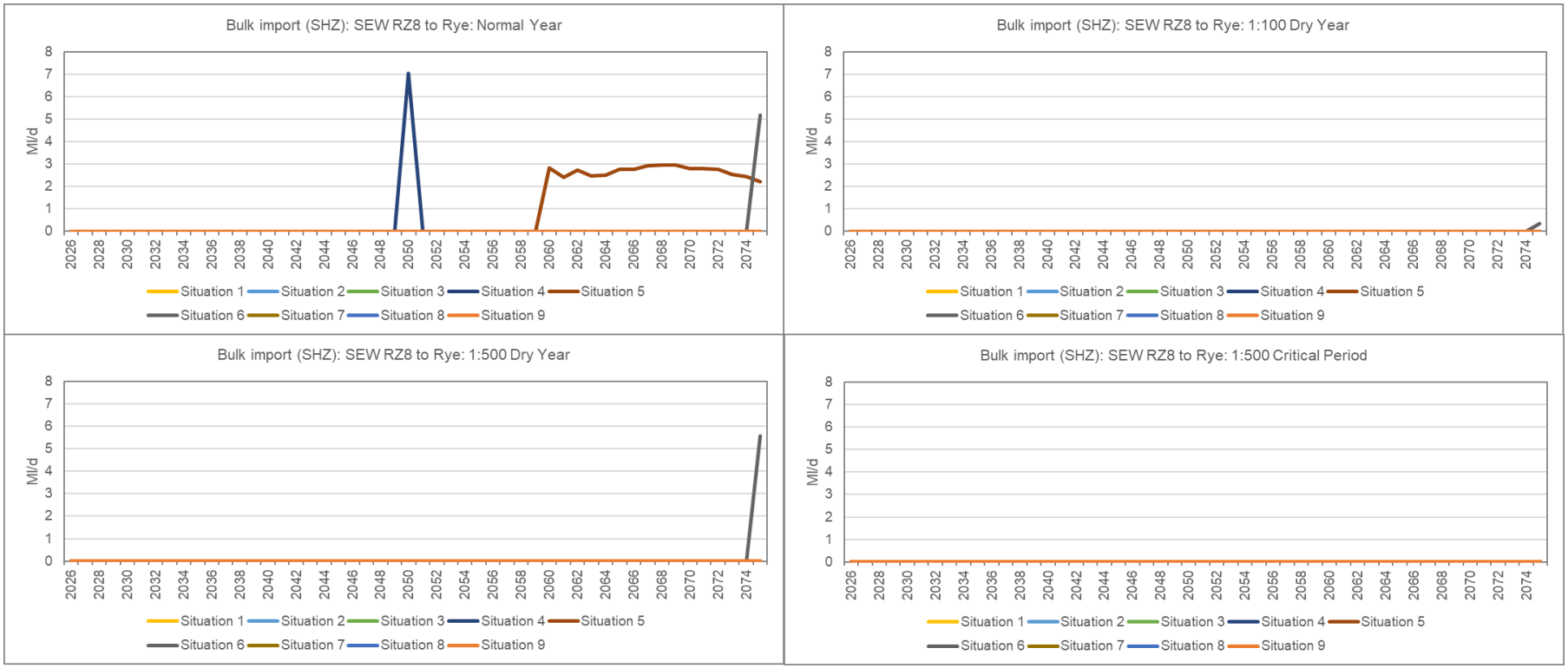

Figure 128: Utilisation of bulk import from South East Water to SHZ near Rye in each supply-demand situation under each planning scenario.

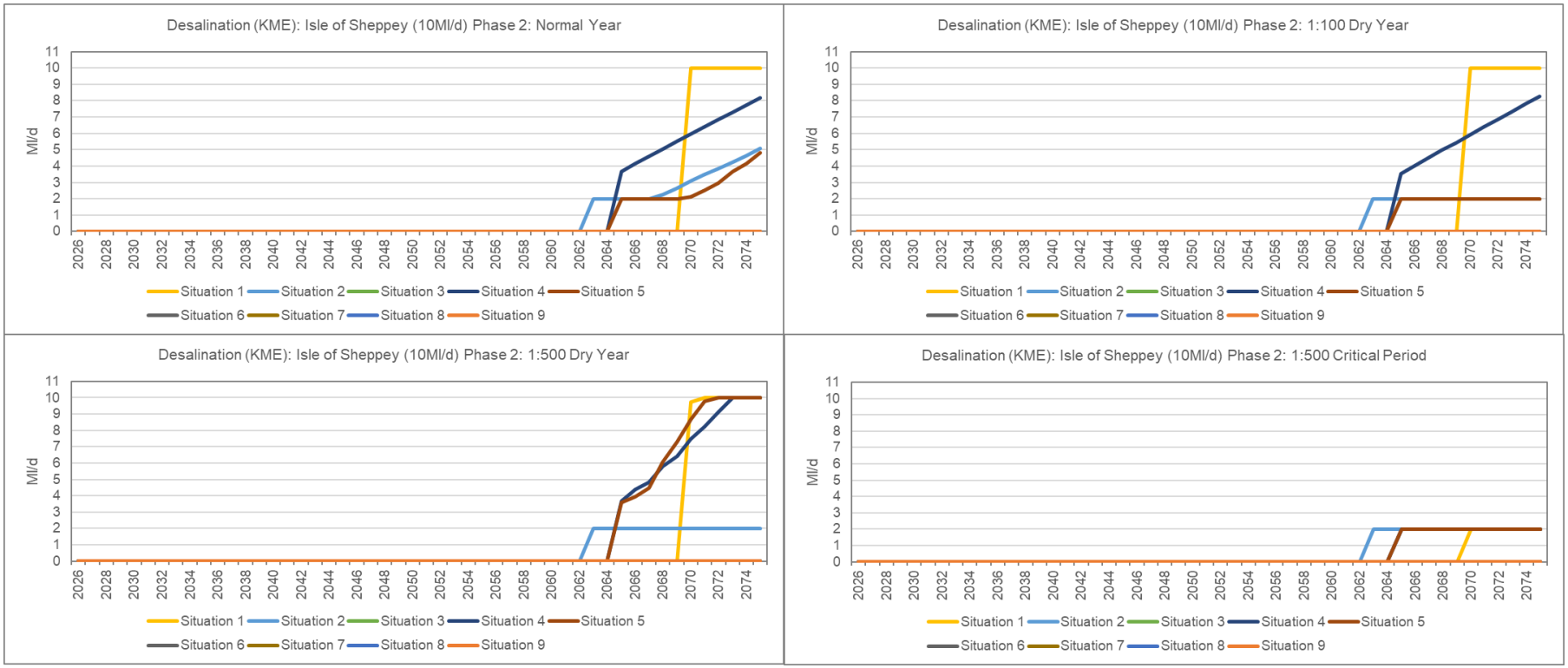

Figure 129: Utilisation of Isle of Sheppey desalination option (10Ml/d Phase 2) in KME in each supply-demand situation under each planning scenario.

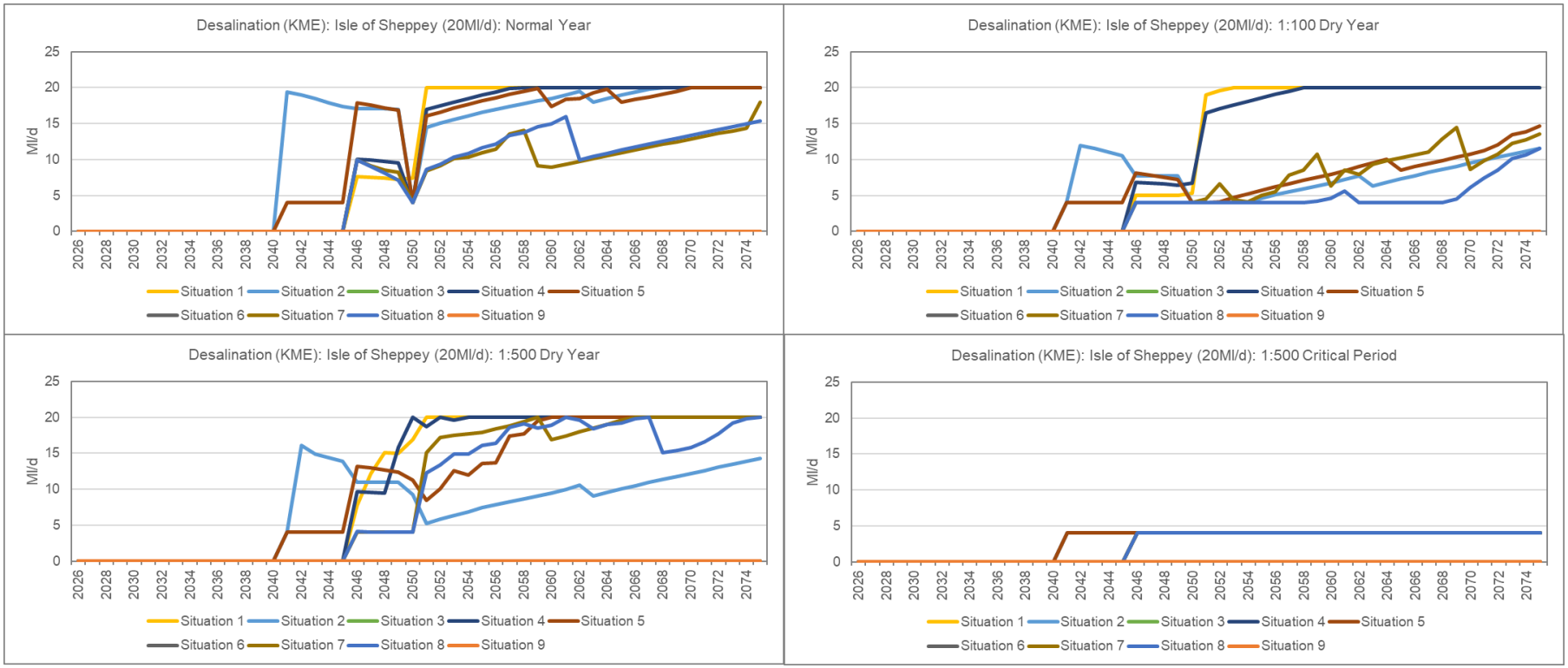

Figure 130: Utilisation of Isle of Sheppey desalination option (20Ml/d) in KME in each supply-demand situation under each planning scenario.

Figure 131: Utilisation of Thames Estuary desalination option (10Ml/d) in KMW in each supply-demand situation under each planning scenario.

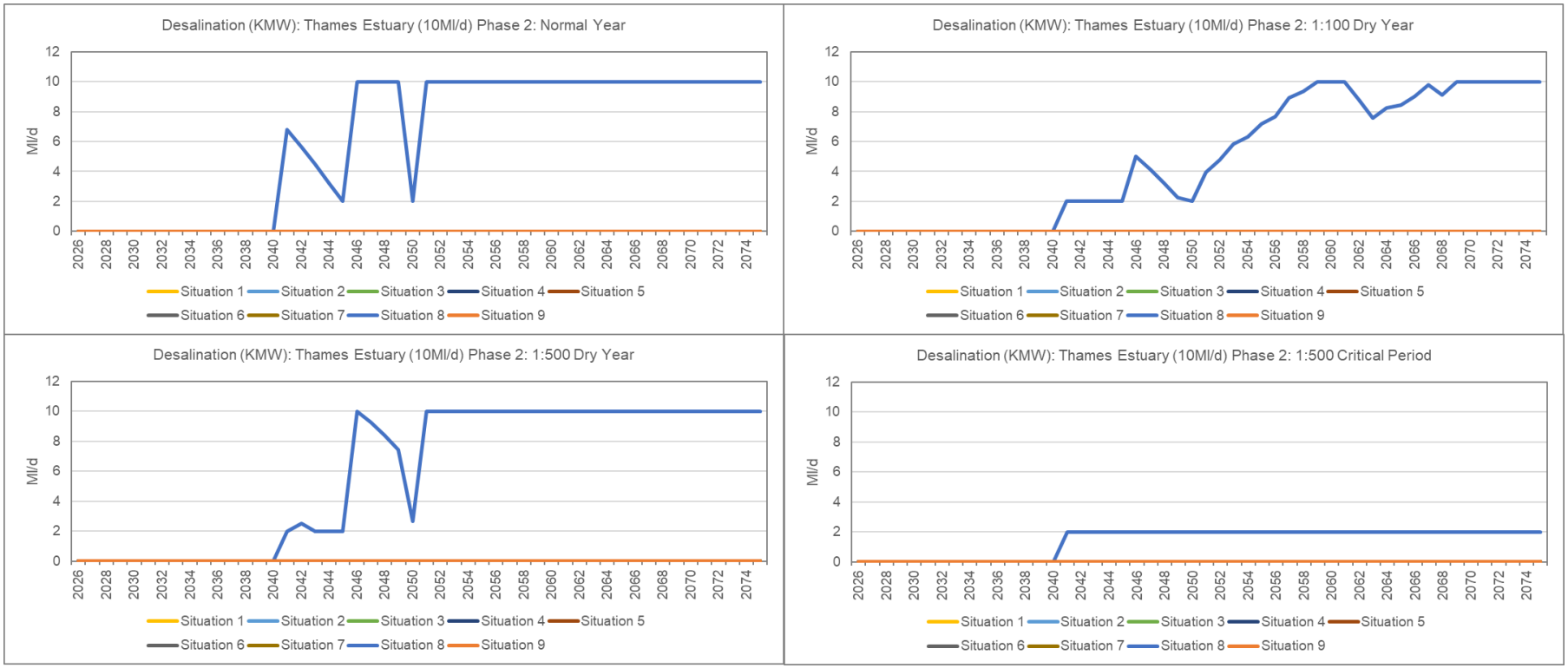

Figure 132: Utilisation of Thames Estuary desalination option (10Ml/d Phase 2) in KMW in each supply-demand situation under each planning scenario.

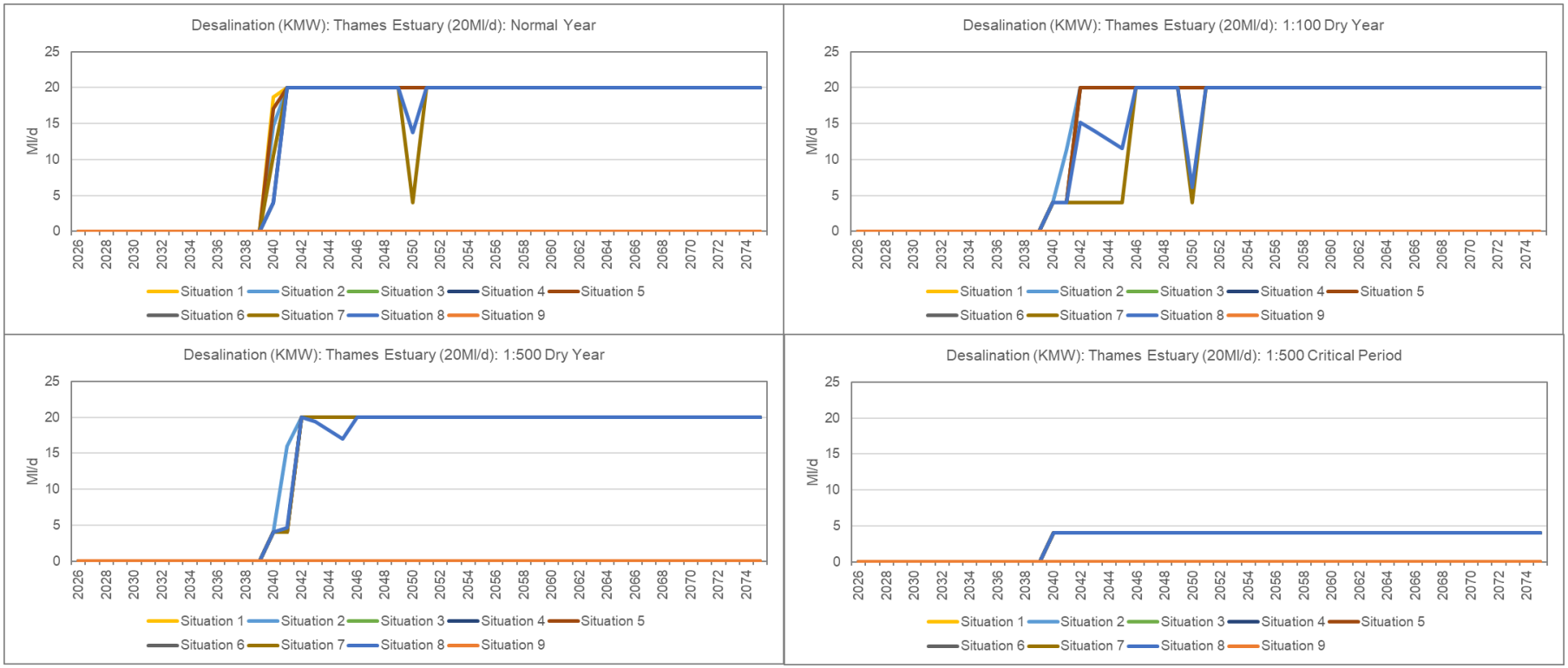

Figure 133: Utilisation of Thames Estuary desalination option (20Ml/d) in KMW in each supply-demand situation under each planning scenario.

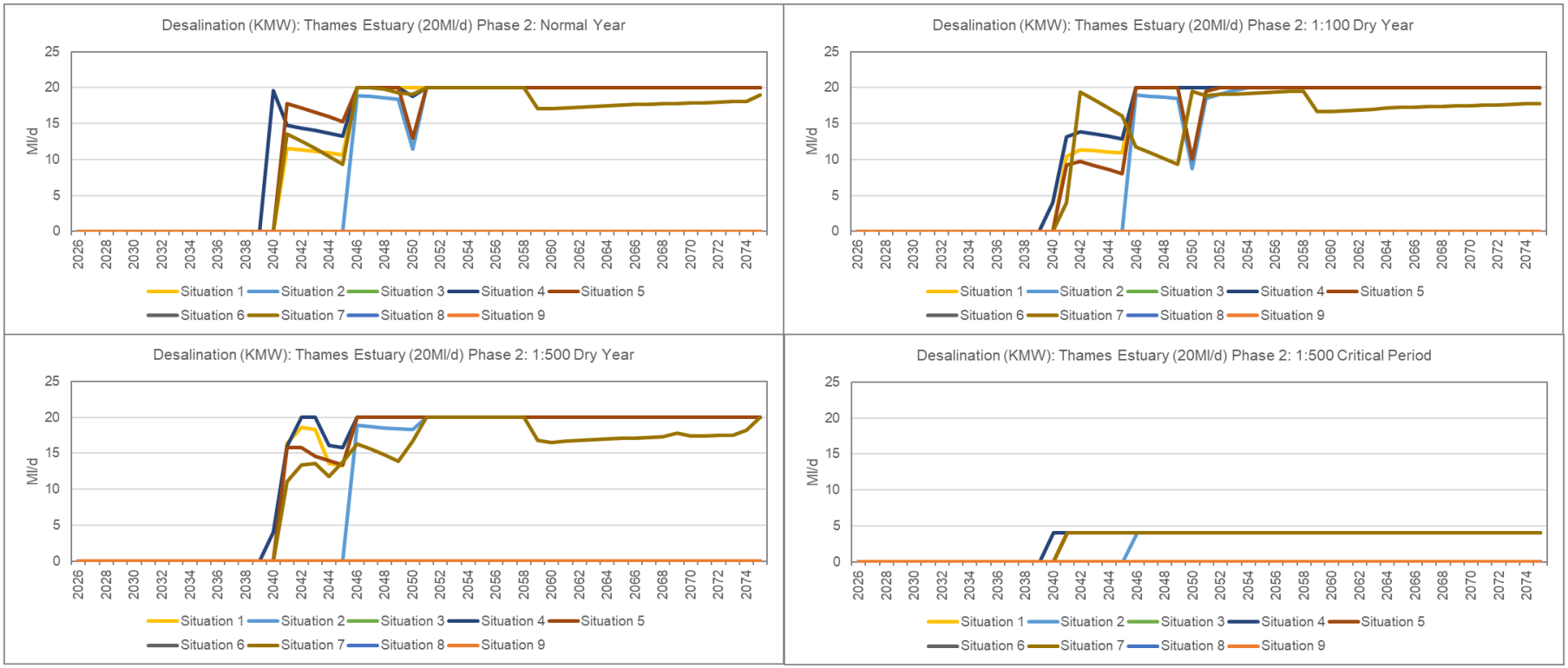

Figure 134: Utilisation of Thames Estuary desalination option (20Ml/d Phase 2) in KMW in each supply-demand situation under each planning scenario.

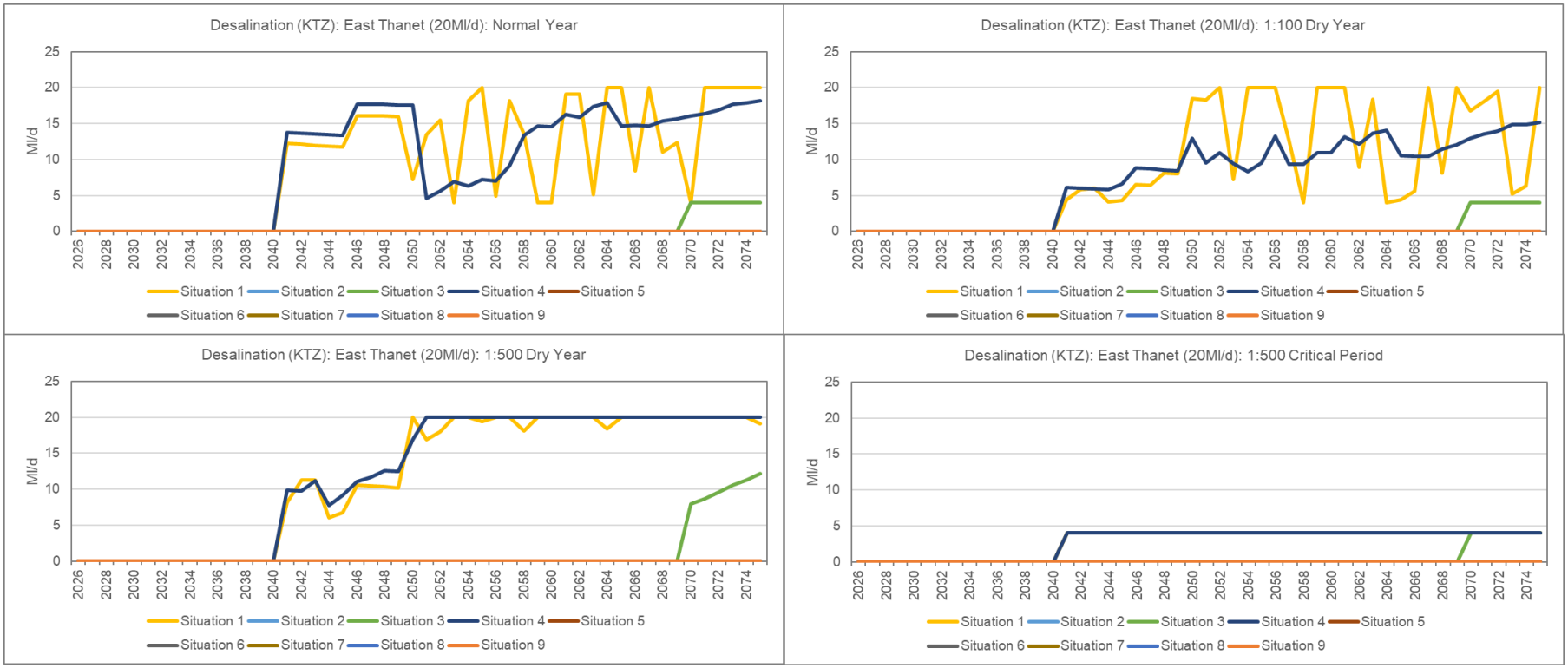

Figure 135: Utilisation of East Thanet desalination option (20Ml/d) in KTZ in each supply-demand situation under each planning scenario.

