

Draft Water Resources Management Plan 2024 Annex 21: Modelling Results

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from
**Southern
Water** 

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Glossary




Water Resource Zones (WRZs)

HAZ	Hampshire Andover
HKZ	Hampshire Kingsclere
HWZ	Hampshire Winchester
HRZ	Hampshire Rural
HSE	Hampshire Southampton East
HSW	Hampshire Southampton West
IOW	Isle of Wight
SNZ	Sussex North
SWZ	Sussex Worthing
SBZ	Sussex Brighton
KME	Kent Medway East
KMW	Kent Medway West
KTZ	Kent Thanet
SHZ	Sussex Hastings

Other

S1	Situation 1
S2	Situation 2
S3	Situation 3
S4	Situation 4
S5	Situation 5
S6	Situation 6
S7	Situation 7
S8	Situation 8
S9	Situation 9

Key

	Selected under all planning scenarios		Not selected under all planning scenarios		Not selected under any planning scenario
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Modelling Name	File name
Preferred Best Value Plan	Annual_profiles_20220805_02_16.05_v37_SESRO100_BVP_01_00.xlsx
Best Value Plan optimised on environmental and social metrics	Annual_profiles_20220805_02_16.05_v37_SESRO100_ENVSOC_01_00.xlsx
Best Value Plan optimised on resilience	Annual_profiles_20220805_02_16.05_v37_SESRO100_RESIL_01_00.xlsx
Least cost plan with no option to recharge Havant Thicket Reservoir with recycled water	Annual_profiles_20220805_02_16.05_v37_NoBuddsFarmRecharge.xlsx
Main least-cost plan	Annual_profiles_20220805_02_16.05_v37_LCP.xlsx
Least-cost plan with the use of drought permits and orders limited to 2036	Annual_profiles_20220805_02_16.05_v37_2037RESIL_LCP.xlsx
Least-cost plan with the use of drought permits and orders extended to 2052	Annual_profiles_20220805_02_16.05_v37_2052RESIL_LCP.xlsx

1. Investment modelling results

1.1. Preferred Best Value Plan

1.1.1 Western area Preferred Best Value Plan

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Export (HSE): Budds Farm to Havant Thicket Reservoir	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (HSE): Export to Esso	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (HSE): Otterbourne to PWC Gater's Mill	2049	□	x	x	□	x	x	□	x	x
Export (T2S): Sparsholt to TWUL KVZ	2040	x	x	x	□	x	x	□	x	x
Groundwater (HKZ): East Woodhay (1.3MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (HRZ): Timsbury (4.8MI/d)	2032	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (HSW): Testwood MAR (5.5MI/d)	2041	✓	✓	✓	✓	✓	✓	✓	✓	x
Groundwater (IOW): Knighton LGS (1.9MI/d)	2035	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (IOW): Lessland Lane (1.5MI/d)	2040	□	□	□	□	□	□	□	□	x
Import (HSE): PWC Gater's Mill to Moore Hill (24MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSE): PWC Gater's Mill to Otterbourne (21MI/d)	2030	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSE): PWC Havant Thicket (90MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSW): T2S Culham - potable	2040	✓	x	x	✓	✓	x	✓	x	x
Recycling (HSE): Budds Farm to Havant Thicket (60MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (HSE): Woolston	2059	x	✓	x	x	x	x	x	x	x
Recycling (IOW): Sandown (8.1MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annual_profiles_20220805_02_16.05_v37_SESRO100_BVP_01_00.xlsx

1.1.2 Central area Preferred Best