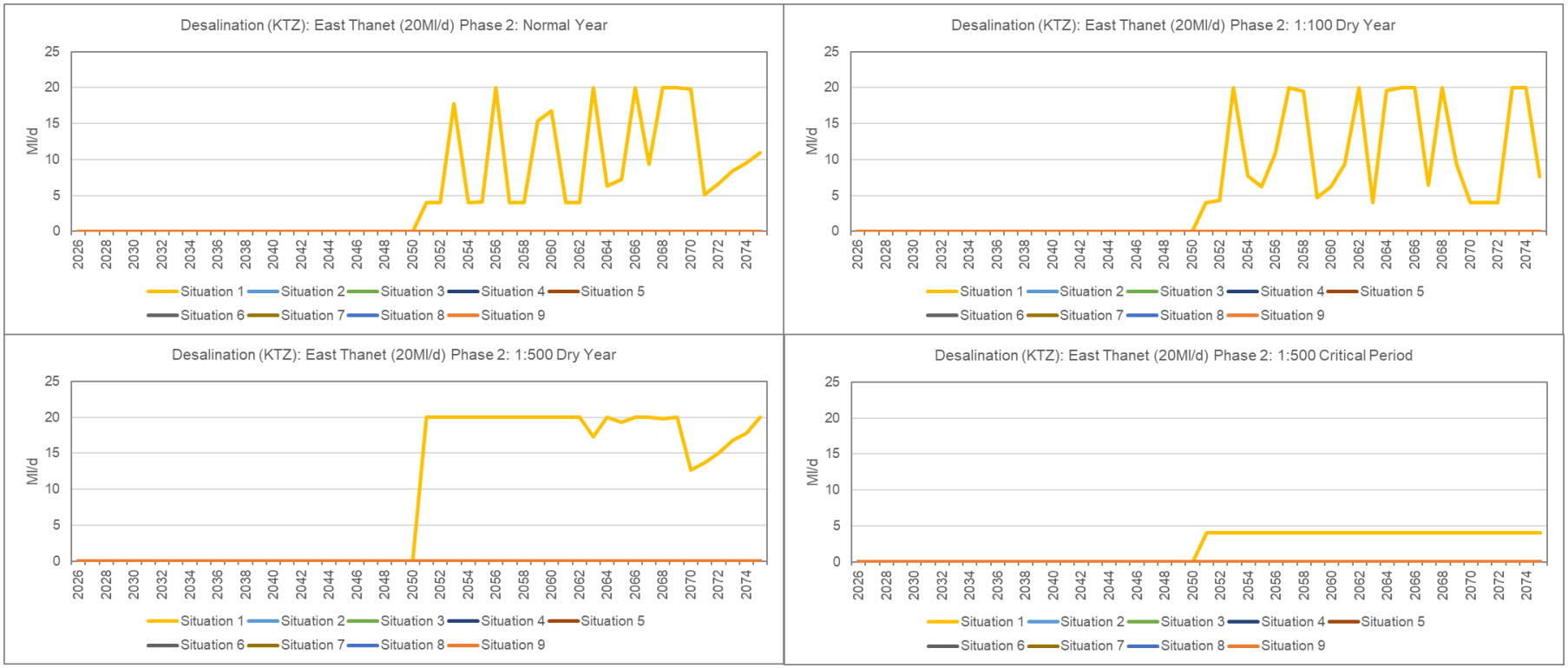

Figure 136: Utilisation of East Thanet desalination option (20Ml/d Phase 2) in KTZ in each supply-demand situation under each planning scenario.

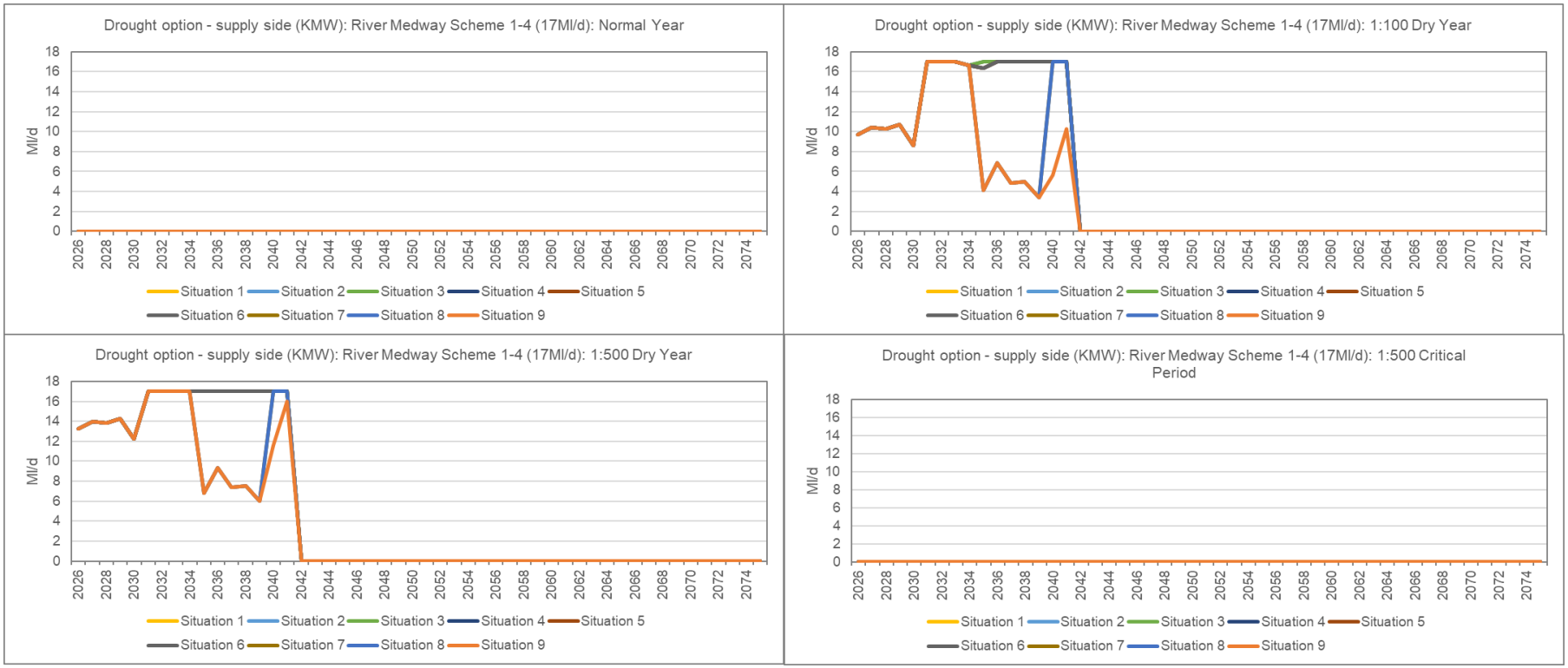

Figure 137: Utilisation of River Medway Scheme in KMW in each supply-demand situation under each planning scenario.

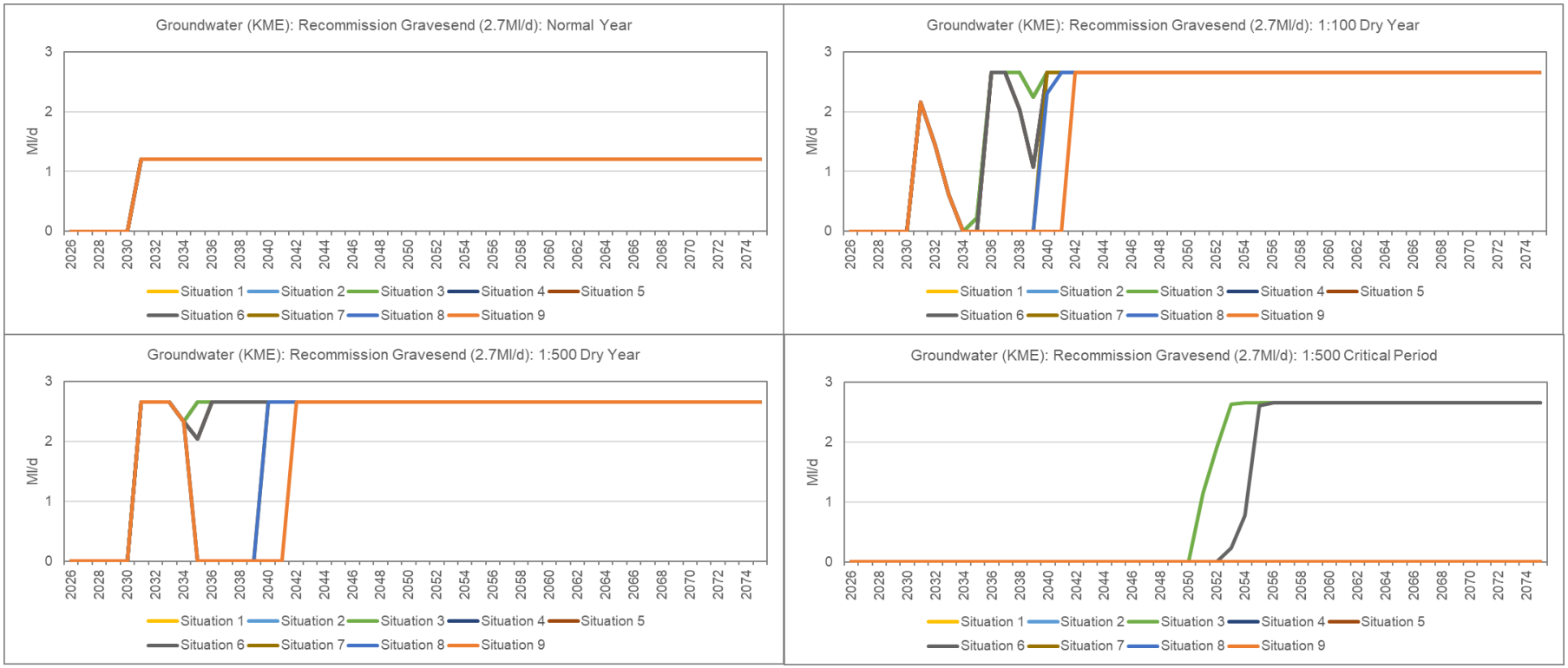

Figure 138: Utilisation of Gravesend groundwater option in KME in each supply-demand situation under each planning scenario.

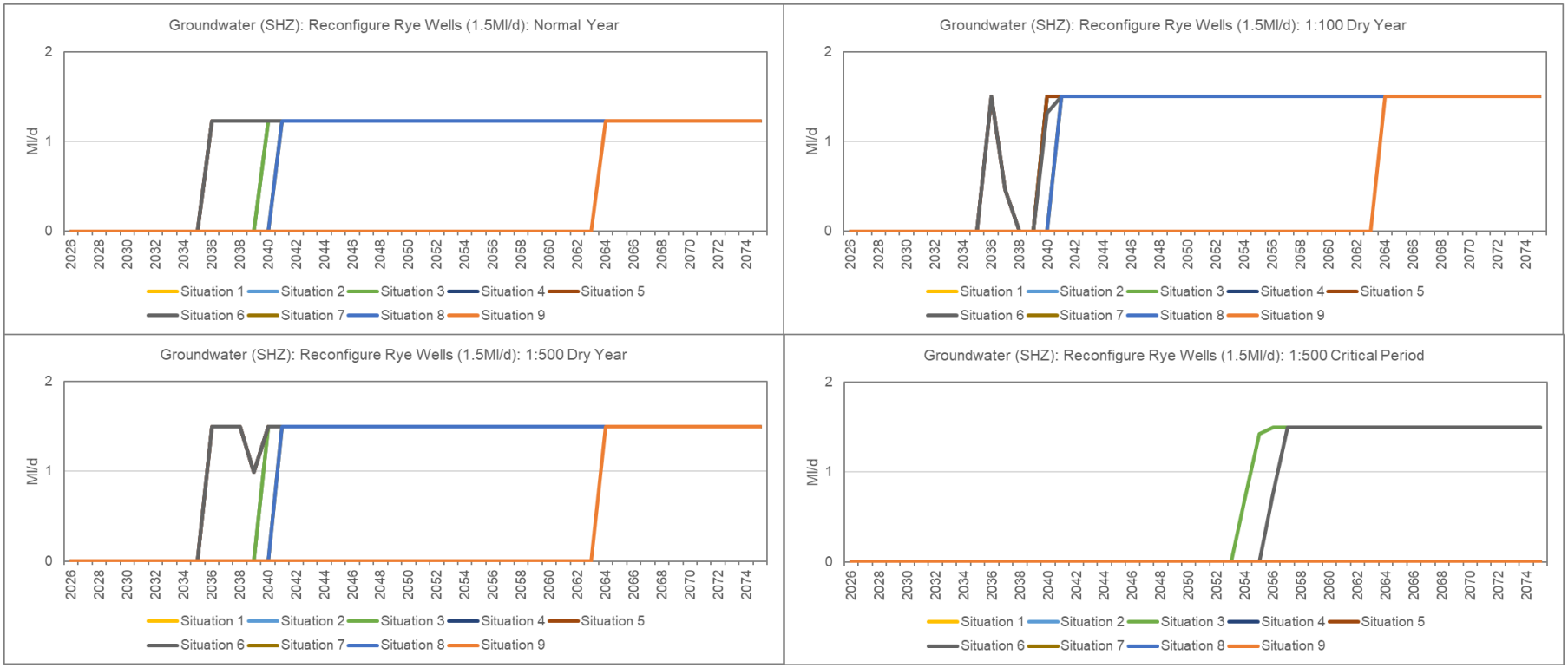

Figure 139: Utilisation of Rye Wells groundwater option in SHZ in each supply-demand situation under each planning scenario.

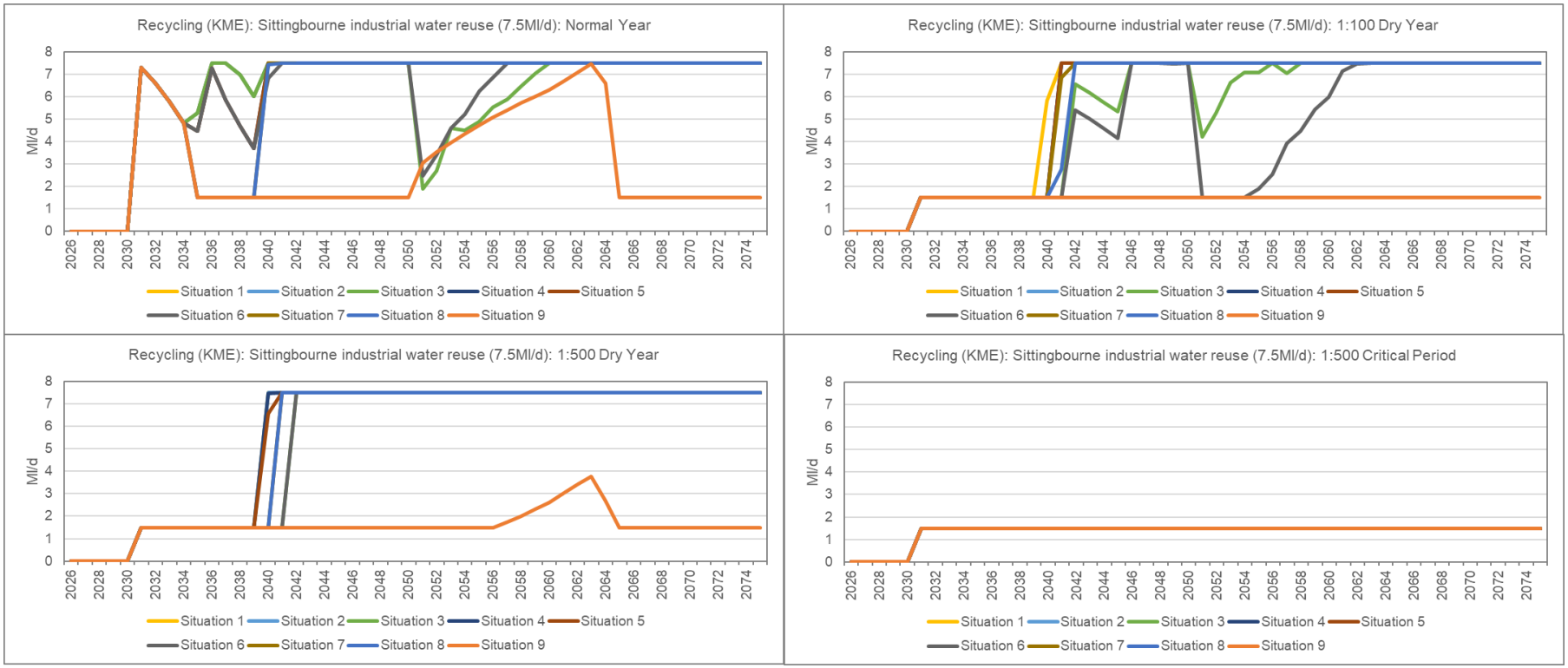

Figure 140: Utilisation of Sittingbourne industrial water reuse option in KME in each supply-demand situation under each planning scenario.

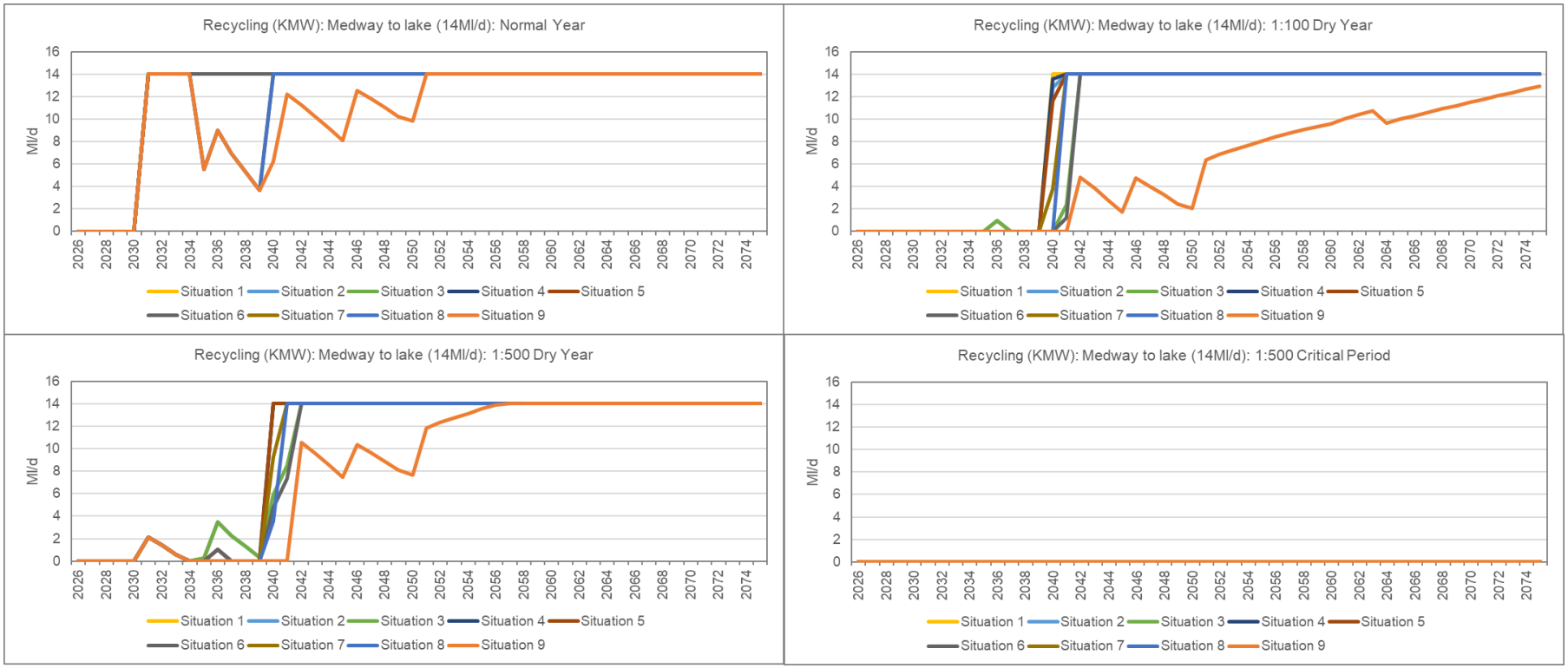

Figure 141: Utilisation of Medway recycling option in KMW in each supply-demand situation under each planning scenario.

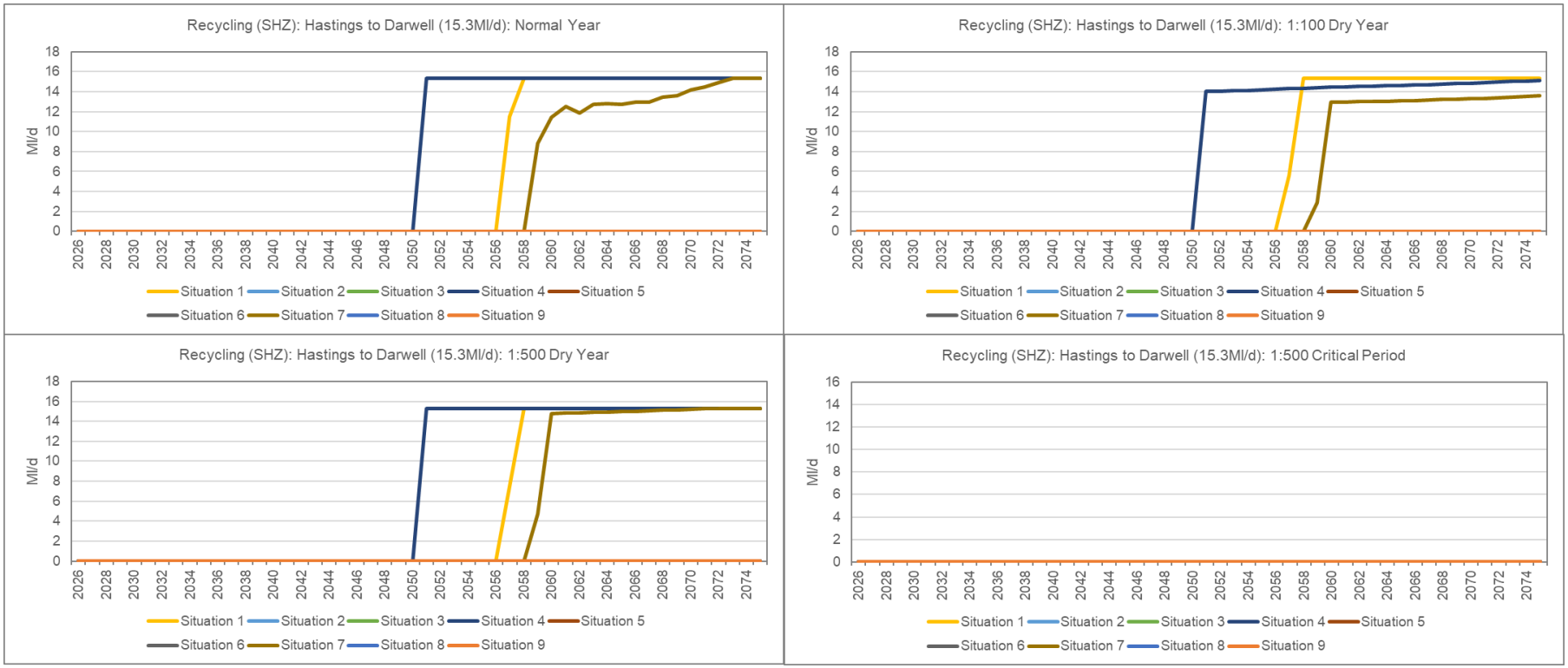

Figure 142: Utilisation of Hastings recycling option in SHZ in each supply-demand situation under each planning scenario.

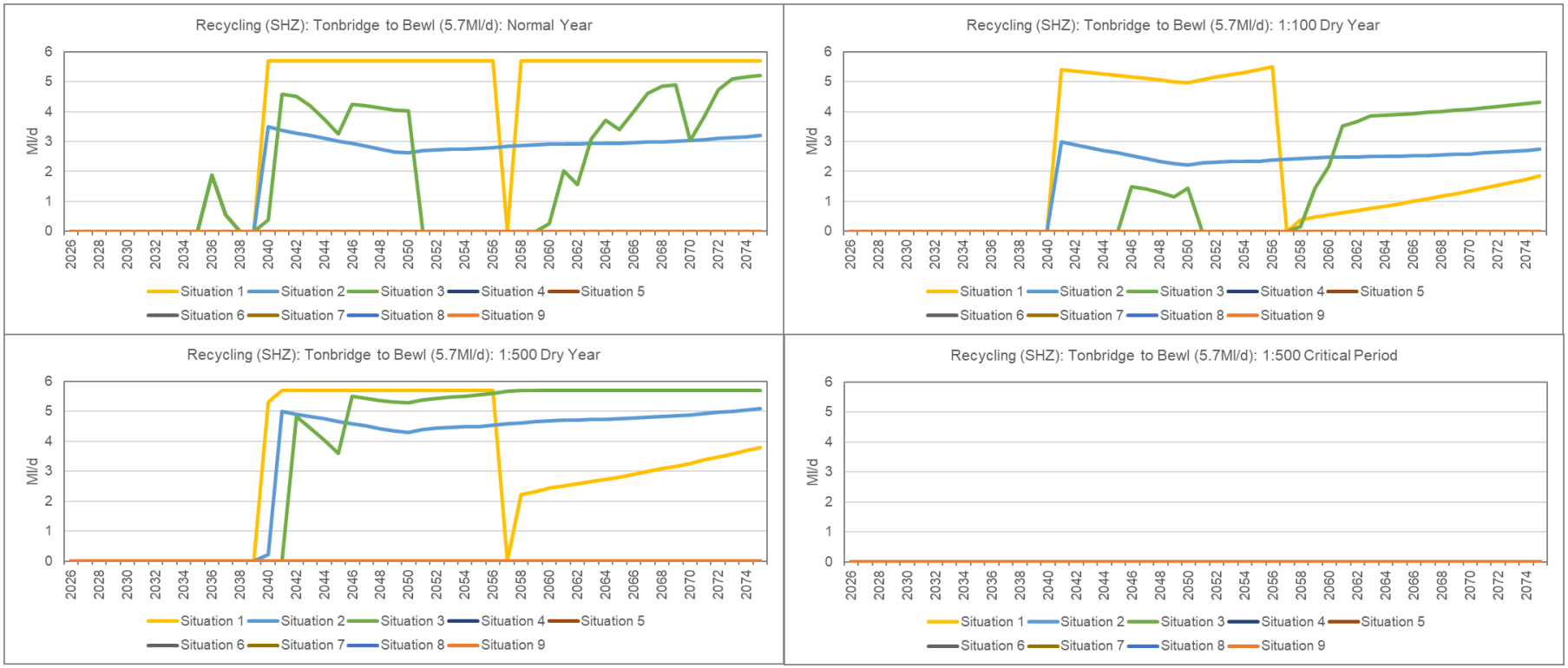

Figure 143: Utilisation of Tonbridge recycling option in SHZ in each supply-demand situation under each planning scenario.

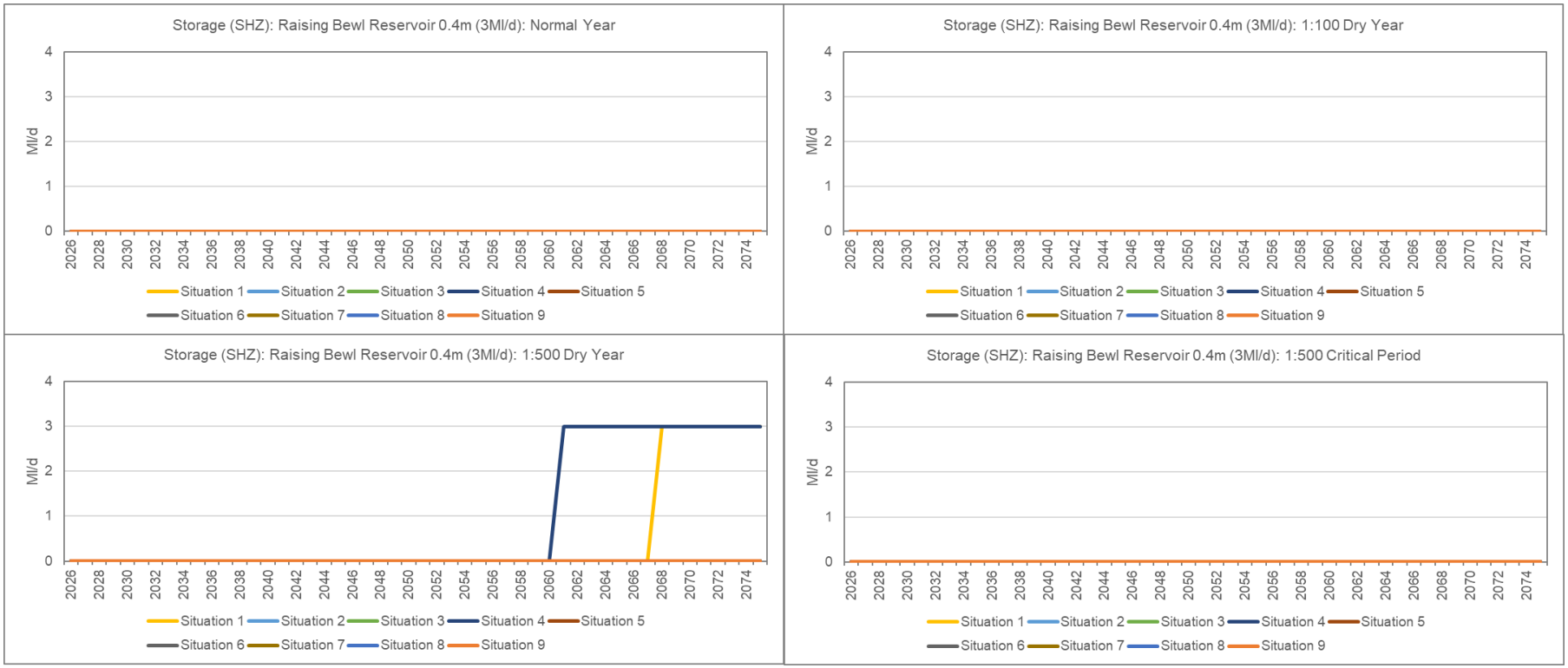

Figure 144: Utilisation of the option to raise Bewl Reservoir in SHZ by 0.4m in each supply-demand situation under each planning scenario.

4 Least Cost Plan (including import of water via sea tankers)

4.1 Western area

4.1.1 Option selection and utilisation under NYAA scenario

Table 49: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2041	2069	0	2041	2064	0	2042	0	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2042	2042	2042	2042	2042	2042	2042	2042	2042
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2051	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HAZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HKZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HKZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HRZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HRZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSE): Candover (22Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSE): Lower Itchen	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	2068	0	0	0	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2036	2036	2036	2036	2036	2036	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	2040	0	0	2040	0	0	2040	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2040	2040	2053	2041	2040	2057	2041	2047	0
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	0	0	0	0	0	0	2040	0	0
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 50: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	1.6	0.0	45.0	2.3	0.0	45.0	0.0	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Bulk import (HAZ): T2ST to Andover (20Ml/d)	14.3	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	54.3	47.4	28.1	60.0	48.0	27.8	60.0	34.0	27.8
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	1.0	1.0	11.7	1.0	1.1	14.4	1.0	12.8	10.4
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	95.0	18.0	16.5	95.0	18.0	16.5	94.9	18.0	14.3
Demand management (HAZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HKZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HRZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HRZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSE): Candover (22Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSE): Lower Itchen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSW): River Test (80Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	62.2	8.3	9.8	59.9	8.7	10.8	52.2	2.4	0.0
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	7.2	7.5	7.5	7.6	7.6	7.6	8.1	7.6	7.6
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.1	4.4	4.4	4.5	4.5	4.5	5.0	4.5	4.5
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.5
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	8.7	11.0	8.7	8.7	11.0	8.7	8.5	10.8	8.5
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.9	4.6	4.6	7.4	4.7	4.7	7.3	4.7	4.7
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	26.6	7.3	7.7	24.2	6.9	6.2	28.8	11.2	2.3
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour WTW (60Ml/d)	60.0	60.0	28.1	60.0	60.0	27.8	60.0	40.0	27.8
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.3	1.6	8.5	7.8	1.6	8.5	1.6	1.6

4.1.2 Option selection and utilisation under 1:100 DYAA scenario

Table 51: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2040	2044	0	2040	2043	0	2042	2069	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2042	2042	2042	2042	2042	2042	2042	2042	2042
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2051	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	2037	2037	2037	2037	2037	2037	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	2068	0	0	0	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2036	2036	2036	2036	2036	2036	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 52: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	14.2	0.0	45.0	14.9	0.0	45.0	4.2	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Bulk import (HAZ): T2ST to Andover (20Ml/d)	13.7	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	95.0	49.5	18.0	89.7	49.8	18.0	83.8	32.8	18.0
Demand management (HAZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HKZ): NEUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HRZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSE): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (HSW): NEUBs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HWZ): NEUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (IOW): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - supply side (HSE): Candover (22Ml/d)	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
Drought option - supply side (HSE): Lower Itchen	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	24.4	22.3	22.3	21.5	21.5	21.5	26.6	26.6	26.6
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.8	4.8	4.8	7.2	4.8	4.8	7.1	4.9	4.9
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	60.0	39.7	33.9	57.0	40.5	33.6	54.5	37.7	37.6
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour WTW (60Ml/d)	60.0	52.3	25.4	60.0	51.3	20.0	53.9	40.0	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.4

4.1.3 Option selection and utilisation under 1:500 DYAA scenario

Table 53: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2040	2040	0	2040	2040	0	2042	2063	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2042	2042	2042	2042	2042	2042	2042	2042	2042
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2051	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	2068	0	0	0	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2042	2042	2042	2042	2042	2042	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2042	2042	2042	2042	2042	2042	2042	2042	2042
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2035	2035	2035	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 54: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	22.0	0.0	45.0	18.6	0.0	45.0	18.9	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	9.8	1.5	1.5	9.5	1.5	1.5	1.5	1.5	1.5
Bulk import (HAZ): T2ST to Andover (20Ml/d)	8.2	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	90.0	90.0	76.0	90.0	90.0	76.3	90.0	90.0	58.8
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	73.6	30.8	16.5	64.1	27.0	16.5	57.5	21.0	16.5
Demand management (HAZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HKZ): NEUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HRZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSE): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (HSW): NEUBs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HWZ): NEUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (IOW): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - supply side (HSE): Candover (22Ml/d)	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
Drought option - supply side (HSE): Lower Itchen	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	21.8	21.8	21.8	21.8	21.8	21.8	21.8	26.3	21.8
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	7.7	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.6	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	15.4	12.4	9.4	15.5	12.4	9.4	15.2	12.1	9.1
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.8	4.2	3.4	7.2	4.2	3.4	7.1	4.1	3.3
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	57.5	30.1	33.9	47.2	29.6	33.4	37.4	41.0	37.9
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour WTW (60Ml/d)	60.0	60.0	32.6	60.0	60.0	21.5	60.0	49.5	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.5	1.6	8.5	8.5	1.6	8.5	8.5	1.6

4.1.4 Option selection and utilisation under 1:500 DYCP scenario

Table 55: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2042	2042	2042	2042	2042	2042	2042	2042	2042
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2051	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	2040	0	0	2040	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	2068	0	0	0	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2042	2042	2042	2042	2042	2042	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2042	2042	2042	2042	2042	2042	2042	2042	2042
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2040	2042	2042	2040	2042	2042	2040	2042	2042
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 56: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	7.8	1.5	1.5	4.6	1.5	1.5	1.5	1.5	1.5
Bulk import (HAZ): T2ST to Andover (20Ml/d)	11.5	0.0	0.0	9.7	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	69.0	61.1	58.6	69.0	61.9	59.4	69.0	52.5	46.0
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	56.8	16.5	16.5	47.5	15.6	16.5	43.8	16.5	16.5
Demand management (HAZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HKZ): NEUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): NEUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - demand side (HRZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): NEUBs	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
Drought option - demand side (HSW): NEUBs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Drought option - demand side (HWZ): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (IOW): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Drought option - supply side (HSE): Candover (22Ml/d)	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
Drought option - supply side (HSE): Lower Itchen	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	16.9	16.9	16.9	16.9	16.9	16.9	20.0	16.9	16.9
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	7.5	8.1	8.1	8.0	8.1	8.1	8.0	8.1	8.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.4	5.0	5.0	4.9	5.0	5.0	4.9	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	18.0	4.4	4.4	18.0	4.4	4.4	18.0	4.4	4.4
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	10.6	3.2	7.0	9.9	2.1	5.9	9.8	2.8	8.1
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HSE-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	45.0	27.5	27.5	39.8	27.0	27.0	43.5	30.7	30.6
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portsmouth Harbour WTW (60Ml/d)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	1.6	1.6	8.5	1.6	1.6	8.5	1.6	1.6

4.2 Central area

4.2.1 Option selection and utilisation under 1:100 NYAA scenario

Table 57: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2046	2071	2041	2052	0	2041	2065	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2040	2040	2041	2040	2041	2051	2040	2041	2070
Bulk import (SNZ): SES re-zoning (4Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2053	0	2040	2040	2041	2040	2040	2046
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	2070	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2046	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2057	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SBZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): NEUBs	0	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2040	2041	2051	2040	2041	2064	2040	2041	0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2041	0	0	2041	0	0	2041	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2040	0	2040	2040	0	2040	2040	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2041	0	0	2041	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	2063	0	0	2050	0	0	2058	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2042	0	0	2046	0	0	2049	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2042	0	0	2041	0	0	2048	0	0

Table 58: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	35.0	16.3	3.2	26.6	15.4	0.0	37.9	6.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	2.2
Bulk import (SNZ): SES re-zoning (4Ml/d)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	16.7	0.0	0.0	10.9	0.0	0.0	4.6	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	39.4	26.7	0.0	29.7	25.9	0.0	34.1	18.3	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	13.0	11.4	13.0	13.0	12.5	13.0	13.0	12.5
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	17.0	12.5	17.0	17.0	11.3	17.0	17.0	11.2
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	12.8	15.0	15.0	12.1	15.0	15.0	11.2
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	7.2	15.0	15.0	3.0
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

4.2.2 Option selection and utilisation under 1:100 DYAA scenario

Table 59: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2040	2069	2041	2042	0	2041	2046	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2034	2034	2034	2034	2034	2034	2034	2034	2034
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2053	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	2070	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2046	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2057	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2051	0	0	0	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2041	0	2040	2041	0	2040	2041	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2062	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	2063	0	0	2050	0	0	2058	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2042	0	0	2046	0	0	2049	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2042	0	0	2041	0	0	2048	0	0

Table 60: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Southern Water Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	40.0	32.3	5.4	29.2	31.3	0.0	33.9	20.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	9.3	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drought option - demand side (SNZ): NEUBs	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Drought option - demand side (SWZ): NEUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	30.2	16.2	0.0	25.0	15.2	0.0	21.4	7.5	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	12.9	5.7	13.0	12.8	6.4	13.0	9.2	6.4
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	16.0	6.4	17.0	15.9	5.0	17.0	10.4	5.7
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	10.0	15.0	15.0	9.8	15.0	15.0	9.8
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	13.7	15.0	15.0	10.7
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

4.2.3 Option selection and utilisation under 1:500 DYAA scenario

Table 61: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2041	2042	2041	2042	2069	2041	2042	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2034	2034	2034	2034	2034	2034	2034	2034	2034
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2053	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	2070	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2046	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2057	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2041	0	0	2074	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2040	0	2040	2040	0	2040	2041	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2051	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	2063	0	0	2050	0	0	2058	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2042	0	0	2046	0	0	2049	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2042	0	0	2041	0	0	2048	0	0

Table 62: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	40.0	40.0	12.6	40.0	40.0	1.5	40.0	20.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	10.0	0.0	0.0	4.8	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drought option - demand side (SNZ): NEUBs	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Drought option - demand side (SWZ): NEUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	6.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	33.2	18.5	0.0	24.0	17.5	0.0	23.9	9.7	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	13.0	6.7	13.0	13.0	6.0	13.0	12.5	7.3
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	17.0	7.3	17.0	17.0	7.3	17.0	11.3	6.8
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	11.3	15.0	15.0	11.0	15.0	15.0	11.0
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	12.3
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

4.2.4 Option selection and utilisation under 1:500 DYCP scenario

Table 63: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2043	0	0	0	0	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	2070	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2046	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2057	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2036	2036	2036	2036	2036	2036	2036	2036	2036
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2040	2040	2040	2040	2040	0	0	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2051	2042	2042	2074	2042	2070	0	0	0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2042	0	0	2042	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	0	0	0	0	0	0	0	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2066	0	0	0	0	0	0	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0	0	0	0	0	0	0	0	0

Table 64: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYCP planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	1.2	3.1	0.7
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	0.5	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	4.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Drought option - demand side (SNZ): NEUBs	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Drought option - demand side (SWZ): NEUBs	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	8.9	2.4	2.3	1.2	1.5	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	0.2	4.0	2.4	0.0	0.0	0.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	8.8	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	9.6	9.8	15.0	10.5	10.8	12.3	11.7	12.0
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	3.0	7.5	7.3	3.0	6.4	3.0	3.0	3.0	3.0
Recycling (SNZ): Horsham with storage at Pulborough (11.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

4.3 Eastern area

4.3.1 Option selection and utilisation under NYAA scenario

Table 65: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2058	0	0	2058	0	0	2057	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SHZ): Rye to SEW RZ8	2051	0	0	2052	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	2050	2050	2051	2052	2050	2051	2050	2050	2065
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (SHZ): SEW RZ8 to Rye	0	0	0	2050	2060	2075	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2041	2041	0	2046	2041	0	2046	2046	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2040	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2046	0	0	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2057	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KME): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KME): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	2040	2040	0	2040	2040	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2051	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	2036	2036	2036	0	0	0	0	0	0

Table 66: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	8.0	0.0	0.0	5.4	0.0	0.0	5.8	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	15.9	20.0	20.0	16.7	20.0	20.0	20.0	19.7	8.5
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk export (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	7.0	2.3	5.2	0.0	0.0	0.0
Demand management (KME): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	5.1	0.0	8.2	7.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	18.0	16.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	7.7	0.0	0.0	9.5	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	12.2	15.8	4.3	3.5	15.8	3.9	13.7	14.0	3.5
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	44.7	44.7	26.2	42.9	41.8	23.2	44.7	40.1	22.1
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	6.6	6.6	6.6	7.2	6.6	6.6	8.8	6.6	6.6
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	13.2	14.0	14.0	12.7	14.0	14.0	10.7
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.9	3.3	0.0	2.5	2.8	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.3	0.0	0.0	15.3	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	3.6	3.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

4.3.2 Option selection and utilisation under 1:100 DYAA scenario

Table 67: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Southern Water Least Cost Plan).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2045	0	0	2045	0	0	2050	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2050	0	0	2059	0	0	0	0	0
Bulk export (SHZ): Rye to SEW RZ8	2051	0	0	2051	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	2050	2051	2052	2050	2051	2050	2050	0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (SHZ): SEW RZ8 to Rye	0	0	0	0	0	2075	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2041	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2040	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2046	0	0	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2057	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	0	0	0	0	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2036	2036	2036	2040	2040	2041	2040	2041	2042
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2051	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	2041	2041	2046	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 68: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	7.8	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	20.0	15.7	4.1	20.0	20.0	11.7	13.6	0.0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk export (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Demand management (KME): Basket - low	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	2.0	0.0	8.3	2.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	18.3	0.0	20.0	13.0	0.0	20.0	13.6	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	6.6	0.0	0.0	2.3	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (KMW): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (KTZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	4.4	9.3	6.6	1.4	8.8	11.4	6.2	4.5	1.4
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	43.4	44.7	25.3	40.5	42.0	20.2	44.7	37.4	23.7
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	6.6	14.0	14.0	6.5	14.0	14.0	3.8
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	1.5

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	12.9
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.1	0.0	0.0	13.6	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	3.6	3.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

4.3.3 Option selection and utilisation under 1:500 DYAA scenario

Table 69: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2045	0	0	2045	0	0	2050	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2050	0	0	2052	0	0	2052	0	0
Bulk export (SHZ): Rye to SEW RZ8	2051	0	0	2050	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	2050	2051	0	2051	2051	2066	2050	2065
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk export (SHZ): SEW RZ8 to Rye	0	0	0	0	0	2075	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2041	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2040	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2046	0	0	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2057	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	2040	0	2040	2040	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2051	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	2040	2040	2042	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	2055	2059	0	2055	0	0	0	0	0

Table 70: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	7.4	6.8	6.8	7.4	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	2.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	17.7	0.0	0.0	6.1	0.0	0.0	1.8	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	11.0	18.5	0.0	18.2	20.0	7.7	8.9	4.5
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk export (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0
Demand management (KME): Basket - low	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	10.0	0.0	10.0	8.8	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	10.0	0.0	0.0	9.4	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (KMW): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (KTZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	10.5	11.5	7.7	0.0	12.1	9.9	11.2	8.1	1.0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	44.7	44.7	28.6	42.9	40.0	24.3	44.7	37.3	22.6
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	7.3	7.3	7.3	15.7	7.3	7.3	7.3	7.3	7.3
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	10.1	14.0	14.0	9.6	14.0	14.0	5.8
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	2.9	0.0	1.3	2.4	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	3.8

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.3	0.0	0.0	15.3	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	3.0	3.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0

4.3.4 Option selection and utilisation under 1:500 DYCP scenario

Table 71: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	0	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2067	0	0	2070	0	0	0	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2071	2050	2051	0	2050	2051	0	2050	2065
Bulk export (SHZ): Rye to SEW RZ8	0	0	0	0	2060	0	0	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (SHZ): SEW RZ8 to Rye	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2041	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2040	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2046	0	0	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2057	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	0	0	2051	0	0	2053	0	0	0
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	0	0	2054	0	0	2056	0	0	0
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2058	2050	2048	2072	2050	0	0	2059	0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	0	0	0	0	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	0	0	2074	0	0	2075	0	0	0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	0	0	0	0	0	0	0	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	0	0	0	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 72: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	1.4	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	4.0	20.0	13.9	0.0	20.0	14.3	0.0	20.0	16.0
Bulk export (SHZ): Rye to SEW RZ8	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Bulk export (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2.0	2.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	4.0	4.0	0.0	4.0	4.0	0.0	4.0	4.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d)	4.0	4.0	0.0	4.0	4.0	0.0	4.0	4.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	4.0	4.0	0.0	4.0	4.0	0.0	4.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (KMW): NEUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (KTZ): NEUBs	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Drought option - demand side (SHZ): NEUBs	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	0.0	0.0	2.7	0.0	0.0	2.7	0.0	0.0	0.0
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0	0.0
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	7.3	8.8	0.3	1.5	6.7	0.0	0.0	1.3	0.0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	8.8	20.9	17.4	5.7	12.2	14.7	5.7	5.7	8.5
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	12.3	7.0	7.3	9.9	16.8	7.3	7.9	6.3	6.3
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	1.5	14.0	14.0	1.5	14.0	13.7	1.5	14.0	8.6
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KMW): Medway to lake (14Ml/d)	0.0	0.0	1.5	0.0	0.0	1.0	0.0	0.0	0.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

5 Least Cost Plan (excluding import of water via sea tankers)

5.1 Western area

5.1.1 Option selection and utilisation under NYAA scenario

Table 73: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2041	2069	0	2041	2064	0	2042	0	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2042	2042	2042	2042	2042	2042	2042	2042	2042
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2051	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HAZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HKZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HKZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HRZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HRZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSE): Candover (22Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSE): Lower Itchen	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	2068	0	0	0	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (HSW): Test MAR (5.5Ml/d)	2036	2036	2036	2036	2036	2036	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	2040	0	0	2040	0	0	2040	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2040	2040	2053	2041	2040	2057	2041	2047	0
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	0	0	0	0	0	0	2040	0	0
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 74: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	1.6	0.0	45.0	2.3	0.0	45.0	0.0	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Bulk import (HAZ): T2ST to Andover (20Ml/d)	14.3	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	54.3	47.4	28.1	60.0	48.0	27.8	60.0	34.0	27.8
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	1.0	1.0	11.7	1.0	1.1	14.4	1.0	12.8	10.4
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	95.0	18.0	16.5	95.0	18.0	16.5	94.9	18.0	14.3
Demand management (HAZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HKZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HRZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HRZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSE): Candover (22Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSE): Lower Itchen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSW): River Test (80Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	62.2	8.3	9.8	59.9	8.7	10.8	52.2	2.4	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.1	4.4	4.4	4.5	4.5	4.5	5.0	4.5	4.5
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.5
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	8.7	11.0	8.7	8.7	11.0	8.7	8.5	10.8	8.5
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.9	4.6	4.6	7.4	4.7	4.7	7.3	4.7	4.7
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	26.6	7.3	7.7	24.2	6.9	6.2	28.8	11.2	2.3
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	60.0	60.0	28.1	60.0	60.0	27.8	60.0	40.0	27.8
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.3	1.6	8.5	7.8	1.6	8.5	1.6	1.6

5.1.2 Option selection and utilisation under 1:100 DYAA scenario

Table 75: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2040	2044	0	2040	2043	0	2042	2069	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2042	2042	2042	2042	2042	2042	2042	2042	2042
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2051	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	2037	2037	2037	2037	2037	2037	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	2068	0	0	0	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2036	2036	2036	2036	2036	2036	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 76: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	14.2	0.0	45.0	14.9	0.0	45.0	4.2	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Bulk import (HAZ): T2ST to Andover (20Ml/d)	13.7	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	95.0	49.5	18.0	89.7	49.8	18.0	83.8	32.8	18.0
Demand management (HAZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HKZ): NEUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HRZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSE): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (HSW): NEUBs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HWZ): NEUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (IOW): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - supply side (HSE): Candover (22Ml/d)	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
Drought option - supply side (HSE): Lower Itchen	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
Drought option - supply side (HSW): River Test (80Ml/d)	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	24.4	22.3	22.3	21.5	21.5	21.5	26.6	26.6	26.6

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.8	4.8	4.8	7.2	4.8	4.8	7.1	4.9	4.9
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	60.0	39.7	33.9	57.0	40.5	33.6	54.5	37.7	37.6
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	60.0	52.3	25.4	60.0	51.3	20.0	53.9	40.0	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.4

5.1.3 Option selection and utilisation under 1:500 DYAA scenario

Table 77: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2040	2040	0	2040	2040	0	2042	2063	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2042	2042	2042	2042	2042	2042	2042	2042	2042
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2051	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	2068	0	0	0	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2042	2042	2042	2042	2042	2042	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2035	2035	2035	2036	2036	2036	2036	2036	2036
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 78: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	22.0	0.0	45.0	18.6	0.0	45.0	18.9	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	9.8	1.5	1.5	9.5	1.5	1.5	1.5	1.5	1.5
Bulk import (HAZ): T2ST to Andover (20Ml/d)	8.2	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	90.0	90.0	76.0	90.0	90.0	76.3	90.0	90.0	58.8
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	73.6	30.8	16.5	64.1	27.0	16.5	57.5	21.0	16.5
Demand management (HAZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HKZ): NEUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HRZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSE): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (HSW): NEUBs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HWZ): NEUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (IOW): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - supply side (HSE): Candover (22Ml/d)	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
Drought option - supply side (HSE): Lower Itchen	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
Drought option - supply side (HSW): River Test (80Ml/d)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	21.8	21.8	21.8	21.8	21.8	21.8	21.8	26.3	21.8

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	15.4	12.4	9.4	15.5	12.4	9.4	15.2	12.1	9.1
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.8	4.2	3.4	7.2	4.2	3.4	7.1	4.1	3.3
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	57.5	30.1	33.9	47.2	29.6	33.4	37.4	41.0	37.9
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	60.0	60.0	32.6	60.0	60.0	21.5	60.0	49.5	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.5	1.6	8.5	8.5	1.6	8.5	8.5	1.6

5.1.4 Option selection and utilisation under 1:500 DYCP scenario

Table 79: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2042	2042	2042	2042	2042	2042	2042	2042	2042
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2051	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	2040	0	0	2040	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	2068	0	0	0	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2042	2042	2042	2042	2042	2042	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2042	2042	2042	2042	2042	2042	2042	2042	2042
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2040	2042	2042	2040	2042	2042	2040	2042	2042
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 80: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	7.8	1.5	1.5	4.6	1.5	1.5	1.5	1.5	1.5
Bulk import (HAZ): T2ST to Andover (20Ml/d)	11.5	0.0	0.0	9.7	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	69.0	61.1	58.6	69.0	61.9	59.4	69.0	52.5	46.0
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	56.8	16.5	16.5	47.5	15.6	16.5	43.8	16.5	16.5
Demand management (HAZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HKZ): NEUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): NEUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - demand side (HRZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): NEUBs	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
Drought option - demand side (HSW): NEUBs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Drought option - demand side (HWZ): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (IOW): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Drought option - supply side (HSE): Candover (22Ml/d)	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
Drought option - supply side (HSE): Lower Itchen	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
Drought option - supply side (HSW): River Test (80Ml/d)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	16.9	16.9	16.9	16.9	16.9	16.9	20.0	16.9	16.9

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.4	5.0	5.0	4.9	5.0	5.0	4.9	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	18.0	4.4	4.4	18.0	4.4	4.4	18.0	4.4	4.4
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	10.6	3.2	7.0	9.9	2.1	5.9	9.8	2.8	8.1
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	45.0	27.5	27.5	39.8	27.0	27.0	43.5	30.7	30.6
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	1.6	1.6	8.5	1.6	1.6	8.5	1.6	1.6

5.2 Central area

5.2.1 Option selection and utilisation under 1:100 NYAA scenario

Table 81: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2046	2071	2041	2052	0	2041	2065	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2040	2040	2041	2040	2041	2051	2040	2041	2070
Bulk import (SNZ): SES re-zoning (4Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2053	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	2070	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2042	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2057	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SBZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): NEUBs	0	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2040	2041	2051	2040	2041	2064	2040	2041	0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2041	0	0	2041	0	0	2041	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2040	0	2040	2040	0	2040	2040	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2041	0	0	2041	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	2063	0	0	2050	0	0	2058	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2046	0	0	2046	0	0	2049	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2042	0	0	2041	0	0	2048	0	0

Table 82: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	35.0	16.3	3.2	26.6	15.4	0.0	37.9	6.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	2.2
Bulk import (SNZ): SES re-zoning (4Ml/d)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	16.7	0.0	0.0	10.9	0.0	0.0	4.6	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	39.4	26.7	0.0	29.7	25.9	0.0	34.1	18.3	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	13.0	12.5	13.0	13.0	11.9	13.0	13.0	11.2
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	17.0	11.9	17.0	17.0	12.5	17.0	17.0	12.5
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	12.8	15.0	15.0	12.1	15.0	15.0	11.2
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	7.2	15.0	15.0	3.0
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

5.2.2 Option selection and utilisation under 1:100 DYAA scenario

Table 83: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2040	2069	2041	2042	0	2041	2046	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2034	2034	2034	2034	2034	2034	2034	2034	2034
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2053	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	2070	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2042	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2057	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2051	0	0	0	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2041	0	2040	2041	0	2040	2041	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2062	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	2063	0	0	2050	0	0	2058	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2046	0	0	2046	0	0	2049	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2042	0	0	2041	0	0	2048	0	0

Table 84: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	40.0	32.3	5.4	29.2	31.3	0.0	33.9	20.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	9.3	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drought option - demand side (SNZ): NEUBs	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Drought option - demand side (SWZ): NEUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	30.2	16.2	0.0	25.0	15.2	0.0	21.4	7.5	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	12.9	5.5	13.0	13.0	5.7	13.0	9.9	6.4
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	16.0	6.4	17.0	15.9	6.4	17.0	10.4	4.2
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	10.0	15.0	15.0	9.8	15.0	15.0	9.8
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	13.7	15.0	15.0	10.7
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

5.2.3 Option selection and utilisation under 1:500 DYAA scenario

Table 85: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2041	2042	2041	2042	2069	2041	2042	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2034	2034	2034	2034	2034	2034	2034	2034	2034
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2053	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	2070	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2042	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2057	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2041	0	0	2074	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2040	0	2040	2040	0	2040	2041	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2051	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	2063	0	0	2050	0	0	2058	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2046	0	0	2046	0	0	2049	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2042	0	0	2041	0	0	2048	0	0

Table 86: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	40.0	40.0	12.6	40.0	40.0	1.5	40.0	20.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	10.0	0.0	0.0	4.8	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drought option - demand side (SNZ): NEUBs	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Drought option - demand side (SWZ): NEUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	6.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	33.2	18.5	0.0	24.0	17.5	0.0	23.9	9.7	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	13.0	6.7	13.0	13.0	5.3	13.0	11.5	7.3
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	17.0	7.3	17.0	17.0	7.3	17.0	12.5	6.8
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	11.3	15.0	15.0	11.0	15.0	15.0	11.0
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	12.3
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0

5.2.4 Option selection and utilisation under 1:500 DYCP scenario

Table 87: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2043	0	0	0	0	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	0	0	0	2046	0	0	2070	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2042	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2057	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2036	2036	2036	2036	2036	2036	2036	2036	2036
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2040	2040	2040	2040	2040	0	0	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2051	2042	2042	2074	2042	2070	0	0	0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2042	0	0	2042	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	0	0	0	0	0	0	0	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2066	0	0	0	0	0	0	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0	0	0	0	0	0	0	0	0

Table 88: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYCP planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	1.2	3.1	0.7
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	0.5	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d)	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	4.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Drought option - demand side (SNZ): NEUBs	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Drought option - demand side (SWZ): NEUBs	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	8.9	2.4	2.3	1.2	1.5	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	0.2	4.0	2.4	0.0	0.0	0.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	6.5	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	9.6	9.8	15.0	10.5	10.8	12.3	11.7	11.8
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	3.0	7.5	7.3	3.0	6.4	3.0	3.0	3.0	3.0
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

5.3 Eastern area

5.3.1 Option selection and utilisation under NYAA scenario

Table 89: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2058	0	0	2058	0	0	2057	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SHZ): Rye to SEW RZ8	2051	0	0	2052	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	2050	2050	2051	2052	2050	2051	2050	2050	2065
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SHZ): SEW RZ8 to Rye	0	0	0	2050	2060	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KME): Isle of Sheppey (20Ml/d)	2041	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2040	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2046	0	0	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2057	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KME): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KME): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	2040	2040	0	2040	2040	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2051	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	2036	2036	2036	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 90: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	8.0	0.0	0.0	5.4	0.0	0.0	5.8	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	15.9	20.0	20.0	16.7	20.0	20.0	20.0	19.7	8.5
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk import (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	7.0	2.3	5.2	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	5.1	0.0	8.2	7.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	18.0	16.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	7.7	0.0	0.0	9.5	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	12.2	15.8	4.3	3.5	15.8	3.9	13.7	14.0	3.5
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	44.7	44.7	26.2	42.9	41.8	23.2	44.7	40.1	22.1
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	6.6	6.6	6.6	7.2	6.6	6.6	8.8	6.6	6.6
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	13.2	14.0	14.0	12.7	14.0	14.0	10.7
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.9	3.3	0.0	2.5	2.8	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.3	0.0	0.0	15.3	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	3.6	3.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

5.3.2 Option selection and utilisation under 1:100 DYAA scenario

Table 91: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2045	0	0	2045	0	0	2050	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2050	0	0	2059	0	0	0	0	0
Bulk export (SHZ): Rye to SEW RZ8	2051	0	0	2051	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	2050	2051	2052	2050	2051	2050	2050	0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SHZ): SEW RZ8 to Rye	0	0	0	0	0	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2041	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2040	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2046	0	0	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2057	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	0	0	0	0	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2036	2036	2036	2040	2040	2041	2040	2041	2042
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2051	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	2041	2041	2046	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 92: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	7.8	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	20.0	15.7	4.1	20.0	20.0	11.7	13.6	0.0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk import (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	2.0	0.0	8.3	2.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	18.3	0.0	20.0	13.0	0.0	20.0	13.6	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	6.6	0.0	0.0	2.3	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (KMW): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (KTZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	4.4	9.3	6.6	1.4	8.8	11.4	6.2	4.5	1.4
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	43.4	44.7	25.3	40.5	42.0	20.2	44.7	37.4	23.7
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	6.6	14.0	14.0	6.5	14.0	14.0	3.8
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	1.5
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	12.9
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.1	0.0	0.0	13.6	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	3.6	3.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

5.3.3 Option selection and utilisation under 1:500 DYAA scenario

Table 93: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2045	0	0	2045	0	0	2050	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2050	0	0	2052	0	0	2052	0	0
Bulk export (SHZ): Rye to SEW RZ8	2051	0	0	2050	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	2050	2051	0	2051	2051	2066	2050	2065
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SHZ): SEW RZ8 to Rye	0	0	0	0	0	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	2058	2058	2058	2058	2058	2058	2058	2058	2058
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2041	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2040	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2046	0	0	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2057	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	2040	0	2040	2040	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2051	0	0	2051	0	0	2059	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	2040	2040	2042	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	2055	2059	0	2055	0	0	0	0	0

Table 94: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	7.4	6.8	6.8	7.4	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	2.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	17.7	0.0	0.0	6.1	0.0	0.0	1.8	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	11.0	18.5	0.0	18.2	20.0	7.7	8.9	4.5
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk import (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	10.0	10.0	0.0	10.0	8.8	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	10.0	0.0	0.0	9.4	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (KMW): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (KTZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	10.5	11.5	7.7	0.0	12.1	9.9	11.2	8.1	1.0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	44.7	44.7	28.6	42.9	40.0	24.3	44.7	37.3	22.6
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	7.3	7.3	7.3	15.7	7.3	7.3	7.3	7.3	7.3
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	10.1	14.0	14.0	9.6	14.0	14.0	5.8
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	2.9	0.0	1.3	2.4	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	3.8
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.3	0.0	0.0	15.3	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	3.0	3.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0

5.3.4 Option selection and utilisation under 1:500 DYCP scenario

Table 95: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	0	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2067	0	0	2070	0	0	0	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2071	2050	2051	0	2050	2051	0	2050	2065
Bulk export (SHZ): Rye to SEW RZ8	0	0	0	0	2060	0	0	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SHZ): SEW RZ8 to Rye	0	0	0	0	0	0	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2070	2063	0	2065	2065	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2041	2041	0	2046	2041	0	2046	2046	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	0	0	0	0	2041	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2040	2046	0	2040	2041	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2046	0	0	2041	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2057	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	0	0	2051	0	0	2053	0	0	0
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	0	0	2054	0	0	2056	0	0	0
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2058	2050	2048	2072	2050	0	0	2059	0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	0	0	0	0	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	0	0	2074	0	0	2075	0	0	0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	0	0	0	0	0	0	0	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	0	0	0	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 96: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (Least Cost Plan excluding import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	1.4	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	4.0	20.0	13.9	0.0	20.0	14.3	0.0	20.0	16.0
Bulk export (SHZ): Rye to SEW RZ8	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Bulk import (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	2.0	2.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	4.0	4.0	0.0	4.0	4.0	0.0	4.0	4.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (20Ml/d)	4.0	4.0	0.0	4.0	4.0	0.0	4.0	4.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	4.0	4.0	0.0	4.0	4.0	0.0	4.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (KMW): NEUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (KTZ): NEUBs	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Drought option - demand side (SHZ): NEUBs	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	0.0	0.0	2.7	0.0	0.0	2.7	0.0	0.0	0.0
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0	0.0
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	7.3	8.8	0.3	1.5	6.7	0.0	0.0	1.3	0.0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	8.8	20.9	17.4	5.7	12.2	14.7	5.7	5.7	8.5
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	12.3	7.0	7.3	9.9	16.8	7.3	7.9	6.3	6.3
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	1.5	14.0	14.0	1.5	14.0	13.7	1.5	14.0	8.6
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Recycling (KMW): Medway to lake (14Ml/d)	0.0	0.0	1.5	0.0	0.0	1.0	0.0	0.0	0.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

6 Plan optimised on Environmental and Societal Metrics – ENVSOC (including import of water via sea tankers)

6.1 Western area

6.1.1 Option selection and utilisation under NYAA scenario

Table 97: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2041	2069	0	2041	2064	0	2042	0	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HAZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HKZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HKZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HRZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HRZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSE): Candover (22Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSE): Lower Itchen	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2036	2036	2036	2036	2036	2036	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	2040	0	0	2040	0	0	2040	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2052	0	0	0	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2040	2040	2053	2041	2040	2057	2041	2045	0
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	0	0	0	2067	0	2073	2040	0	0
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 98: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	1.6	0.0	45.0	2.3	0.0	45.0	0.0	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	14.3	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	54.3	46.8	28.1	60.0	47.3	27.8	60.0	32.5	27.8
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	1.0	1.0	11.7	1.0	1.1	14.4	1.0	12.8	10.4
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	95.0	18.0	18.0	94.7	18.0	18.0	94.9	18.0	14.3
Demand management (HAZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HKZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HRZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HRZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSE): Candover (22Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSE): Lower Itchen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSW): River Test (80Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	62.1	8.3	10.8	58.3	8.7	11.9	54.0	3.9	0.0
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.1	4.4	4.4	4.5	4.5	4.5	5.0	4.5	4.5
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.5
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	8.7	11.0	8.7	8.7	11.0	8.7	8.5	10.8	8.5
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.9	4.6	4.6	7.4	4.7	4.7	7.3	4.7	4.7
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	26.6	7.3	7.7	24.2	6.9	6.2	28.8	11.2	2.3
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	60.0	60.0	28.1	60.0	60.0	27.8	60.0	38.5	27.8
Recycling (IOW): Sandown (8.5Ml/d)	8.5	6.8	1.6	8.5	6.3	1.6	8.5	1.6	1.6

6.1.2 Option selection and utilisation under 1:100 DYAA scenario

Table 99: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2040	2044	0	2040	2043	0	2042	2069	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2031	2031	2031	2031	2031	2031	2031	2031	2031

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2031	2031	2031	2031	2031	2031	2031	2031	2031
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	2037	2037	2037	2037	2037	2037	0	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2036	2036	2036	2036	2036	2036	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2052	0	0	0	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 100: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	14.2	0.0	45.0	14.9	0.0	45.0	4.2	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	13.7	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	95.0	49.5	18.0	89.7	49.8	18.0	83.8	32.8	18.0
Demand management (HAZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HKZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HRZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSE): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (HSW): NEUBs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HWZ): NEUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (IOW): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - supply side (HSE): Candover (22Ml/d)	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
Drought option - supply side (HSE): Lower Itchen	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Drought option - supply side (HSW): River Test (80Ml/d)	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	24.4	22.3	22.3	21.5	21.5	21.5	26.6	26.6	26.6
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.8	4.8	4.8	7.2	4.8	4.8	7.1	4.9	4.9
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	60.0	39.7	33.9	57.0	40.5	33.6	54.5	37.7	37.6
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	60.0	52.3	23.9	60.0	51.3	20.0	60.0	40.0	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.4

6.1.3 Option selection and utilisation under 1:500 DYAA scenario

Table 101: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2040	2040	0	2040	2040	0	2042	2063	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2031	2031	2031	2031	2031	2031	2031	2031	2031

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2031	2031	2031	2031	2031	2031	2031	2031	2031
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2042	2042	2042	2042	2042	2042	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2052	0	0	0	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2042	2042	2042	2042	2042	2042	2042	2042	2042
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2035	2035	2035	2036	2036	2036	2036	2036	2036
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 102: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	18.9	0.0	45.0	21.9	0.0	45.0	17.1	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	6.9	0.0	0.0	5.0	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	8.2	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	90.0	90.0	74.5	90.0	90.0	74.8	90.0	90.0	57.3
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	74.1	27.7	18.0	64.1	30.3	18.0	57.5	18.8	18.0
Demand management (HAZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HKZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HRZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSE): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (HSW): NEUBs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HWZ): NEUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (IOW): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - supply side (HSE): Candover (22Ml/d)	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
Drought option - supply side (HSE): Lower Itchen	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Drought option - supply side (HSW): River Test (80Ml/d)	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	21.8	21.8	21.8	21.8	21.8	21.8	21.8	24.8	21.8
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.6	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	15.4	12.4	9.4	15.5	12.4	9.4	15.2	12.1	9.1
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.8	4.2	3.4	7.2	4.2	3.4	7.1	4.1	3.3
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	58.0	30.1	33.9	47.4	29.6	33.4	37.4	41.0	37.9
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	60.0	60.0	32.6	60.0	60.0	21.5	60.0	49.5	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.5	1.6	8.5	8.5	1.6	8.5	8.5	1.6

6.1.4 Option selection and utilisation under 1:500 DYCP scenario

Table 103: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2031	2031	2031	2031	2031	2031	2031	2031	2031

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2031	2031	2031	2031	2031	2031	2031	2031	2031
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	2040	0	0	2040	0	0	0	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2042	2042	2042	2042	2042	2042	2048	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2052	0	0	0	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2042	2042	2042	2042	2042	2042	2042	2042	2042
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2040	2042	2042	2040	2042	2042	2040	2042	2042
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 104: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	7.8	0.0	0.0	4.6	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	11.5	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	69.0	61.1	58.6	69.0	61.9	59.4	69.0	52.5	46.0
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	56.8	16.6	18.0	47.5	15.7	18.0	43.8	18.0	18.0
Demand management (HAZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): TUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HKZ): NEUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (HKZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): NEUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - demand side (HRZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): NEUBs	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
Drought option - demand side (HSW): NEUBs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Drought option - demand side (HWZ): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (IOW): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Drought option - supply side (HSE): Candover (22Ml/d)	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
Drought option - supply side (HSE): Lower Itchen	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Drought option - supply side (HSW): River Test (80Ml/d)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	16.9	16.9	16.9	16.9	16.9	16.9	20.0	16.9	16.9
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.4	5.0	5.0	4.9	5.0	5.0	4.9	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	18.0	4.4	4.4	18.0	4.4	4.4	18.0	4.4	4.4
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	10.6	3.2	5.5	9.9	2.1	4.4	9.8	1.3	7.3
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	45.0	27.5	27.5	39.8	27.0	27.0	43.5	30.7	30.6
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	1.6	1.6	8.5	1.6	1.6	8.5	1.6	1.6

6.2 Central area

6.2.1 Option selection and utilisation under 1:100 NYAA scenario

Table 105: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2046	2071	2041	2052	0	2041	2065	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2040	2040	2041	2040	2041	2051	2040	2041	2070
Bulk import (SNZ): SES re-zoning (4Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2054	0	2040	2040	2040	2040	2040	2046
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (20Ml/d)	2041	0	0	2046	0	0	2049	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2048	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SBZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): NEUBs	0	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2040	2041	2051	2040	2041	2064	2040	2041	0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2041	0	0	2041	0	0	2041	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2040	0	2040	2040	0	2040	2040	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2041	0	0	2041	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	2061	0	0	2068	0	0	2059	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2046	0	0	2059	0	0	0	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0	0	0	2041	0	0	2048	0	0

Table 106: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	24.0	16.3	3.2	24.1	15.4	0.0	37.9	6.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	2.2
Bulk import (SNZ): SES re-zoning (4Ml/d)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (20Ml/d)	20.0	0.0	0.0	20.0	0.0	0.0	20.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	16.7	0.0	0.0	10.9	0.0	0.0	4.6	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	25.7	26.7	0.0	29.7	25.9	0.0	32.0	18.3	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	13.0	11.9	13.0	13.0	12.5	13.0	13.0	12.5
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	17.0	12.5	17.0	17.0	11.1	17.0	17.0	10.6
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	12.8	15.0	15.0	12.1	15.0	15.0	11.2
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	7.2	15.0	15.0	3.0
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	0.0	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

6.2.2 Option selection and utilisation under 1:100 DYAA scenario

Table 107: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2040	2040	2069	2041	2042	0	2041	2046	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2034	2034	2034	2034	2034	2034	2034	2034	2034
Bulk import (SNZ): SES to SNZ (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES re-zoning (4Ml/d)	2041	2053	0	2040	2040	2040	2040	2040	2040
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	0	0	0	2046	0	0	2070	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d)	2042	0	0	0	0	0	0	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2057	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2051	0	0	0	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2041	0	2040	2041	0	2040	2041	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2062	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	2063	0	0	2050	0	0	2058	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2046	0	0	2046	0	0	2049	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2042	0	0	2041	0	0	2048	0	0

Table 108: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	38.4	32.3	3.9	34.3	31.3	0.0	34.6	20.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (20Ml/d)	20.0	0.0	0.0	15.3	0.0	0.0	7.8	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	18.2	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drought option - demand side (SNZ): NEUBs	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Drought option - demand side (SWZ): NEUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	30.0	16.2	0.0	21.4	15.2	0.0	20.1	7.5	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	12.6	3.4	13.0	13.0	3.3	13.0	10.4	6.4
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	16.0	6.4	17.0	15.9	6.4	17.0	9.9	5.5
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	10.0	15.0	15.0	9.8	15.0	15.0	9.8
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	13.7	15.0	15.0	10.7
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	0.0	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

6.2.3 Option selection and utilisation under 1:500 DYAA scenario

Table 109: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	2040	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2041	2042	2041	2042	2069	2041	2042	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2034	2034	2034	2034	2034	2034	2034	2034	2034
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2054	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (20Ml/d)	2041	0	0	2046	0	0	2049	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2048	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2041	0	0	2074	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2040	0	2040	2040	0	2040	2041	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2051	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2031	2031	2031	2031	2031	2031	2041	2036	2036
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	2061	0	0	2068	0	0	2059	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2046	0	0	2059	0	0	0	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0	0	0	2041	0	0	2048	0	0

Table 110: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	40.0	40.0	12.6	40.0	40.0	1.5	40.0	20.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (20Ml/d)	20.0	0.0	0.0	20.0	0.0	0.0	20.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drought option - demand side (SNZ): NEUBs	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Drought option - demand side (SWZ): NEUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	6.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	29.2	18.5	0.0	22.8	17.5	0.0	22.8	9.7	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	13.0	7.3	13.0	13.0	7.3	13.0	11.3	1.4
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	17.0	6.8	17.0	17.0	6.8	17.0	12.5	7.3
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	11.3	15.0	15.0	11.0	15.0	15.0	11.0
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	12.3
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0

6.2.4 Option selection and utilisation under 1:500 DYCP scenario

Table 111: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2043	0	0	0	0	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (20Ml/d)	2041	0	0	2046	0	0	2049	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2050	0	0	2048	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2040	2040	2040	2040	2040	0	0	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2051	2042	2042	2074	2042	2070	0	0	0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2042	0	0	2042	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	0	0	0	0	0	0	0	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2066	0	0	0	0	0	0	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0	0	0	0	0	0	0	0	0

Table 112: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYCP planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	0.6	3.1	0.7
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	7.7	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (20Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	4.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Drought option - demand side (SNZ): NEUBs	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Drought option - demand side (SWZ): NEUBs	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	8.9	2.4	2.3	1.2	1.5	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	0.2	4.0	2.4	0.0	0.0	0.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	6.5	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	9.6	9.8	15.0	10.5	10.8	15.0	11.7	10.8
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	3.0	7.5	7.3	3.0	6.4	3.0	3.0	3.0	3.0
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

6.3 Eastern area

6.3.1 Option selection and utilisation under NYAA scenario

Table 113: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2057	0	0	2051	0	0	2057	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SHZ): Rye to SEW RZ8	2059	0	0	2051	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	2050	2050	2051	2051	2050	2051	2050	2050	2065
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SHZ): SEW RZ8 to Rye	0	0	0	0	2060	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	0	2063	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KME): Isle of Sheppey (20Ml/d)	2040	2040	2040	2046	2041	0	2046	2041	0
Desalination (KME): Isle of Sheppey (20Ml/d) Phase 2	2070	0	0	2051	0	0	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	0	0	0	2041	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	2040	2063	0	0	0	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2046	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2046	0	0	0	0	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	2041	0	2041	2041	0	0	2051	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KME): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KME): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2041	2041	2046	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	2040	2040	0	2040	2040	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2059	0	0	2050	0	0	2058	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	2036	2036	2036	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 114: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	7.2	0.0	0.0	5.4	0.0	0.0	5.8	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	8.9	20.0	20.0	17.9	20.0	20.0	20.0	20.0	8.5
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk import (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	3.0	5.2	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	20.0	7.7	20.0	20.0	0.0	18.0	20.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	0.0	0.0	0.0	9.5	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	20.0	10.0	0.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	19.5	0.0	18.5	19.8	0.0	0.0	6.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	3.5	3.5	3.7	3.5	8.0	3.9	13.7	14.0	3.5
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	40.6	26.4	19.8	39.1	29.8	23.2	44.7	31.5	22.1
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	8.0	6.6	6.6	7.2	6.6	6.6	8.7	6.6	6.6
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	13.2	14.0	14.0	12.7	14.0	14.0	10.7
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.9	3.3	0.0	2.5	2.8	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.3	0.0	0.0	15.3	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

6.3.2 Option selection and utilisation under 1:100 DYAA scenario

Table 115: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	0	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2045	0	0	2045	0	0	2050	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2050	0	0	0	0	0	0	0	0
Bulk export (SHZ): Rye to SEW RZ8	2059	0	0	2050	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	2050	2051	2051	2050	2051	2050	2050	0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SHZ): SEW RZ8 to Rye	0	0	0	0	0	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	0	2063	0	0	0	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2040	2040	2040	2046	2041	0	2046	2041	0
Desalination (KME): Isle of Sheppey (20Ml/d) Phase 2	2070	0	0	2051	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	0	0	0	2041	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	2040	2063	0	0	0	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2046	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2046	0	0	0	0	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	2041	0	2041	2041	0	0	2051	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2041	2041	2046	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	2054	0	0	0	0	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2036	2036	2036	2040	2039	2039	2040	2041	2042
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2059	0	0	2050	0	0	2058	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	2041	2041	2060	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 116: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	20.0	13.9	5.6	20.0	20.0	13.9	15.9	0.0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk import (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	20.0	6.9	20.0	20.0	0.0	14.4	17.6	0.0
Desalination (KME): Isle of Sheppey (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	20.0	10.0	0.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	19.4	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	12.0	0.0	15.2	9.0	0.0	0.0	4.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (KMW): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (KTZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	1.4	1.4	4.8	1.4	2.8	11.4	3.7	4.5	1.4
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	43.4	26.2	19.9	39.0	27.6	20.2	44.7	31.1	23.7
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	6.9	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	6.6	14.0	14.0	6.5	14.0	14.0	3.8
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	1.5
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	12.9
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.1	0.0	0.0	13.6	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	3.6	3.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

6.3.3 Option selection and utilisation under 1:500 DYAA scenario

Table 117: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2045	0	0	2045	0	0	2050	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2050	0	0	2051	0	0	2050	0	0
Bulk export (SHZ): Rye to SEW RZ8	2058	0	0	2050	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	2050	2051	0	2050	2051	2066	2050	2065
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SHZ): SEW RZ8 to Rye	0	0	0	0	0	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	2058	2058	2058	2058	2058	2058	2058	2058	2058
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	0	2063	0	0	0	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2040	2040	2040	2046	2041	0	2046	2041	0
Desalination (KME): Isle of Sheppey (20Ml/d) Phase 2	2070	0	0	2051	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	0	0	0	2041	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	2040	2063	0	0	0	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2046	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2046	0	0	0	0	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	2041	0	2041	2041	0	0	2051	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2041	2041	2046	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	2050	2040	0	2040	2040	2060	2073	2046	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2059	0	0	2050	0	0	2058	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	2040	2040	2042	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	2057	0	0	0	0	0	0	0	0

Table 118: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	7.4	6.8	6.8	7.2	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	2.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	20.0	0.0	0.0	6.1	0.0	0.0	4.1	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	20.0	10.6	0.0	20.0	20.0	7.7	4.2	4.5
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk import (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	20.0	20.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	20.0	10.0	0.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	17.4	0.0	20.0	20.0	0.0	0.0	16.9	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (KMW): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (KTZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	0.0	3.3	0.4	0.0	9.1	9.9	14.0	6.4	1.0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	43.1	25.6	23.3	37.8	28.8	24.3	44.7	29.9	22.6
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	7.3	7.3	7.4	7.3	7.3	7.3	7.3	7.3	7.3
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	10.1	14.0	14.0	9.6	14.0	14.0	5.8
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	1.6	2.9	0.0	1.0	2.4	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	3.8
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.3	0.0	0.0	15.3	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

6.3.4 Option selection and utilisation under 1:500 DYCP scenario

Table 119: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	0	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2067	0	0	2070	0	0	0	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2071	2050	2051	0	2050	2051	0	2050	2065
Bulk export (SHZ): Rye to SEW RZ8	0	0	0	0	2060	0	0	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SHZ): SEW RZ8 to Rye	0	0	0	0	0	0	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	0	2063	0	0	0	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2040	2040	2040	2046	2041	0	2046	2041	0
Desalination (KME): Isle of Sheppey (20Ml/d) Phase 2	2070	0	0	2051	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	0	0	0	2041	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0	0	0	2040	2063	0	0	0	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2046	0	2040	2040	0	2040	2040	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	2046	0	0	0	0	0	2041	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	2041	0	2041	2041	0	0	2051	0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	0	2058	2053	0	0	2053	0	0	2070
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2058	0	2055	0	0	2055	0	0	0
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2058	0	0	0	0	0	0	0	0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	0	0	0	0	0	0	0	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	0	0	2070	0	0	2064	0	0	0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	0	0	0	0	0	0	0	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	0	0	0	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 120: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (ENVSOC Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	4.0	17.9	13.9	0.0	18.6	14.3	0.0	20.0	16.0
Bulk export (SHZ): Rye to SEW RZ8	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Bulk import (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d) Phase 2	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	4.0	4.0	4.0	4.0	4.0	0.0	4.0	4.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d) Phase 2	4.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	0.0	0.0	0.0	4.0	2.0	0.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d)	4.0	4.0	0.0	4.0	4.0	0.0	4.0	4.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	4.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	4.0	4.0	0.0	4.0	4.0	0.0	0.0	4.0	0.0
Desalination (KTZ): East Thanet (20Ml/d) Phase 2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (KMW): NEUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (KTZ): NEUBs	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Drought option - demand side (SHZ): NEUBs	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	0.0	0.0	2.7	0.0	0.0	2.7	0.0	0.0	0.0
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0	0.0
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	8.9	12.8	15.5	4.2	11.4	15.0	4.2	4.2	8.5
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	12.3	7.0	7.3	9.9	16.3	7.3	7.9	6.3	6.3
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	1.1	14.0	14.0	0.6	14.0	13.7	0.6	13.0	8.6
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Recycling (KMW): Medway to lake (14Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

7 Plan optimised on Resilience Metrics – RESIL (including import of water via sea tankers)

7.1.1 Option selection and utilisation under NYAA scenario

Table 121: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2041	2069	0	2041	2064	0	2042	0	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2036	2036	2036	2036	2036	2036	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2046	2071	2041	2052	0	2041	2047	0
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HAZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HKZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HKZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HRZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HRZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSE): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HSW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (HWZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (IOW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSE): Candover (22Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSE): Lower Itchen	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (HSW): River Test (80Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (IOW): Eastern Yar scheme drought permit/order (1Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	0	0	0	2073	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HSW): Test MAR (5.5Ml/d)	2036	2036	2036	2036	2036	2036	2047	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	2040	0	0	2040	0	0	2040	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2046	0	0	0	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2040	2040	2053	2041	2040	2057	2041	2045	0
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	0	0	0
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 122: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	1.6	0.0	45.0	2.3	0.0	45.0	0.0	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	13.7	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	55.8	46.8	28.1	60.0	47.3	27.8	40.0	32.5	27.8
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	1.0	1.0	11.7	1.0	1.1	14.4	1.0	12.8	10.4
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	95.0	18.0	18.0	95.0	18.0	18.0	94.6	18.0	14.3
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	26.2	16.3	3.2	32.0	15.4	0.0	19.1	6.0	0.0
Demand management (HAZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HKZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HKZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HRZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HRZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSE): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HSW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (HWZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (IOW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSE): Candover (22Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSE): Lower Itchen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (HSW): River Test (80Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (IOW): Eastern Yar scheme drought permit/order (1Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	63.1	8.3	10.8	58.6	8.7	11.9	54.5	3.9	0.0
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.1	4.4	4.4	4.5	4.5	4.5	4.5	4.5	4.5
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	8.7	11.0	8.7	8.7	11.0	8.7	8.5	10.8	8.5
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.9	4.6	4.6	7.4	4.7	4.7	7.3	4.7	4.7
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	26.6	7.3	7.7	24.2	6.9	6.2	28.8	11.2	2.3
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	60.0	60.0	28.1	60.0	60.0	27.8	0.0	0.0	0.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	6.8	1.6	8.5	6.3	1.6	8.5	1.6	1.6

7.1.2 Option selection and utilisation under 1:100 DYAA scenario

Table 123: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2040	2044	0	2040	2043	0	2040	2069	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2040	2069	2041	2042	0	2041	2042	0
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	2037	2037	2037	2037	2037	0	0	0	0
Drought option - supply side (IOW): Eastern Yar scheme drought permit/order (1Ml/d)	0	0	0	0	0	2037	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	0	0	0	2073	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (HSW): Test MAR (5.5Ml/d)	2036	2036	2036	2036	2036	2036	2047	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2046	0	0	0	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	0	0	0
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 124: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	14.2	0.0	45.0	14.9	0.0	45.0	4.2	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	1.5	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	13.7	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	95.0	49.5	18.0	88.8	49.8	18.0	83.3	32.8	18.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	40.0	32.3	3.9	36.1	31.3	0.0	20.0	20.0	0.0
Demand management (HAZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HKZ): NEUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HKZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HRZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSE): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (HSW): NEUBs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HWZ): NEUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (IOW): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - supply side (HSE): Candover (22Ml/d)	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
Drought option - supply side (HSE): Lower Itchen	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Drought option - supply side (HSW): River Test (80Ml/d)	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0
Drought option - supply side (IOW): Eastern Yar scheme drought permit/order (1Ml/d)	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	24.4	22.3	22.3	21.5	21.5	21.5	26.6	26.6	26.6
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.8	4.8	4.8	7.2	4.8	4.8	7.1	4.9	4.9
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	60.0	39.7	33.9	57.0	40.5	33.6	54.5	37.7	37.6
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	60.0	52.3	23.9	60.0	51.3	20.0	0.0	0.0	0.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.4

7.1.3 Option selection and utilisation under 1:500 DYAA scenario

Table 125: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	2040	2040	0	2040	2040	0	2040	2041	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2041	2042	2041	2042	2069	2041	2042	0
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Drought option - supply side (IOW): Eastern Yar scheme drought permit/order (1Ml/d)	0	0	0	0	0	2041	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	0	0	0	2073	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (HSW): Test MAR (5.5Ml/d)	2042	2042	2042	2042	2042	2042	2047	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2046	0	0	0	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2042	2042	2042	2042	2042	2042	2042	2042	2042
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2040	2040	2040	2040	2040	2040	2039	2040	2040
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2035	2035	2035	2036	2036	2036	2036	2036	2036
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	0	0	0
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 126: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	45.0	18.9	0.0	45.0	21.9	0.0	45.0	17.4	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	6.9	0.0	0.0	5.0	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	8.2	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	90.0	90.0	74.5	90.0	90.0	74.8	90.0	90.0	57.3
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	74.1	27.7	18.0	62.4	30.3	18.0	57.9	19.5	18.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	40.0	40.0	12.6	40.0	40.0	1.5	20.0	20.0	0.0
Demand management (HAZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HKZ): NEUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HKZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HRZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSE): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (HSW): NEUBs	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (HWZ): NEUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (IOW): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - supply side (HSE): Candover (22Ml/d)	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
Drought option - supply side (HSE): Lower Itchen	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Drought option - supply side (HSW): River Test (80Ml/d)	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (IOW): Eastern Yar scheme drought permit/order (1Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	21.8	21.8	21.8	21.8	21.8	21.8	21.8	22.9	21.8
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	3.8	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	15.4	12.4	9.4	15.5	12.4	9.4	15.2	12.1	9.1
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	7.8	4.2	3.4	7.2	4.2	3.4	7.1	4.1	3.3
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	58.0	30.1	33.9	47.4	29.6	33.4	37.4	39.0	37.9
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	60.0	60.0	32.6	60.0	60.0	21.5	0.0	0.0	0.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	8.5	1.6	8.5	8.5	1.6	8.5	8.5	1.6

7.1.4 Option selection and utilisation under 1:500 DYCP scenario

Table 127: Options selected in the Western area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (HWZ): Winchester to Kennet Valley	2050	0	0	2050	0	0	2050	0	0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	2048	0	0	2065	0	0	0	0	0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0	0	0	2049	0	0	0	0	0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	2035	2035	2035	2035	2035	2035	2035	2035	2035
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	2032	2032	2032	2032	2032	2032	2032	2032	2032
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0	0	0	0	0	0	2043	2051	0
Demand management (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HAZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HKZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HRZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSE): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HSW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (HWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (IOW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HAZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HAZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HKZ): NEUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HKZ): TUBs	2035	2035	2035	2035	2035	2035	2035	2035	2035
Drought option - demand side (HRZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HRZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSE): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSE): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HSW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (HSW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (HWZ): NEUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (HWZ): TUBs	2029	2029	2029	2029	2029	2029	2029	2029	2029
Drought option - demand side (IOW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (IOW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (IOW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Candover (22Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSE): Lower Itchen	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Drought option - supply side (HSW): River Test (80Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	2040	0	0	2040	0	0	0	0	0
Drought option - supply side (IOW): Eastern Yar scheme drought permit/order (1Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0	0	0	0	0	0	2073	0	0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	2028	2028	2028	2028	2028	2028	2028	2028	2028
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (HSW): Test MAR (5.5Ml/d)	2042	2042	2042	2042	2042	2042	2047	0	0
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2037	2037	2037	2037	2037	2037	2037	2037	2037
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0	0	0	2046	0	0	0	0	0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	2042	2042	2042	2042	2042	2042	2042	2042	2042
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	2040	2042	2042	2040	2042	2042	2040	2042	2042
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (HAZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HKZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HRZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSE): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HSW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (HWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (IOW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	2035	2035	2035	2035	2035	2035	0	0	0
Recycling (IOW): Sandown (8.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Table 128: Options selected in the Western area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (HSE): Itchen WSW to PWC Source A (45Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (HSW): Existing supply to large industrial user (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk export (HWZ): Winchester to Kennet Valley	7.8	0.0	0.0	4.6	0.0	0.0	1.5	0.0	0.0
Bulk import (HAZ): T2ST to Andover (20Ml/d)	11.5	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0
Bulk import (HKZ): T2ST to HKZ (5Ml/d)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Bulk import (HSE): Havant Thicket Reservoir to Itchen WSW (90Ml/d)	69.0	61.1	58.6	69.0	61.9	59.4	69.0	52.5	46.0
Bulk import (HSE): PWC Source A to Eastleigh WSR (30Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (HSE): PWC Source A to Itchen WSW (21Ml/d)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Bulk import (HWZ): T2ST to Yew Hill (95Ml/d)	56.8	16.6	18.0	47.5	15.7	18.0	43.8	18.0	18.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (HAZ): Basket - low	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Demand management (HAZ): Gov led initiatives WRSE profile C	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Demand management (HKZ): Basket - low	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Demand management (HKZ): Gov led initiatives WRSE profile C	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Basket - low	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Demand management (HRZ): Gov led initiatives WRSE profile C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Demand management (HSE): Basket - low	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Demand management (HSE): Gov led initiatives WRSE profile C	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Demand management (HSW): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (HSW): Gov led initiatives WRSE profile C	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Demand management (HWZ): Basket - low	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Demand management (HWZ): Gov led initiatives WRSE profile C	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Demand management (IOW): Basket - low	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Demand management (IOW): Gov led initiatives WRSE profile C	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Drought option - demand side (HAZ): NEUBs	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Drought option - demand side (HAZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (HAZ): TUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (HKZ): NEUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (HKZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HRZ): NEUBs	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Drought option - demand side (HRZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): NEUBs	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Drought option - demand side (HSE): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (HSE): TUBs	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
Drought option - demand side (HSW): NEUBs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Drought option - demand side (HSW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HSW): TUBs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Drought option - demand side (HWZ): NEUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (HWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (HWZ): TUBs	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Drought option - demand side (IOW): NEUBs	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Drought option - demand side (IOW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (IOW): TUBs	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Drought option - supply side (HSE): Candover (22Ml/d)	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
Drought option - supply side (HSE): Lower Itchen	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
Drought option - supply side (HSW): Sea tankering from Norway (45Ml/d)	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Drought option - supply side (HSW): River Test (80Ml/d)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
Drought option - supply side (IOW): Caul Bourne (1.5Ml/d)	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (IOW): Eastern Yar scheme drought permit/order (1Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (HAZ): Recommission Chilbolton (0.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Groundwater (HKZ): Remove constraints at Newbury to increase yield (1.2Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (HRZ): New boreholes at Romsey (4.8Ml/d)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Groundwater (HRZ): Remove constraints at Kings Sombourne (2.5Ml/d)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Groundwater (HSW): Test MAR (5.5Ml/d)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Groundwater (IOW): New borehole at Eastern Yar3 (1.5Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (IOW): New boreholes at Newchurch (LGS) (1.9Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (HAZ-HKZ): Andover to Kingsclere bi-directional (10Ml/d)	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (HSE-HRZ): Abbotswood - existing (1.1Ml/d)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Interzonal transfer (HSE-HWZ): Itchen WSW to Yew Hill WSW bi-directional (74Ml/d)	16.9	16.9	16.9	16.9	16.9	16.9	20.0	16.9	16.9
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Interzonal transfer (HSW-HRZ): Romsey Town and Broadlands valve expansion (5Ml/d)	4.4	5.0	5.0	4.9	5.0	5.0	4.9	5.0	5.0
Interzonal transfer (HSW-HSE): Existing transfer (24Ml/d)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Interzonal transfer (HSW-IOW): Cross-Solent main existing (18Ml/d)	18.0	4.4	4.4	18.0	4.4	4.4	18.0	4.4	4.4
Interzonal transfer (HWZ-HAZ): Winchester to Andover bi-directional (15Ml/d)	10.6	3.2	5.5	9.9	2.1	4.4	9.8	1.3	7.3
Interzonal transfer (HWZ-HSE): Existing transfer (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Interzonal transfer (HWZ-HSW): Yew Hill WSW to River Test WSW bi-directional (60Ml/d)	45.0	27.5	27.5	39.8	27.0	27.0	43.5	30.7	30.6
Leakage reduction (HAZ): Basket - low	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Leakage reduction (HKZ): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HRZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Leakage reduction (HSE): Basket - low	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Leakage reduction (HSW): Basket - low	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Leakage reduction (HWZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Leakage reduction (IOW): Basket - low	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Recycling (HSE): Recharge of Havant Thicket from recycled water from Portmouth Harbour WTW (60Ml/d)	20.0	20.0	20.0	20.0	20.0	20.0	0.0	0.0	0.0
Recycling (IOW): Sandown (8.5Ml/d)	8.5	1.6	1.6	8.5	1.6	1.6	8.5	1.6	1.6

7.2 Central area

7.2.1 Option selection and utilisation under 1:100 NYAA scenario

Table 129: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2046	2071	2041	2052	0	2041	2047	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2040	2040	2041	2040	2041	2051	2040	2041	2070
Bulk import (SNZ): SES re-zoning (4Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2054	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	2041	0	0	2046	0	0	2046	0	0
Desalination (SWZ): Tidal River Arun (10Ml/d) Phase 2	2058	0	0	0	0	0	2057	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2046	0	0	2051	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SBZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SNZ): TUBs	0	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SWZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2040	2041	2051	2040	2041	2064	2040	2041	0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2041	0	0	2041	0	0	2041	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2040	0	2040	2040	0	2040	2040	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2041	0	0	2041	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	2056	0	0	2073	0	0	2041	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2047	0	0	2047	0	0	2048	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2045	0	0	2041	0	0	2046	0	0

Table 130: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	26.2	16.3	3.2	32.0	15.4	0.0	19.1	6.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	2.2
Bulk import (SNZ): SES re-zoning (4Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (10Ml/d) Phase 2	10.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SNZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SWZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	16.7	0.0	0.0	10.9	0.0	0.0	4.6	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	29.4	26.7	0.0	29.7	25.9	0.0	28.0	18.3	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	13.0	11.4	13.0	13.0	12.5	13.0	13.0	6.8
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	17.0	12.5	17.0	17.0	11.2	17.0	17.0	12.5
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	12.8	15.0	15.0	12.1	15.0	15.0	11.2
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	7.2	15.0	15.0	3.0
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

7.2.2 Option selection and utilisation under 1:100 DYAA scenario

Table 131: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2040	2069	2041	2042	0	2041	2042	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2034	2034	2034	2034	2034	2034	2034	2034	2034
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2054	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	2041	0	0	2046	0	0	2046	0	0
Desalination (SWZ): Tidal River Arun (10Ml/d) Phase 2	2058	0	0	0	0	0	2057	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2046	0	0	2051	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2051	0	0	0	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2041	0	2040	2041	0	2040	2041	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2062	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2031	2031	2031	2031	2031	2031	2033	2033	2033
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	2056	0	0	2073	0	0	2041	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2047	0	0	2047	0	0	2048	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2045	0	0	2041	0	0	2046	0	0

Table 132: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	40.0	32.3	3.9	36.1	31.3	0.0	20.0	20.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	4.2	0.0	0.0	2.0	0.0	0.0	6.3	0.0	0.0
Desalination (SWZ): Tidal River Arun (10Ml/d) Phase 2	2.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drought option - demand side (SNZ): NEUBs	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Drought option - demand side (SWZ): NEUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	28.0	16.2	0.0	21.8	15.2	0.0	18.2	7.5	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	12.8	6.4	13.0	13.0	6.4	13.0	9.9	5.0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	16.0	5.5	17.0	15.9	5.5	17.0	10.4	6.4
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	10.0	15.0	15.0	9.8	15.0	15.0	9.8
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	13.7	15.0	15.0	10.7
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	19.5	0.0	0.0	19.5	0.0	0.0	19.5	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0

7.2.3 Option selection and utilisation under 1:500 DYAA scenario

Table 133: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	2040	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	2066	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	2040	2041	2042	2041	2042	2069	2041	2042	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2034	2034	2034	2034	2034	2034	2034	2034	2034
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2041	2054	0	2040	2040	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	2041	0	0	2046	0	0	2046	0	0
Desalination (SWZ): Tidal River Arun (10Ml/d) Phase 2	2058	0	0	0	0	0	2057	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2046	0	0	2051	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2041	0	0	2074	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	2040	2040	0	2040	2040	0	2040	2041	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	2041	0	0	2051	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	2031	2031	2031	2031	2031	2031	2041	2036	0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	2056	0	0	2073	0	0	2041	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2047	0	0	2047	0	0	2048	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	2045	0	0	2041	0	0	2046	0	0

Table 134: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	40.0	40.0	12.6	40.0	40.0	1.5	20.0	20.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	10.0	10.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (10Ml/d) Phase 2	10.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Drought option - demand side (SNZ): NEUBs	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Drought option - demand side (SWZ): NEUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	6.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	30.0	18.5	0.0	23.8	17.5	0.0	21.2	9.7	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	3.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	13.0	13.0	7.3	13.0	13.0	7.3	13.0	12.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	17.0	17.0	6.8	17.0	17.0	6.8	17.0	12.5	7.3
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	15.0	11.3	15.0	15.0	11.0	15.0	15.0	11.0
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	12.3
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	6.8	0.0	0.0	6.8	0.0	0.0	6.8	0.0	0.0

7.2.4 Option selection and utilisation under 1:500 DYCP scenario

Table 135: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0	0	0	0	0	0	2043	2051	0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SES to SNZ (10Ml/d)	2040	2040	2040	2040	2040	2040	2040	2040	2040
Bulk import (SNZ): SES re-zoning (4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	2043	0	0	0	0	2040	2040	2040	2040
Demand management (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SBZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SNZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SWZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (SWZ): Tidal River Arun (10Ml/d)	2041	0	0	2046	0	0	2046	0	0
Desalination (SWZ): Tidal River Arun (10Ml/d) Phase 2	2058	0	0	0	0	0	2057	0	0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	2046	0	0	2051	0	0	0	0	0
Drought option - demand side (SBZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SBZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SNZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - demand side (SWZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	2040	2040	2040	2040	2040	0	0	0	0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	2036	2036	2036	2036	2036	2036	2036	2036	2036
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	2049	2042	2042	2073	2042	2070	0	0	0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2029	2029	2029	2029	2029	2029	2029	2029	2029
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	2042	0	0	2042	0	0	0	0	0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	0	0	0	0	0	0	0	0	0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SBZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SNZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SWZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	0	0	0	0	0	0	0	0	0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	2066	0	0	0	0	0	0	0	0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0	0	0	0	0	0	0	0	0

Table 136: Options selected in the Central area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYCP planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Bulk export (SNZ): SNZ to SES (10Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SNZ): Weir Wood Reservoir to SEW RZ2 (5.4Ml/d)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bulk import (SBZ): SEW to Rottingdean (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): Havant Thicket Reservoir to Pulborough (50Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (SNZ): PWC to Pulborough (15Ml/d)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Bulk import (SNZ): SES to SNZ (10Ml/d)	10.0	10.0	10.0	10.0	10.0	10.0	0.6	3.1	0.7
Bulk import (SNZ): SES re-zoning (4Ml/d)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Bulk import (SNZ): SEW RZ5 to Pulborough (10Ml/d)	7.7	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0
Demand management (SBZ): Basket - low	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Demand management (SBZ): Gov led initiatives WRSE profile C	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Demand management (SNZ): Basket - low	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
Demand management (SNZ): Gov led initiatives WRSE profile C	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Demand management (SWZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (SWZ): Gov led initiatives WRSE profile C	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Desalination (SWZ): Tidal River Arun (10Ml/d)	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (10Ml/d) Phase 2	2.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0
Desalination (SWZ): Tidal River Arun (20Ml/d) Phase 2	4.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SBZ): NEUBs	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Drought option - demand side (SBZ): Reduce transfer to other commercial customers	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SBZ): TUBs	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Drought option - demand side (SNZ): NEUBs	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Drought option - demand side (SNZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SNZ): TUBs	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Drought option - demand side (SWZ): NEUBs	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Drought option - demand side (SWZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SWZ): TUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Drought option - supply side (SNZ): Pulborough surface water phases 1-3 (23Ml/d)	8.9	2.4	2.3	1.2	1.5	0.0	0.0	0.0	0.0
Groundwater (SBZ): Lewes Road (3.5Ml/d)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Groundwater (SNZ): New borehole at Petworth (4Ml/d)	4.0	4.0	4.0	0.2	4.0	2.4	0.0	0.0	0.0
Groundwater (SNZ): Reinstate West Chiltington (3.1Ml/d)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Groundwater (SNZ): Petersfield refurbishment (1.6Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Interzonal transfer (SBZ-SWZ): Brighton to Worthing	6.8	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SNZ-SWZ): Pulborough to Worthing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): Pulborough winter transfer stage 2 (4Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve additional capacity (13Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SBZ): V6 valve - existing (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interzonal transfer (SWZ-SNZ): Rock Road bi-directional - existing (15Ml/d)	15.0	9.6	9.8	15.0	10.5	10.8	15.0	11.7	12.0
Leakage reduction (SBZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leakage reduction (SNZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Leakage reduction (SWZ): Basket - low	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Recycling (SNZ): Littlehampton with direct river discharge (15Ml/d)	3.0	7.5	7.3	3.0	6.4	3.0	3.0	3.0	3.0
Recycling (SNZ): Horsham with storage at Pulborough (6.8Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SNZ): River Adur Offline Reservoir (19.5Ml/d)	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Treatment capacity (SWZ): Pulborough winter transfer stage 1 (2Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

7.3 Eastern area

7.3.1 Option selection and utilisation under NYAA scenario

Table 137: Options selected in the Central area and the earliest year of selection in each of the supply-demand situations under NYAA planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2058	0	0	2055	0	0	2057	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk export (SHZ): Rye to SEW RZ8	2059	0	0	2051	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	2050	2050	2051	2051	2050	2051	2050	2050	2065
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SHZ): SEW RZ8 to Rye	0	0	0	0	2060	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d)	0	0	2070	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KME): Isle of Sheppey (20Ml/d)	2046	2041	0	2046	2041	0	2046	2046	0
Desalination (KME): Isle of Sheppey (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	2040	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	2040	0	0	0	0	0	0	0	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	0	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	0	2046	0	2041	2041	0	2041	2041	0
Desalination (KTZ): East Thanet (10Ml/d)	0	2063	0	0	2065	0	0	0	0
Desalination (KTZ): East Thanet (10Ml/d) Phase 2	2070	0	0	2065	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	0	0	2041	0	0	0	0	0
Drought option - demand side (KME): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KME): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KME): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KMW): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (KTZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): NEUBs	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0	0	0	0	0	0	0	0	0
Drought option - demand side (SHZ): TUBs	0	0	0	0	0	0	0	0	0
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	2040	2040	0	2040	2040	0	0	2042	2043
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2059	0	0	2040	0	0	2059	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	2036	2036	2036	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 138: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under NYAA planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	7.2	0.0	0.0	5.4	0.0	0.0	5.8	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	8.9	20.0	20.0	17.9	20.0	20.0	20.0	20.0	8.5
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk import (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	3.0	5.2	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d)	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	19.9	0.0	20.0	20.0	0.0	18.0	16.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	6.7	0.0	0.0	9.5	0.0	10.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	0.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KTZ): East Thanet (10Ml/d)	0.0	5.1	0.0	0.0	4.8	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (10Ml/d) Phase 2	8.5	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KMW): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KTZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): NEUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (SHZ): TUBs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	3.5	15.8	4.3	3.5	15.8	3.9	13.7	14.0	3.5
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	40.6	44.7	26.2	42.9	41.8	23.2	44.7	40.1	22.1
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	8.0	6.6	6.6	6.6	6.6	6.6	8.8	6.6	6.6
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	13.2	14.0	14.0	12.7	14.0	14.0	10.7
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.9	3.3	0.0	2.5	2.8	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.3	0.0	0.0	15.3	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	3.6	3.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

7.3.2 Option selection and utilisation under 1:100 DYAA scenario

Table 139: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:100 DYAA planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	0	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2045	0	0	2045	0	0	2050	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2050	0	0	0	0	0	0	0	0
Bulk export (SHZ): Rye to SEW RZ8	2058	0	0	2050	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	2050	2051	2051	2050	2051	2050	2050	0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SHZ): SEW RZ8 to Rye	0	0	0	0	0	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d)	0	0	2070	0	0	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2046	2041	0	2046	2041	0	2046	2046	0
Desalination (KME): Isle of Sheppey (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	2040	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	2040	0	0	0	0	0	0	0	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	0	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	0	2046	0	2041	2041	0	2041	2041	0
Desalination (KTZ): East Thanet (10Ml/d)	0	2063	0	0	2065	0	0	0	0
Desalination (KTZ): East Thanet (10Ml/d) Phase 2	2070	0	0	2065	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	0	0	2041	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	2065	2050	2041	2049	2064	0	2068	2061
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2036	2036	2036	2040	2040	2041	2040	2041	2042
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2059	0	0	2040	0	0	2059	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	2041	2041	2046	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 140: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:100 DYAA planning scenario (Least Cost Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	4.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	20.0	14.5	5.6	20.0	20.0	13.9	15.9	0.0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk import (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d)	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	12.0	0.0	20.0	14.7	0.0	14.4	11.6	0.0
Desalination (KME): Isle of Sheppey (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	4.9	0.0	0.0	2.3	0.0	10.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	0.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KTZ): East Thanet (10Ml/d)	0.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (10Ml/d) Phase 2	2.6	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (KMW): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (KTZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	1.4	9.3	5.5	1.4	8.8	11.4	3.7	4.5	1.4
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	43.4	44.7	23.6	41.5	42.0	20.2	44.7	37.4	23.7
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	7.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	6.6	14.0	14.0	6.5	14.0	14.0	3.8
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	1.5
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	12.9
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.1	0.0	0.0	13.6	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	3.6	3.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

7.3.3 Option selection and utilisation under 1:500 DYAA scenario

Table 141: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:500 DYAA planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	2075	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2045	0	0	2045	0	0	2050	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2050	0	0	2051	0	0	2050	0	0
Bulk export (SHZ): Rye to SEW RZ8	2058	0	0	2050	0	0	2060	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	2050	2051	0	2050	2051	2066	2050	2065
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SHZ): SEW RZ8 to Rye	0	0	0	0	2061	2075	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	2058	2058	2058	2058	2058	2058	2058	2058	2058
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d)	0	0	2070	0	0	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2046	2041	0	2046	2041	0	2046	2046	0
Desalination (KME): Isle of Sheppey (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	2040	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	2040	0	0	0	0	0	0	0	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	0	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	0	2046	0	2041	2041	0	2041	2041	0
Desalination (KTZ): East Thanet (10Ml/d)	0	2063	0	0	2065	0	0	0	0
Desalination (KTZ): East Thanet (10Ml/d) Phase 2	2070	0	0	2065	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	0	0	2041	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	2040	2040	2040	2036	2036	2036	2041	2041	2064
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2027	2027	2027	2027	2027	2027	2027	2027	2027
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	2050	2040	2066	2040	2040	0	2046	0	2061
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	2059	0	0	2040	0	0	2059	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	2040	2040	2042	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	2054	0	2053	2061	0	0	2063	0	0

Table 142: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYAA planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	7.4	6.8	6.8	7.2	6.8	6.8	6.8	6.8	6.8
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	3.8	0.0	0.0	4.0	0.0	0.0	2.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	16.2	0.0	0.0	10.4	0.0	0.0	3.8	0.0	0.0
Bulk export (SHZ): Rye to SEW RZ8	10.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	20.0	9.0	0.0	20.0	20.0	7.7	9.0	4.5
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Bulk import (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d)	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	20.0	17.4	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	10.0	0.0	0.0	9.4	0.0	10.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d)	20.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	0.0	20.0	0.0	20.0	20.0	0.0	20.0	20.0	0.0
Desalination (KTZ): East Thanet (10Ml/d)	0.0	2.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (10Ml/d) Phase 2	10.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Drought option - demand side (KMW): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (KTZ): NEUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): NEUBs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	0.0	11.2	0.0	0.0	10.7	9.9	14.0	8.1	1.0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	43.3	44.7	31.4	42.9	40.0	24.3	44.7	37.3	22.6
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	13.9	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	14.0	14.0	10.1	14.0	14.0	9.6	14.0	14.0	5.8
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	9.0	2.9	0.0	3.3	2.4	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	3.8
Recycling (KMW): Medway to lake (14Ml/d)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	15.3	0.0	0.0	15.3	0.0	0.0	15.3	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0

7.3.4 Option selection and utilisation under 1:500 DYCP scenario

Table 143: Options selected in the Eastern area and the earliest year of selection in each of the supply-demand situations under 1:500 DYCP planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): Near Rochester to SEW RZ6	0	0	0	0	0	0	0	0	0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	2067	0	0	2070	0	0	0	0	0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	2071	2050	2051	0	2050	2051	0	2050	2065
Bulk export (SHZ): Rye to SEW RZ8	0	0	0	0	2060	0	0	0	0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0	0	0	0	0	0	0	0	0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Bulk import (SHZ): SEW RZ8 to Rye	0	0	0	0	0	0	0	0	0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0	0	0	0	0	0	0	0	0
Demand management (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KME): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KMW): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (KTZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Demand management (SHZ): Gov led initiatives WRSE profile C	2026	2026	2026	2026	2026	2026	2026	2026	2026
Desalination (KME): Isle of Sheppey (10Ml/d)	0	0	2070	0	0	0	0	0	0
Desalination (KME): Isle of Sheppey (20Ml/d)	2046	2041	0	2046	2041	0	2046	2046	0
Desalination (KME): Isle of Sheppey (20Ml/d) Phase 2	2051	0	0	0	0	0	0	0	0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d)	0	0	2041	0	0	2041	0	2040	0
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	2040	0	0	0	0	0	0	0	0
Desalination (KMW): Thames Estuary (20Ml/d)	2040	2040	0	2040	2040	0	2040	0	0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	0	2046	0	2041	2041	0	2041	2041	0
Desalination (KTZ): East Thanet (10Ml/d)	0	2063	0	0	2065	0	0	0	0
Desalination (KTZ): East Thanet (10Ml/d) Phase 2	2070	0	0	2065	0	0	0	0	0
Desalination (KTZ): East Thanet (20Ml/d)	2041	0	0	2041	0	0	0	0	0
Drought option - demand side (KME): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KME): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KME): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KMW): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KMW): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (KTZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): NEUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	2027	2027	2027	2027	2027	2027	2027	2027	2027
Drought option - demand side (SHZ): TUBs	2026	2026	2026	2026	2026	2026	2026	2026	2026
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0	0	0	0	0	0	0	0	0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	0	0	2051	0	2068	2053	0	0	0
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	0	0	2054	0	0	2056	0	0	0
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	2064	2050	2048	2068	2050	0	0	2059	0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	2026	2026	2026	2026	2026	2026	2026	2026	2026
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0	0	0	0	2054	0	0	2068	0
Leakage reduction (KME): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KMW): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (KTZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Leakage reduction (SHZ): Basket - low	2026	2026	2026	2026	2026	2026	2026	2026	2026
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	2031	2031	2031	2031	2031	2031	2031	2031	2031
Recycling (KMW): Medway to lake (14Ml/d)	0	0	2059	0	0	2068	0	0	0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	0	0	0	0	0	0	0	0	0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	0	0	0	0	0	0	0	0	0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0	0	0	0	0	0	0	0	0

Table 144: Options selected in the Eastern area and their maximum utilisation (Ml/d) in each of the supply-demand situations under 1:500 DYCP planning scenario (RESIL Plan including import of water via sea tankers).

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Asset enhancement (KMW): Remove network constraint at Longfield (13Ml/d)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Bulk export (KME): To SEW RZ6 from Hartlip (7.4Ml/d)	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Bulk export (KMW): Near Rochester to SEW RZ6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk export (KMW): To SEW RZ3 via Bewl Reservoir (8Ml/d)	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Bulk export (KMW): To SEW RZ6 (0.5Ml/d)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulk export (KTZ): SWS Deal to AFW AZ7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk export (KTZ): SWS Deal to AFW AZ7 (4Ml/d)	1.4	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0
Bulk export (KTZ): Near Canterbury to SEW Canterbury (20Ml/d)	4.0	20.0	13.9	0.0	20.0	14.3	0.0	20.0	16.0
Bulk export (SHZ): Rye to SEW RZ8	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0
Bulk import (KTZ): AFW - existing (0.1Ml/d)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bulk import (KTZ): SEW Canterbury to Near Canterbury (20Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulk import (KTZ): SEW Kingston to Near Canterbury (2Ml/d)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Bulk import (SHZ): SEW RZ8 to Rye	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand adjustment (KTZ): Headroom adjustment for Regional Plan integrity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Demand management (KME): Basket - low	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Demand management (KME): Gov led initiatives WRSE profile C	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Demand management (KMW): Basket - low	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Demand management (KMW): Gov led initiatives WRSE profile C	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Demand management (KTZ): Basket - low	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Demand management (KTZ): Gov led initiatives WRSE profile C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Demand management (SHZ): Basket - low	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Demand management (SHZ): Gov led initiatives WRSE profile C	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Desalination (KME): Isle of Sheppey (10Ml/d)	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d)	4.0	4.0	0.0	4.0	4.0	0.0	4.0	4.0	0.0
Desalination (KME): Isle of Sheppey (20Ml/d) Phase 2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (10Ml/d)	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	0.0

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Desalination (KMW): Thames Estuary (10Ml/d) Phase 2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d)	4.0	4.0	0.0	4.0	4.0	0.0	4.0	0.0	0.0
Desalination (KMW): Thames Estuary (20Ml/d) Phase 2	0.0	4.0	0.0	4.0	4.0	0.0	4.0	4.0	0.0
Desalination (KTZ): East Thanet (10Ml/d)	0.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (10Ml/d) Phase 2	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
Desalination (KTZ): East Thanet (20Ml/d)	4.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
Drought option - demand side (KME): NEUBs	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Drought option - demand side (KME): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KME): TUBs	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Drought option - demand side (KMW): NEUBs	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Drought option - demand side (KMW): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KMW): TUBs	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drought option - demand side (KTZ): NEUBs	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Drought option - demand side (KTZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (KTZ): TUBs	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Drought option - demand side (SHZ): NEUBs	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Drought option - demand side (SHZ): Reduce transfer to other commercial customers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Drought option - demand side (SHZ): TUBs	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drought option - supply side (KMW): River Medway Scheme 1-4 (17Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater (KME): Recommission Gravesend (2.7Ml/d)	0.0	0.0	2.7	0.0	0.0	2.7	0.0	0.0	0.0
Groundwater (SHZ): Reconfigure Rye Wells (1.5Ml/d)	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0	0.0
Interzonal transfer (KME-KTZ): KME-KTZ bi-directional (15.8Ml/d)	4.5	7.8	0.3	3.5	6.7	0.0	0.0	1.3	0.0
Interzonal transfer (KMW-KME): Existing transfer (44.7Ml/d)	8.8	20.9	17.4	5.7	12.2	14.7	5.7	5.7	8.5
Interzonal transfer (KMW-SHZ): Bewl Reservoir (35Ml/d) - existing	12.3	7.0	7.3	9.9	16.5	7.3	7.9	6.3	6.3
Interzonal transfer (KTZ-KME): Existing transfer (14Ml/d)	1.5	14.0	14.0	1.5	14.0	13.7	1.5	14.0	8.6
Interzonal transfer (KTZ-KME): Utilise full existing transfer capacity (9Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leakage reduction (KME): Basket - low	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Leakage reduction (KMW): Basket - low	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1

Option	Supply-demand balance situation								
	1	2	3	4	5	6	7	8	9
Leakage reduction (KTZ): Basket - low	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Leakage reduction (SHZ): Basket - low	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Recycling (KME): Sittingbourne industrial water reuse (7.5Ml/d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Recycling (KMW): Medway to lake (14Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycling (SHZ): Hastings to Darwell (15.3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycling (SHZ): Tunbridge Wells with Bewl (3.6Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage (SHZ): Raising Bewl Reservoir 0.4m (3Ml/d)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

8 Costs and Best Value Metrics Scores

This section provides the costs of the plans and their best value metrics scores. The costs are based on Social Time Preference Rate (STPR) discounting. Cost breakdown by option category is based on output from the WRSE investment model. Some of these cost have been revised as part of Price Review 2024 (PR24) submission. Best Value metrics scores are aggregated at the WRSE regional level.

8.1 Best Value Plan (including import of water via sea tankers)

Table 145: Cost breakdown for Best Value Plan (including import of water via sea tankers) using the Social Time Preference Rate (STPR) discounting method.

Cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Capex	2,973	2,272	1,926	2,726	2,230	1,834	2,312	2,093	1,699	2,229	(£m)
Fixed opex	2,982	2,895	2,848	2,947	2,882	2,829	2,883	2,855	2,800	2,880	(£m)
Fixed operational carbon	472	472	472	472	472	472	472	472	472	472	(£m)
Embedded carbon	198	147	128	181	143	121	157	136	115	147	(£m)
Variable opex	674	401	230	615	393	221	511	318	193	395	(£m)
Variable carbon opex	48	25	12	43	24	11	33	18	9	25	(£m)

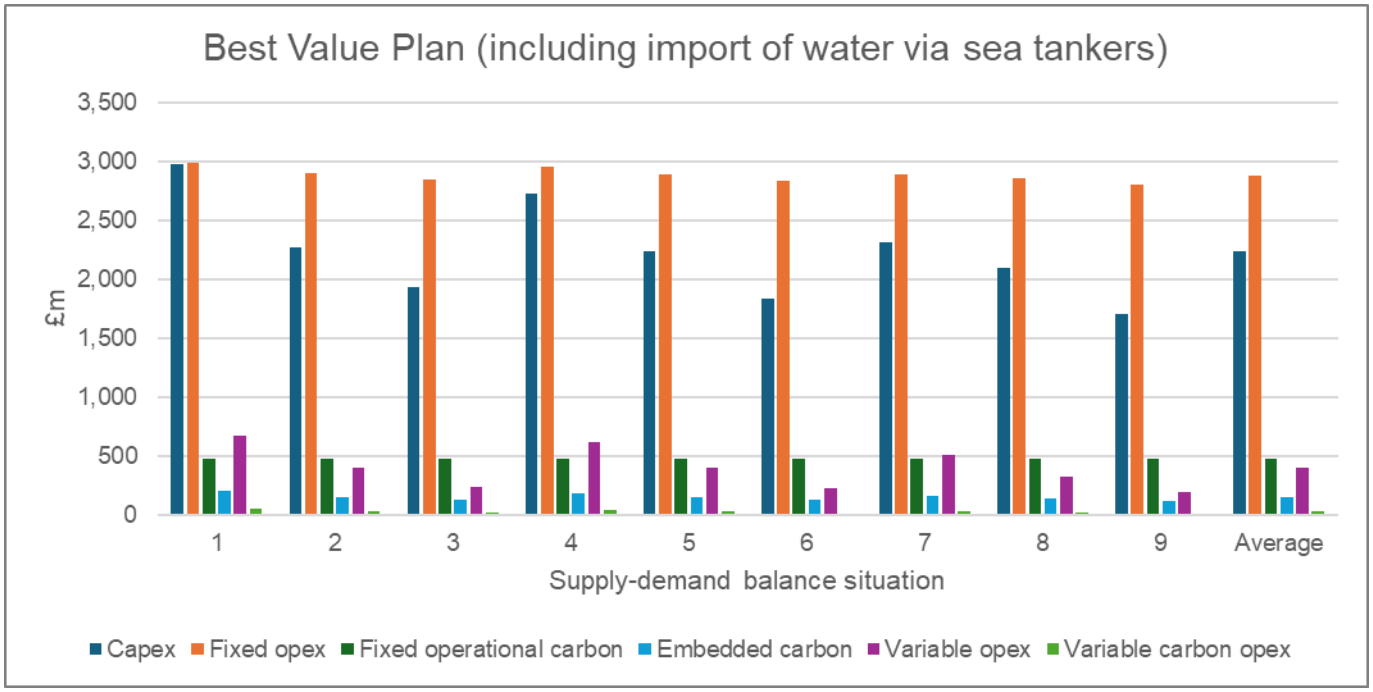

Figure 145: Cost breakdown for the Best Value Plan (including import of water via sea tankers) using the STPR discounting method for each supply-demand balance situation as well as the average across all situations.

Table 146: Cost breakdown by option category for Best Value Plan (including import of water via sea tankers) using the Social Time Preference Rate (STPR) discounting method.

Option category cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Catchment management	0	0	0	0	0	0	0	0	0	0	(£m)
Demand drought intervention	0	0	0	0	0	0	0	0	0	0	(£m)
Demand management	251	251	251	251	251	251	251	251	251	251	(£m)

Option category cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Desalination	1,423	678	176	1,164	709	139	610	529	4	604	(£m)
Direct river abstraction	0	0	0	0	0	0	0	0	0	0	(£m)
Existing WAFU	0	0	0	0	0	0	0	0	0	0	(£m)
Groundwater	37	36	35	37	36	35	29	18	16	31	(£m)
Infrastructure	384	342	339	383	342	339	376	340	339	354	(£m)
Leakage reduction	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	(£m)
Other	20	20	19	20	20	18	20	20	17	19	(£m)
Reservoir	108	1	1	111	1	1	90	0	0	35	(£m)
Reuse	1,123	1,033	1,005	1,028	930	902	1,017	916	889	982	(£m)
Supply drought intervention	102	102	102	102	102	102	90	90	90	98	(£m)
Tankering	87	87	87	87	87	87	87	87	87	87	(£m)
Trading	0	0	0	0	0	0	0	0	0	0	(£m)
Transfer	1,084	942	880	1,073	945	893	1,073	920	875	965	(£m)
Transfers into region	59	53	54	58	53	53	58	54	54	55	(£m)

Table 147: Emissions breakdown for Best Value Plan (including import of water via sea tankers).

Emissions breakdown	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Capital emissions	1,260,248	912,917	785,853	1,145,065	880,349	734,503	983,936	836,831	699,801	915,500	(tonnes)
Operational emissions	2,981,458	2,848,933	2,781,756	2,954,548	2,846,872	2,777,623	2,903,021	2,817,031	2,771,004	2,853,583	(tonnes)

Table 148: Electricity emissions breakdown for Best Value Plan (including import of water via sea tankers).

Electricity breakdown	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Generated (on site)	0	0	0	0	0	0	0	0	0	0	(GWh)
Grid	19,773	10,342	3,793	17,220	10,190	3,397	12,440	7,425	2,594	9,686	(GWh)
Renewable	0	0	0	0	0	0	0	0	0	0	(GWh)

Table 149: Environmental metrics score for Best Value Plan (including import of water via sea tankers) aggregated at the regional level.

Environmental	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
SEA environmental benefit	66,832	64,952	64,818	67,726	65,144	64,656	66,606	64,687	64,549	65,552
SEA environmental disbenefit	105,830	78,713	74,204	98,089	78,859	72,412	84,287	70,582	63,791	80,752
Natural capital	81,496,825	80,456,325	80,643,092	80,433,763	80,592,877	80,942,941	81,030,469	80,863,754	81,136,187	80,844,026
Bio-diversity net gain	-197,550	-138,031	-119,668	-195,817	-143,734	-116,591	-144,506	-120,807	-88,697	-140,600

Table 150: Societal metrics score for Best Value Plan (including import of water via sea tankers) aggregated at the regional level.

Social	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
Customer preference	35,751	34,054	33,827	35,560	34,080	33,620	34,285	33,464	33,000	34,182

Table 151: Resilience metrics score for Best Value Plan (including import of water via sea tankers) aggregated at the regional level.

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
Reliability	30.1	30.6	33.4	29.7	30.7	33.6	32.0	35.7	40.0	32.9
R1: Uncertainty of option supply/demand benefit	6.3	6.0	6.5	6.1	6.0	6.5	6.3	7.0	7.8	6.5

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
R3: Risk of service failure due to other physical hazards	7.1	7.6	8.5	7.2	7.6	8.5	7.9	9.0	10.4	8.2
R4: Availability of additional headroom	6.6	7.0	7.2	6.7	7.0	7.2	7.3	7.7	7.9	7.2
R5: Catchment/raw water quality risks (incl. climate change)	4.1	4.2	4.7	3.8	4.2	4.8	4.3	5.0	5.8	4.6
R6: Capacity of catchment services	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1
R7: Risk of service failure to other exceptional events	5.5	5.9	6.6	5.6	5.9	6.6	6.1	7.0	8.1	6.4
R8: Soil health	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Reliability	**Supply-demand situation**									**Average**
Metric	1	2	3	4	5	6	7	8	9	
Adaptability	14.6	16.1	18.0	14.7	16.1	17.7	16.6	18.9	21.4	17.1
A3: Operational complexity and flexibility	6.8	7.5	8.4	6.9	7.5	8.4	7.7	8.9	10.3	8.1
A4: WRZ connectivity	7.7	8.6	9.6	7.6	8.6	9.3	8.8	9.9	11.1	9.0
A7: Customer relations support engagement with demand management	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
R5: Catchment/raw water quality risks (incl. climate change)	14.6	16.1	18.0	14.7	16.1	17.7	16.6	18.9	21.4	17.1
Reliability	**Supply-demand situation**									**Average**
Metric	1	2	3	4	5	6	7	8	9	
Evolvability	19.9	20.6	22.6	19.9	20.7	22.7	21.2	24.3	27.6	22.2
E1: Scaleability and modularity of proposed changes	8.9	9.6	10.7	8.9	9.7	10.8	9.9	11.5	13.1	10.4
E2: Intervention lead times	4.1	4.1	4.4	4.0	4.1	4.3	4.2	4.7	5.2	4.3
E3: Reliance on external bodies to deliver changes	6.5	6.9	7.6	6.5	6.9	7.7	7.1	8.1	9.3	7.4
E5: Collaborative land management	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.1
Evolvability	19.9	20.6	22.6	19.9	20.7	22.7	21.2	24.3	27.6	22.2
E1: Scaleability and modularity of proposed changes	8.9	9.6	10.7	8.9	9.7	10.8	9.9	11.5	13.1	10.4

8.2 Best Value Plan (excluding import of water via sea tankers)

Table 152: Cost breakdown for Best Value Plan (excluding import of water via sea tankers) using the Social Time Preference Rate (STPR) discounting method.

Cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Capex	2,978	2,277	1,930	2,777	2,227	1,832	2,505	2,104	1,714	2,261	(£m)
Fixed opex	2,992	2,895	2,848	2,952	2,882	2,829	2,915	2,855	2,800	2,885	(£m)
Fixed operational carbon	472	472	472	472	472	472	472	472	472	472	(£m)
Embedded carbon	199	146	127	182	141	119	166	135	115	148	(£m)
Variable opex	587	319	149	531	312	139	422	236	112	312	(£m)
Variable carbon opex	48	25	12	43	24	11	33	18	9	25	(£m)

Table 153: Cost breakdown by option category for Best Value Plan (excluding import of water via sea tankers) using the Social Time Preference Rate (STPR) discounting method.

Option category cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Catchment management	0	0	0	0	0	0	0	0	0	0	(£m)
Demand drought intervention	0	0	0	0	0	0	0	0	0	0	(£m)
Demand management	251	251	251	251	251	251	251	251	251	251	(£m)
Desalination	1,397	674	173	1,236	709	139	869	529	4	637	(£m)
Direct river abstraction	0	0	0	0	0	0	0	0	0	0	(£m)
Existing WAFU	0	0	0	0	0	0	0	0	0	0	(£m)
Groundwater	37	36	35	37	36	35	30	18	16	31	(£m)
Infrastructure	387	342	339	382	342	339	375	340	339	354	(£m)
Leakage reduction	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	(£m)
Other	20	20	19	20	20	18	20	20	17	19	(£m)
Reservoir	129	4	4	111	1	1	104	1	1	39	(£m)
Reuse	1,126	1,033	1,005	1,027	930	902	997	916	889	980	(£m)
Supply drought intervention	113	103	103	103	103	103	101	91	91	101	(£m)

Option category cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Tankering	0	0	0	0	0	0	0	0	0	0	(£m)
Trading	0	0	0	0	0	0	0	0	0	0	(£m)
Transfer	1,090	950	888	1,062	945	893	1,041	933	894	966	(£m)
Transfers into region	59	53	54	58	53	53	58	54	54	55	(£m)

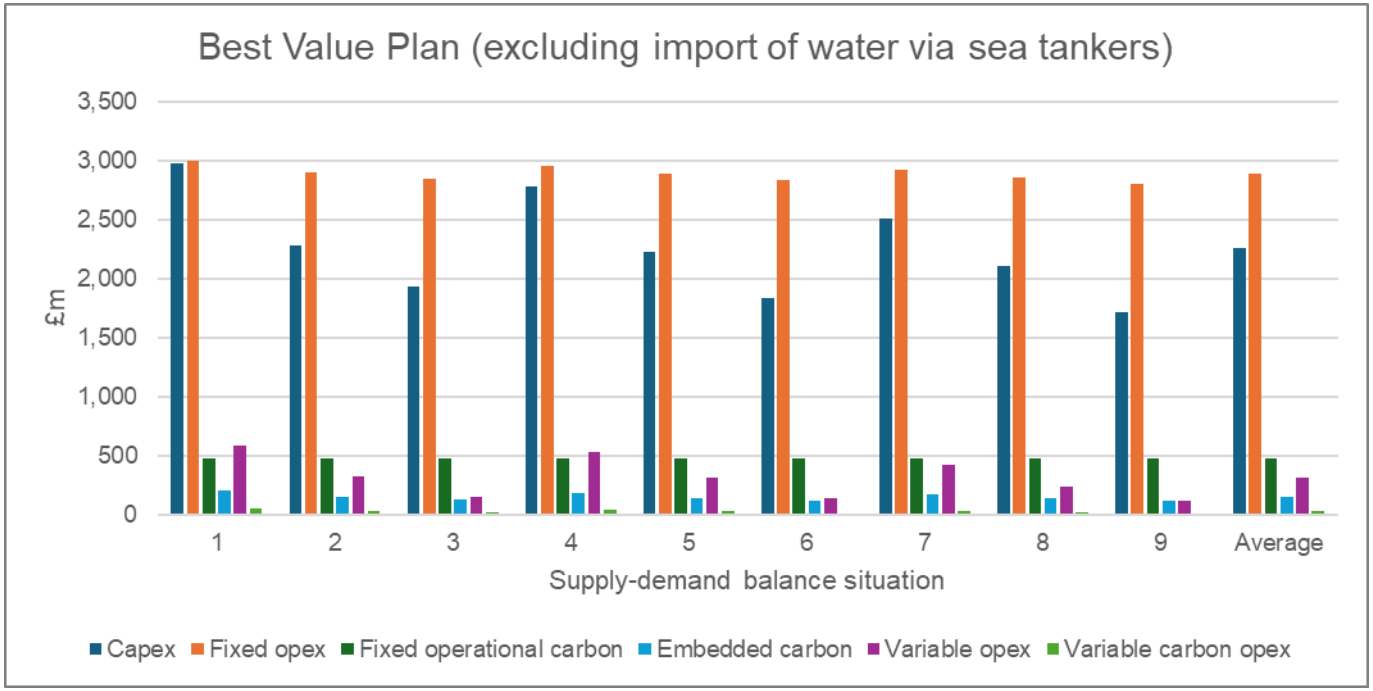

Figure 146: Cost breakdown for the Best Value Plan (excluding import of water via sea tankers) using the STPR discounting method for each supply-demand balance situation as well as the average across all situations.

Table 154: Emissions breakdown for Best Value Plan (excluding import of water via sea tankers).

Emissions breakdown	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Capital emissions	1,261,487	906,918	779,854	1,150,732	869,346	723,500	1,045,373	832,495	700,682	918,932	(tonnes)
Operational emissions	2,980,001	2,848,928	2,781,751	2,951,738	2,846,866	2,777,618	2,897,591	2,816,764	2,770,999	2,852,473	(tonnes)

Table 155: Electricity emissions breakdown for Best Value Plan (excluding import of water via sea tankers).

Electricity breakdown	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Generated (on site)	0	0	0	0	0	0	0	0	0	0	(GWh)
Grid	19,689	10,343	3,799	17,397	10,196	3,402	12,937	7,413	2,600	9,753	(GWh)
Renewable	0	0	0	0	0	0	0	0	0	0	(GWh)

Table 156: Environmental metrics score for Best Value Plan (excluding import of water via sea tankers) aggregated at the regional level.

Environmental	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
SEA environmental benefit	66,520	64,564	64,430	67,176	64,592	64,104	66,223	64,113	64,078	65,089
SEA environmental disbenefit	104,397	76,996	72,487	96,496	77,019	70,572	84,804	68,756	62,441	79,330
Natural capital	81,459,138	80,482,059	80,668,826	80,469,501	80,618,611	80,968,675	81,006,305	80,889,248	81,161,493	80,858,206
Bio-diversity net gain	-196,278	-136,881	-118,518	-195,763	-142,584	-115,441	-149,619	-121,796	-91,360	-140,916

Table 157: Societal metrics score for Best Value Plan (excluding import of water via sea tankers) aggregated at the regional level.

Social	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
Customer preference	35,759	34,010	33,783	35,517	34,036	33,576	34,327	33,370	32,955	34,148

Table 158: Resilience metrics score for Best Value Plan (excluding import of water via sea tankers) aggregated at the regional level.

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
Reliability	30.1	30.6	33.4	29.8	30.7	33.6	32.3	35.6	39.8	32.9
R1: Uncertainty of option supply/demand benefit	6.3	6.0	6.5	6.1	6.0	6.5	6.4	6.9	7.8	6.5
R3: Risk of service failure due to other physical hazards	7.1	7.6	8.5	7.2	7.6	8.5	8.0	9.0	10.3	8.2
R4: Availability of additional headroom	6.6	7.0	7.2	6.7	7.0	7.2	7.3	7.7	7.9	7.2
R5: Catchment/raw water quality risks (incl. climate change)	4.1	4.2	4.7	3.8	4.2	4.8	4.4	5.0	5.8	4.6
R6: Capacity of catchment services	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1
R7: Risk of service failure to other exceptional events	5.5	5.9	6.6	5.6	5.9	6.6	6.1	7.0	8.0	6.4
R8: Soil health	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Reliability	**Supply-demand situation**									**Average**
Metric	1	2	3	4	5	6	7	8	9	
Adaptability	14.6	16.1	18.1	14.7	16.1	17.7	16.6	18.9	21.5	17.2
A3: Operational complexity and flexibility	6.8	7.5	8.4	7.0	7.5	8.4	7.8	8.9	10.3	8.1
A4: WRZ connectivity	7.7	8.7	9.7	7.6	8.6	9.3	8.8	10.0	11.2	9.1
A7: Customer relations support engagement with demand management	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
R5: Catchment/raw water quality risks (incl. climate change)	14.6	16.1	18.1	14.7	16.1	17.7	16.6	18.9	21.5	17.2
Reliability	**Supply-demand situation**									**Average**
Metric	1	2	3	4	5	6	7	8	9	
Evolvability	19.9	20.6	22.6	19.9	20.7	22.7	21.5	24.1	27.4	22.2
E1: Scaleability and modularity of proposed changes	8.9	9.6	10.7	8.9	9.7	10.8	10.0	11.4	13.0	10.4
E2: Intervention lead times	4.1	4.1	4.3	4.0	4.1	4.3	4.3	4.6	5.1	4.3
E3: Reliance on external bodies to deliver changes	6.5	6.9	7.6	6.5	6.9	7.7	7.2	8.1	9.3	7.4
E5: Collaborative land management	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.1
Evolvability	19.9	20.6	22.6	19.9	20.7	22.7	21.5	24.1	27.4	22.2
E1: Scaleability and modularity of proposed changes	8.9	9.6	10.7	8.9	9.7	10.8	10.0	11.4	13.0	10.4

8.3 Least Cost Plan (including import of water via sea tankers)

Table 159: Cost breakdown for Least Cost Plan using the Social Time Preference Rate (STPR) discounting method.

Cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Capex	2,950	2,271	1,886	2,726	2,230	1,834	2,328	2,094	1,699	2,224	(£m)
Fixed opex	2,978	2,892	2,842	2,950	2,882	2,829	2,884	2,855	2,800	2,879	(£m)
Fixed operational carbon	472	472	472	472	472	472	472	472	472	472	(£m)
Embedded carbon	199	148	126	179	143	121	157	136	115	147	(£m)
Variable opex	669	405	229	617	395	221	512	320	194	396	(£m)
Variable carbon opex	47	25	11	44	24	11	33	18	9	25	(£m)

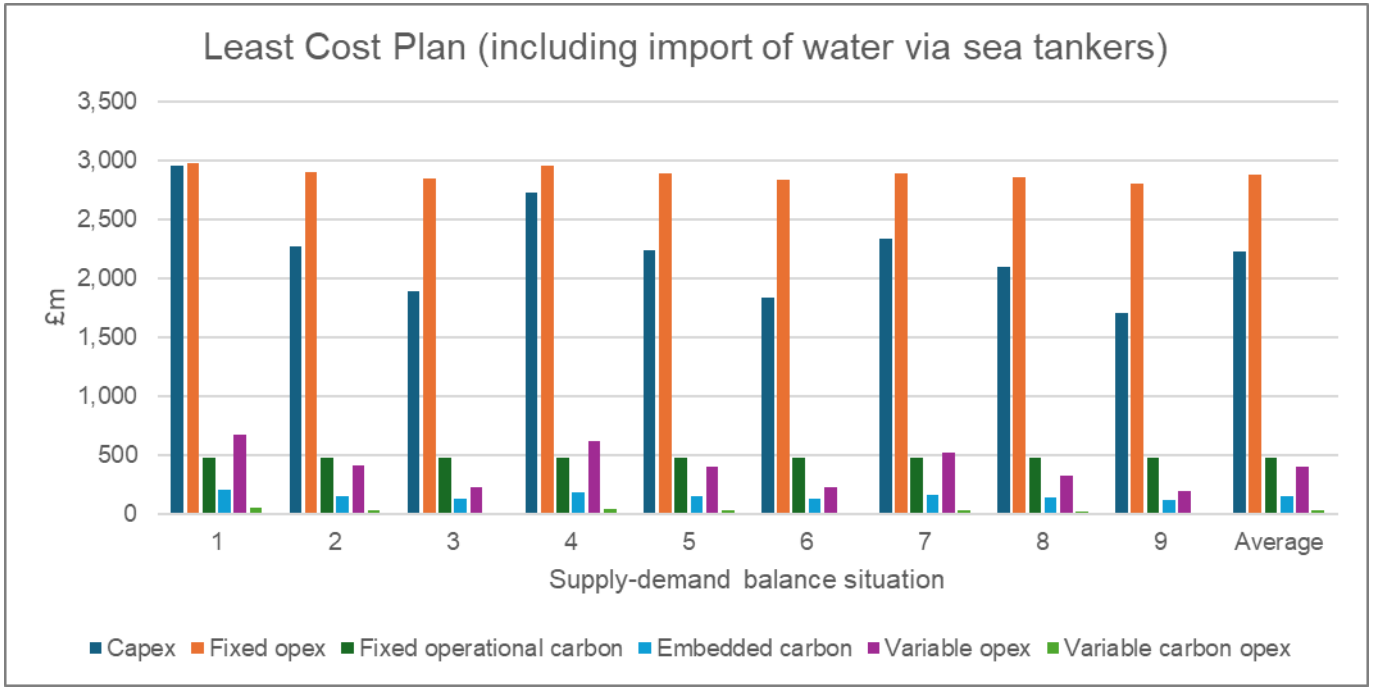

Figure 147: Cost breakdown for the Least Cost Plan (including import of water via sea tankers) using the STPR discounting method for each supply-demand balance situation as well as the average across all situations.

Table 160: Cost breakdown by option category for Least Cost Plan (including import of water via sea tankers) using the Social Time Preference Rate (STPR) discounting method.

Option category cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Catchment management	0	0	0	0	0	0	0	0	0	0	(£m)
Demand drought intervention	0	0	0	0	0	0	0	0	0	0	(£m)
Demand management	251	251	251	251	251	251	251	251	251	251	(£m)
Desalination	1,334	674	133	1,132	710	139	632	530	4	587	(£m)

Option category cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Direct river abstraction	0	0	0	0	0	0	0	0	0	0	(£m)
Existing WAFU	0	0	0	0	0	0	0	0	0	0	(£m)
Groundwater	37	36	35	38	36	35	29	18	16	31	(£m)
Infrastructure	387	343	339	384	343	339	376	340	339	354	(£m)
Leakage reduction	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	(£m)
Other	20	20	19	20	20	18	20	20	17	19	(£m)
Reservoir	136	13	4	115	1	1	90	1	1	40	(£m)
Reuse	1,126	1,016	987	1,071	930	902	1,017	917	889	984	(£m)
Supply drought intervention	102	102	102	102	102	102	90	90	90	98	(£m)
Tankering	87	87	87	87	87	87	87	87	87	87	(£m)
Trading	0	0	0	0	0	0	0	0	0	0	(£m)
Transfer	1,109	951	888	1,060	946	894	1,071	920	875	968	(£m)
Transfers into region	59	53	54	58	53	53	58	54	54	55	(£m)

Table 161: Emissions breakdown for Least Cost Plan (including import of water via sea tankers).

Emissions breakdown	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Capital emissions	1,266,006	915,004	766,268	1,129,629	880,349	734,503	989,197	836,831	699,801	913,065	(tonnes)
Operational emissions	2,979,062	2,852,177	2,780,679	2,958,019	2,848,168	2,777,707	2,904,043	2,818,362	2,770,975	2,854,355	(tonnes)

Table 162: Electricity emissions breakdown for Least Cost Plan (including import of water via sea tankers).

Electricity breakdown	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Generated (on site)	0	0	0	0	0	0	0	0	0	0	(GWh)
Grid	19,625	10,611	3,694	17,386	10,263	3,409	12,558	7,500	2,595	9,738	(GWh)
Renewable	0	0	0	0	0	0	0	0	0	0	(GWh)

Table 163: Environmental metrics score for Least Cost Plan (including import of water via sea tankers) aggregated at the regional level.

Environmental	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
SEA environmental benefit	69,344.0	63,942.0	63,129.0	67,320.0	63,618.0	62,740.0	63,957.0	61,621.0	60,603.0	64,030.4
SEA environmental disbenefit	113,93500	82,789.0	76,750.0	101,155.0	80,433.0	74,098.0	84,687.0	71,099.0	63,870.0	83,201.8
Natural capital	80,962,381.0	76,512,884.9	79,357,304.8	74,638,485.5	76,454,271. 9	79,162,627.0	80,289,634.0	81,159,954.3	83,925,469.7	79,162,557.0
Bio-diversity net gain	-212,985.0	-147,659.0	-121,063.0	-199,940.0	-147,436.0	-123,069.0	-118,240.0	-90,091.0	-57,521.0	-135,333.78

Table 164: Societal metrics score for Least Cost Plan (including import of water via sea tankers) aggregated at the regional level.

Social	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
Customer preference	34058.0	31939.0	31611.0	33237.0	31784.0	31374.0	31862.0	30940.0	30525.00	31,925.6

Table 165: Resilience metrics score for Least Cost Plan (including import of water via sea tankers) aggregated at the regional level.

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
Reliability	29.5	30.1	33.0	28.9	30.3	33.1	29.3	32.5	36.2	31.4
R1: Uncertainty of option supply/demand benefit	6.3	5.7	6.3	5.9	5.8	6.3	5.7	6.2	6.9	6.1

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
R3: Risk of service failure due to other physical hazards	7.1	7.5	8.4	7.1	7.5	8.4	7.2	8.2	9.4	7.9
R4: Availability of additional headroom	6.6	6.9	7.1	6.7	7.0	7.2	7.1	7.5	7.7	7.1
R5: Catchment/raw water quality risks (incl. climate change)	4.1	4.2	4.8	3.9	4.3	4.8	3.9	4.5	5.3	4.4
R6: Capacity of catchment services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R7: Risk of service failure to other exceptional events	5.4	5.7	6.4	5.5	5.8	6.5	5.4	6.1	7.0	6.0
R8: Soil health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Reliability	**Supply-demand situation**									**Average**
Metric	1	2	3	4	5	6	7	8	9	
Adaptability	14.4	16.0	18.0	14.5	16.1	17.9	15.8	18.0	20.5	16.8
A3: Operational complexity and flexibility	6.8	7.4	8.3	6.9	7.4	8.3	7.0	8.1	9.3	7.7
A4: WRZ connectivity	7.6	8.6	9.7	7.6	8.6	9.5	8.8	9.9	11.1	9.0
A7: Customer relations support engagement with demand management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R5: Catchment/raw water quality risks (incl. climate change)	4.1	4.2	4.8	3.9	4.3	4.8	3.9	4.5	5.3	4.4
Reliability	**Supply-demand situation**									**Average**
Metric	1	2	3	4	5	6	7	8	9	
Evolvability	19.5	20.3	22.6	19.1	20.4	22.5	20.7	23.5	26.7	21.7
E1: Scaleability and modularity of proposed changes	9.0	9.5	10.7	8.9	9.6	10.7	9.9	11.4	13.0	10.3
E2: Intervention lead times	4.1	4.0	4.4	3.8	4.0	4.2	3.9	4.3	4.8	4.2
E3: Reliance on external bodies to deliver changes	6.5	6.7	7.5	6.4	6.8	7.6	6.9	7.8	9.0	7.2
E5: Collaborative land management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Evolvability	19.5	20.3	22.6	19.1	20.4	22.5	20.7	23.5	26.7	21.7
E1: Scaleability and modularity of proposed changes	9.0	9.5	10.7	8.9	9.6	10.7	9.9	11.4	13.0	10.3

8.4 Least Cost Plan (excluding import of water via sea tankers)

Table 166: Cost breakdown for Least Cost Plan (excluding import of water via sea tankers) using the Social Time Preference Rate (STPR) discounting method.

Cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Capex	2,959	2,268	1,884	2,723	2,227	1,832	2,325	2,090	1,696	2,223	(£m)
Fixed opex	2,979	2,892	2,842	2,950	2,882	2,829	2,884	2,855	2,800	2,879	(£m)
Fixed operational carbon	472	472	472	472	472	472	472	472	472	472	(£m)
Embedded carbon	196	146	124	177	141	119	156	134	113	145	(£m)
Variable opex	591	323	148	536	314	140	431	239	112	315	(£m)
Variable carbon opex	48	25	11	44	25	11	33	18	9	25	(£m)

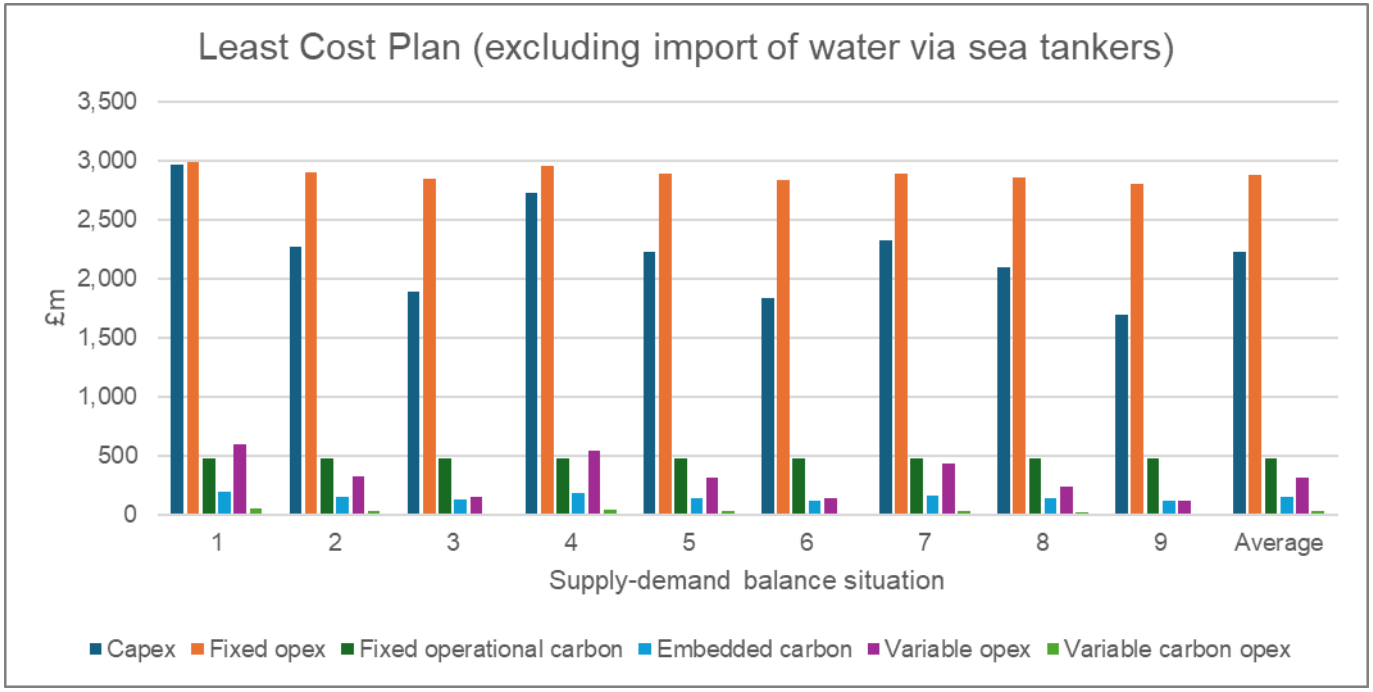

Figure 148: Cost breakdown for the Least Cost Plan (excluding import of water via sea tankers) using the STPR discounting method for each supply-demand balance situation as well as the average across all situations.

Table 167: Cost breakdown by option category for Least Cost Plan (excluding import of water via sea tankers) using the Social Time Preference Rate (STPR) discounting method.

Option category cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Catchment management	0	0	0	0	0	0	0	0	0	0	(£m)
Demand drought intervention	0	0	0	0	0	0	0	0	0	0	(£m)
Demand management	251	251	251	251	251	251	251	251	251	251	(£m)
Desalination	1,371	677	137	1,131	710	139	632	530	4	592	(£m)
Direct river abstraction	0	0	0	0	0	0	0	0	0	0	(£m)

Option category cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Existing WAFU	0	0	0	0	0	0	0	0	0	0	(£m)
Groundwater	37	36	35	38	36	35	29	18	16	31	(£m)
Infrastructure	387	343	339	384	343	339	376	340	339	354	(£m)
Leakage reduction	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	(£m)
Other	20	20	19	20	20	18	20	20	17	19	(£m)
Reservoir	115	9	1	115	1	1	90	0	0	37	(£m)
Reuse	1,126	1,016	987	1,071	930	902	1,017	917	889	984	(£m)
Supply drought intervention	103	103	103	103	103	103	91	91	91	99	(£m)
Tankering	0	0	0	0	0	0	0	0	0	0	(£m)
Trading	0	0	0	0	0	0	0	0	0	0	(£m)
Transfer	1,109	951	888	1,061	946	894	1,071	920	875	968	(£m)
Transfers into region	59	53	54	58	53	53	58	54	54	55	(£m)

Table 168: Emissions breakdown for Least Cost Plan (excluding import of water via sea tankers).

Emissions breakdown	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Capital emissions	1,250,302	904,001	755,265	1,118,626	869,346	723,500	978,193	825,828	688,798	901,540	(tonnes)
Operational emissions	2,979,924	2,852,172	2,780,674	2,958,123	2,848,163	2,777,702	2,904,038	2,818,357	2,770,970	2,854,458	(tonnes)

Table 169: Electricity emissions breakdown for Least Cost Plan (excluding import of water via sea tankers).

Electricity breakdown	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Generated (on site)	0	0	0	0	0	0	0	0	0	0	(GWh)
Grid	19,731	10,616	3,700	17,383	10,268	3,414	12,564	7,506	2,601	9,754	(GWh)
Renewable	0	0	0	0	0	0	0	0	0	0	(GWh)

Table 170: Environmental metrics score for Least Cost Plan (excluding import of water via sea tankers) aggregated at the regional level.

Environmental	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
SEA environmental benefit	68,776	63,390	62,577	66,768	63,066	62,188	63,405	61,069	60,051	63,477
SEA environmental disbenefit	112,127	80,949	74,910	99,315	78,593	72,258	82,847	69,259	62,030	81,365
Natural capital	81,050,536	76,538,618	79,383,039	74,664,219	76,480,006	79,188,361	80,315,369	81,185,688	83,951,204	79,195,227
Bio-diversity net gain	-212,503	-146,509	-119,913	-198,790	-146,286	-121,919	-117,090	-88,941	-56,371	-134,258

Table 171: Societal metrics score for Least Cost Plan (excluding import of water via sea tankers) aggregated at the regional level.

Social	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
Customer preference	34,012	31,893	31,565	33,191	31,738	31,328	31,816	30,894	30,479	31,880

Table 172: Resilience metrics score for Least Cost Plan (excluding import of water via sea tankers) aggregated at the regional level.

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
Reliability	29.5	30.1	33.0	28.9	30.3	33.1	29.2	32.5	36.2	31.4
R1: Uncertainty of option supply/demand benefit	6.3	5.7	6.3	5.9	5.8	6.3	5.7	6.2	6.9	6.1
R3: Risk of service failure due to other physical hazards	7.1	7.5	8.4	7.1	7.5	8.4	7.2	8.2	9.4	7.9
R4: Availability of additional headroom	6.6	6.9	7.1	6.6	7.0	7.2	7.1	7.5	7.7	7.1
R5: Catchment/raw water quality risks (incl. climate change)	4.1	4.2	4.8	3.9	4.3	4.8	3.9	4.5	5.3	4.4
R6: Capacity of catchment services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R7: Risk of service failure to other exceptional events	5.4	5.7	6.4	5.5	5.8	6.5	5.4	6.1	7.0	6.0
R8: Soil health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Reliability	**Supply-demand situation**									**Average**
Metric	1	2	3	4	5	6	7	8	9	
Adaptability	14.3	16.0	18.0	14.5	16.1	17.9	15.8	18.0	20.5	16.8
A3: Operational complexity and flexibility	6.8	7.4	8.3	6.9	7.4	8.3	7.0	8.1	9.3	7.7
A4: WRZ connectivity	7.6	8.6	9.7	7.6	8.6	9.5	8.8	9.9	11.1	9.0

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
A7: Customer relations support engagement with demand management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R5: Catchment/raw water quality risks (incl. climate change)	14.3	16.0	18.0	14.5	16.1	17.9	15.8	18.0	20.5	16.8
Reliability	**Supply-demand situation**									**Average**
Metric	1	2	3	4	5	6	7	8	9	
Evolvability	19.5	20.3	22.6	19.1	20.4	22.5	20.6	23.5	26.7	21.7
E1: Scaleability and modularity of proposed changes	9.0	9.5	10.7	8.9	9.6	10.7	9.9	11.4	13.0	10.3
E2: Intervention lead times	4.1	4.0	4.4	3.8	4.0	4.2	3.9	4.3	4.8	4.2
E3: Reliance on external bodies to deliver changes	6.5	6.7	7.5	6.4	6.8	7.6	6.9	7.8	9.0	7.2
E5: Collaborative land management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Evolvability	19.5	20.3	22.6	19.1	20.4	22.5	20.6	23.5	26.7	21.7
E1: Scaleability and modularity of proposed changes	9.0	9.5	10.7	8.9	9.6	10.7	9.9	11.4	13.0	10.3

8.5 ENVSOC Plan (including import of water via sea tankers)

Table 173: Cost breakdown for ENVSOC Plan (including import of water via sea tankers) using the Social Time Preference Rate (STPR) discounting method.

Cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Capex	2,972	2,277	1,937	2,794	2,243	1,834	2,363	2,140	1,702	2,251	(£m)
Fixed opex	2,980	2,893	2,850	2,954	2,884	2,829	2,886	2,859	2,800	2,882	(£m)
Fixed operational carbon	472	472	472	472	472	472	472	472	472	472	(£m)
Embedded carbon	199	152	132	182	147	121	151	142	115	149	(£m)
Variable opex	677	397	232	623	390	221	524	318	193	397	(£m)
Variable carbon opex	49	27	12	44	26	11	34	19	9	26	(£m)

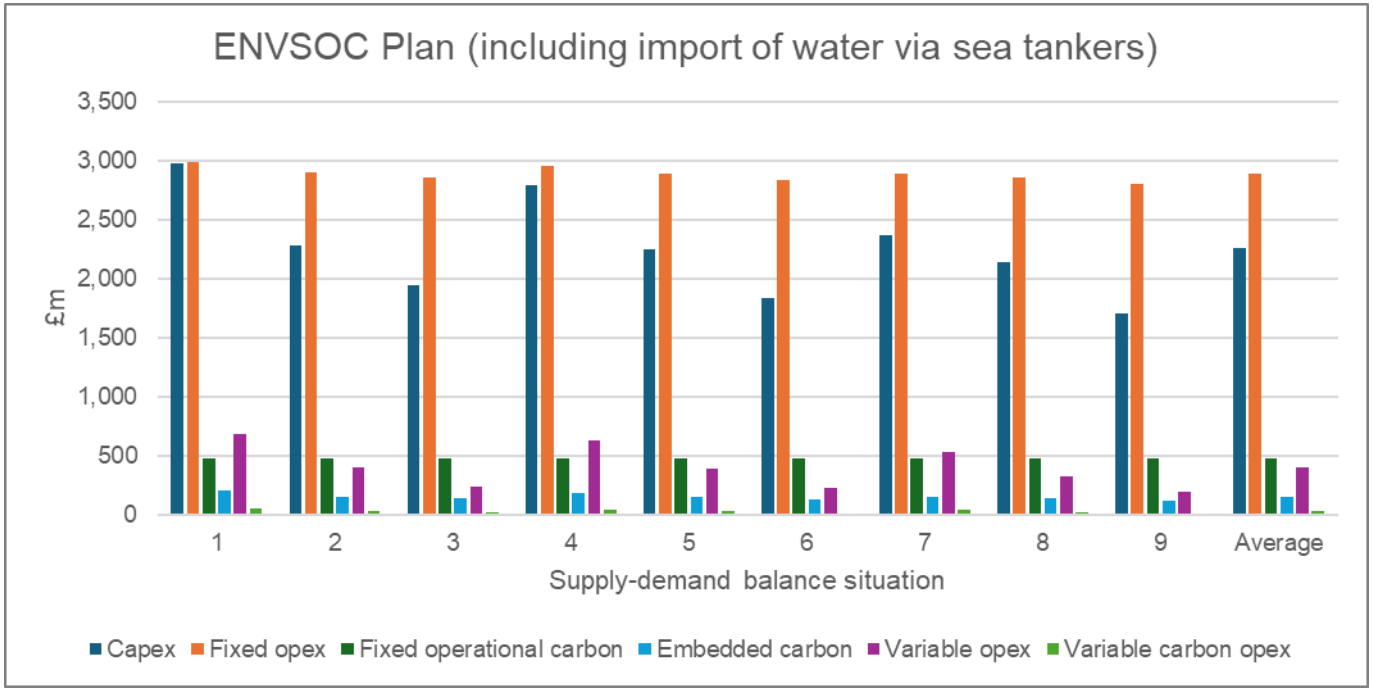

Figure 149: Cost breakdown for the ENVSOC Plan (including import of water via sea tankers) using the STPR discounting method for each supply-demand balance situation as well as the average across all situations.

Table 174: Cost breakdown by option category for ENVSOC Plan (including import of water via sea tankers) using the Social Time Preference Rate (STPR) discounting method.

Option category cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Catchment management	0	0	0	0	0	0	0	0	0	0	(£m)
Demand drought intervention	0	0	0	0	0	0	0	0	0	0	(£m)
Demand management	251	251	251	251	251	251	251	251	251	251	(£m)
Desalination	1,451	719	216	1,304	745	139	763	587	8	659	(£m)

Option category cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Direct river abstraction	0	0	0	0	0	0	0	0	0	0	(£m)
Existing WAFU	0	0	0	0	0	0	0	0	0	0	(£m)
Groundwater	37	36	34	37	36	35	29	18	16	31	(£m)
Infrastructure	374	342	339	383	342	339	376	340	339	352	(£m)
Leakage reduction	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	(£m)
Other	20	20	19	20	20	18	20	20	17	19	(£m)
Reservoir	114	1	1	51	0	0	0	0	0	18	(£m)
Reuse	1,101	1,015	986	1,040	930	902	1,020	916	889	978	(£m)
Supply drought intervention	102	102	102	102	102	102	90	90	90	98	(£m)
Tankering	87	87	87	87	87	87	87	87	87	87	(£m)
Trading	0	0	0	0	0	0	0	0	0	0	(£m)
Transfer	1,086	923	880	1,068	927	893	1,070	919	875	960	(£m)
Transfers into region	59	53	54	58	53	53	58	54	54	55	(£m)

Table 175: Emissions breakdown for ENVSOC Plan (including import of water via sea tankers).

Emissions breakdown	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Capital emissions	1,264,851	940,239	804,372	1,155,376	905,977	734,503	945,881	880,103	699,801	925,678	(tonnes)
Operational emissions	2,984,855	2,858,812	2,784,656	2,960,109	2,854,479	2,777,622	2,909,059	2,821,270	2,771,004	2,857,985	(tonnes)

Table 176: Electricity emissions breakdown for ENVSOC Plan (including import of water via sea tankers).

Electricity breakdown	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Generated (on site)	0	0	0	0	0	0	0	0	0	0	(GWh)
Grid	20,063	11,141	4,109	18,072	10,760	3,397	13,113	7,863	2,594	10,124	(GWh)
Renewable	0	0	0	0	0	0	0	0	0	0	(GWh)

Table 177: Environmental metrics score for ENVSOC Plan (including import of water via sea tankers) aggregated at the regional level.

Environmental	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
SEA environmental benefit	66,538	64,961	64,888	67,886	65,209	64,861	66,659	64,747	64,776	65,614
SEA environmental disbenefit	105,364	77,909	74,432	98,421	77,930	72,535	84,492	70,718	63,951	80,639
Natural capital	81,460,094	80,646,131	80,729,711	80,778,812	80,720,999	80,942,941	81,532,633	80,905,402	81,136,187	80,983,657
Bio-diversity net gain	-196,036	-121,287	-107,465	-192,314	-134,534	-116,591	-149,402	-113,125	-88,697	-135,495

Table 178: Societal metrics score for ENVSOC Plan (including import of water via sea tankers) aggregated at the regional level.

Social	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
Customer preference	36,465	34,868	34,663	36,424	34,914	34,528	35,242	34,444	34,042	35,066

Table 179: Resilience metrics score for ENVSOC Plan (including import of water via sea tankers) aggregated at the regional level.

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
Reliability	30.1	30.6	33.4	29.8	30.7	33.6	31.9	35.8	40.0	32.9
R1: Uncertainty of option supply/demand benefit	6.3	6.0	6.5	6.1	6.0	6.5	6.3	7.1	7.8	6.5
R3: Risk of service failure due to other physical hazards	7.1	7.6	8.4	7.1	7.6	8.5	7.9	9.0	10.4	8.2
R4: Availability of additional headroom	6.6	7.0	7.2	6.7	7.0	7.2	7.3	7.7	7.9	7.2
R5: Catchment/raw water quality risks (incl. climate change)	4.1	4.2	4.7	3.8	4.2	4.8	4.3	5.0	5.8	4.6
R6: Capacity of catchment services	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1
R7: Risk of service failure to other exceptional events	5.5	5.9	6.6	5.6	5.9	6.6	6.1	7.0	8.1	6.4
R8: Soil health	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Reliability	**Supply-demand situation**									**Average**
Metric	1	2	3	4	5	6	7	8	9	
Adaptability	14.6	16.0	18.0	14.7	16.1	17.7	16.5	18.9	21.5	17.1
A3: Operational complexity and flexibility	6.8	7.5	8.4	6.9	7.5	8.4	7.7	9.0	10.3	8.1
A4: WRZ connectivity	7.7	8.6	9.6	7.6	8.6	9.3	8.8	9.9	11.1	9.0

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
A7: Customer relations support engagement with demand management	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
R5: Catchment/raw water quality risks (incl. climate change)	14.6	16.0	18.0	14.7	16.1	17.7	16.5	18.9	21.5	17.1
Reliability	**Supply-demand situation**									**Average**
Metric	1	2	3	4	5	6	7	8	9	
Evolvability	19.9	20.5	22.6	19.9	20.6	22.7	21.3	24.3	27.6	22.2
E1: Scaleability and modularity of proposed changes	8.9	9.6	10.7	9.0	9.7	10.8	10.0	11.5	13.1	10.4
E2: Intervention lead times	4.1	4.0	4.3	4.0	4.1	4.3	4.2	4.7	5.2	4.3
E3: Reliance on external bodies to deliver changes	6.5	6.8	7.6	6.5	6.9	7.7	7.1	8.2	9.3	7.4
E5: Collaborative land management	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.1
Evolvability	19.9	20.5	22.6	19.9	20.6	22.7	21.3	24.3	27.6	22.2
E1: Scaleability and modularity of proposed changes	8.9	9.6	10.7	9.0	9.7	10.8	10.0	11.5	13.1	10.4

8.6 RESIL Plan (including import of water via sea tankers)

Table 180: Cost breakdown for RESIL Plan (including import of water via sea tankers) using the Social Time Preference Rate (STPR) discounting method.

Cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Capex	2,989	2,262	1,916	2,758	2,234	1,836	2,442	2,061	1,674	2,241	(£m)
Fixed opex	2,987	2,892	2,844	2,954	2,883	2,829	2,898	2,844	2,789	2,880	(£m)
Fixed operational carbon	472	472	472	472	472	472	472	472	472	472	(£m)
Embedded carbon	196	147	126	184	143	121	160	134	114	147	(£m)
Variable opex	676	401	230	613	393	221	513	315	192	395	(£m)
Variable carbon opex	49	25	12	43	24	11	34	18	9	25	(£m)

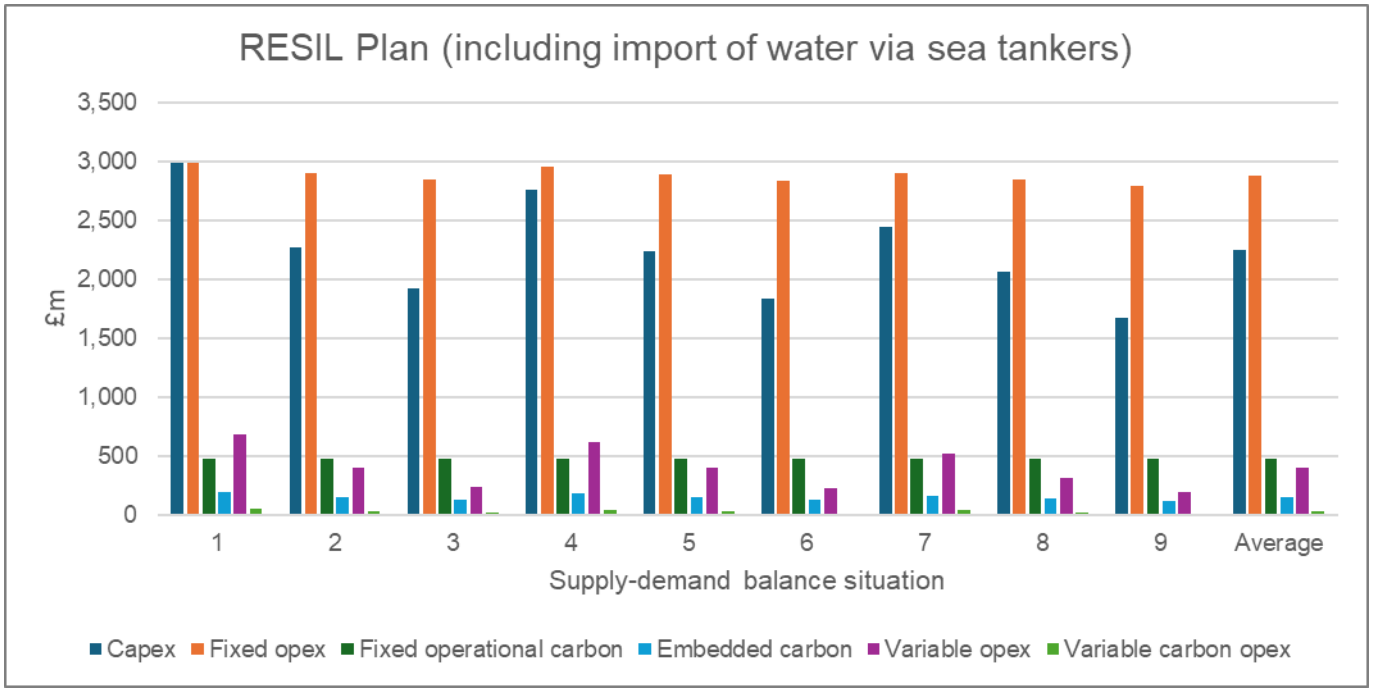

Figure 150: Cost breakdown for the RESIL Plan (including import of water via sea tankers) using the STPR discounting method for each supply-demand balance situation as well as the average across all situations.

Table 181: Cost breakdown by option category for RESIL Plan (including import of water via sea tankers) using the Social Time Preference Rate (STPR) discounting method.

Option category cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Catchment management	0	0	0	0	0	0	0	0	0	0	(£m)
Demand drought intervention	0	0	0	0	0	0	0	0	0	0	(£m)
Demand management	251	251	251	251	251	251	251	251	251	251	(£m)
Desalination	1,448	681	165	1,153	712	139	781	529	7	624	(£m)
Direct river abstraction	0	0	0	0	0	0	0	0	0	0	(£m)

Option category cost breakdown (STPR)	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Existing WAFU	0	0	0	0	0	0	0	0	0	0	(£m)
Groundwater	37	36	35	37	36	35	30	18	16	31	(£m)
Infrastructure	385	342	339	383	342	339	377	339	339	354	(£m)
Leakage reduction	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	2,669	(£m)
Other	20	20	19	20	20	18	20	20	17	19	(£m)
Reservoir	111	1	13	106	1	1	101	0	0	37	(£m)
Reuse	1,113	1,017	989	1,080	931	903	1,003	864	837	971	(£m)
Supply drought intervention	102	102	102	102	102	102	90	90	90	98	(£m)
Tankering	87	87	87	87	87	87	87	87	87	87	(£m)
Trading	0	0	0	0	0	0	0	0	0	0	(£m)
Transfer	1,088	942	880	1,077	945	893	1,054	925	886	966	(£m)
Transfers into region	59	53	54	58	53	53	58	54	54	55	(£m)

Table 182: Emissions breakdown for RESIL Plan (including import of water via sea tankers).

Emissions breakdown	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Capital emissions	1,246,956	913,867	770,972	1,161,472	883,993	734,503	1,005,376	825,364	694,015	915,169	(tonnes)
Operational emissions	2,985,096	2,848,919	2,781,370	2,954,121	2,846,888	2,777,630	2,907,666	2,816,564	2,771,217	2,854,386	(tonnes)

Table 183: Electricity emissions breakdown for RESIL Plan (including import of water via sea tankers).

Electricity breakdown	Supply-demand situation									Average	Units
Metric	1	2	3	4	5	6	7	8	9		
Generated (on site)	0	0	0	0	0	0	0	0	0	0	(GWh)
Grid	19,864	10,334	3,756	17,156	10,187	3,397	12,869	7,418	2,599	9,731	(GWh)
Renewable	0	0	0	0	0	0	0	0	0	0	(GWh)

Table 184: Environmental metrics score for RESIL Plan (including import of water via sea tankers) aggregated at the regional level.

Environmental	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
SEA environmental benefit	67,128	64,979	64,926	67,821	65,131	64,659	66,422	64,324	64,289	65,614
SEA environmental disbenefit	107,740	78,491	74,925	98,097	78,701	72,625	86,569	70,491	64,176	80,639
Natural capital	81,396,779	80,495,885	80,484,630	80,449,255	80,590,603	80,942,941	80,870,343	80,863,514	81,135,759	80,983,657
Bio-diversity net gain	-207,807	-134,233	-125,711	-196,146	-143,830	-116,591	-157,599	-122,946	-92,510	-135,495

Table 185: Societal metrics score for RESIL Plan (including import of water via sea tankers) aggregated at the regional level.

Social	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
Customer preference	35,791	34,017	33,816	35,534	34,043	33,583	34,322	33,377	32,962	34,161

Table 186: Resilience metrics score for RESIL Plan (including import of water via sea tankers) aggregated at the regional level.

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
Reliability	30.0	30.6	33.4	29.8	30.7	33.6	31.8	35.2	39.4	32.7
R1: Uncertainty of option supply/demand benefit	6.3	6.0	6.5	6.1	6.0	6.5	6.3	6.8	7.6	6.5
R3: Risk of service failure due to other physical hazards	7.1	7.6	8.5	7.2	7.6	8.5	7.8	8.9	10.1	8.1
R4: Availability of additional headroom	6.6	7.0	7.2	6.7	7.0	7.2	7.3	7.6	7.9	7.2
R5: Catchment/raw water quality risks (incl. climate change)	4.1	4.2	4.7	3.8	4.2	4.8	4.3	5.0	5.8	4.5
R6: Capacity of catchment services	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1
R7: Risk of service failure to other exceptional events	5.5	5.9	6.6	5.6	5.9	6.6	6.1	6.9	8.0	6.3
R8: Soil health	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Reliability	**Supply-demand situation**									**Average**
Metric	1	2	3	4	5	6	7	8	9	
Adaptability	14.6	16.1	18.0	14.7	16.1	17.7	16.3	18.6	21.2	17.0
A3: Operational complexity and flexibility	6.8	7.5	8.4	7.0	7.5	8.4	7.6	8.7	10.0	8.0
A4: WRZ connectivity	7.7	8.6	9.6	7.7	8.6	9.3	8.7	9.9	11.1	9.0

Reliability	Supply-demand situation									Average
Metric	1	2	3	4	5	6	7	8	9	
A7: Customer relations support engagement with demand management	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
R5: Catchment/raw water quality risks (incl. climate change)	14.6	16.1	18.0	14.7	16.1	17.7	16.3	18.6	21.2	17.0
Reliability	**Supply-demand situation**									**Average**
Metric	1	2	3	4	5	6	7	8	9	
Evolvability	19.9	20.6	22.6	19.9	20.7	22.7	21.4	24.1	27.4	22.1
E1: Scaleability and modularity of proposed changes	8.9	9.6	10.7	8.9	9.7	10.8	10.0	11.4	13.0	10.3
E2: Intervention lead times	4.1	4.1	4.3	4.0	4.1	4.3	4.3	4.6	5.2	4.3
E3: Reliance on external bodies to deliver changes	6.5	6.8	7.6	6.5	6.9	7.7	7.1	8.0	9.2	7.4
E5: Collaborative land management	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.1
Evolvability	19.9	20.6	22.6	19.9	20.7	22.7	21.4	24.1	27.4	22.1
E1: Scaleability and modularity of proposed changes	8.9	9.6	10.7	8.9	9.7	10.8	10.0	11.4	13.0	10.3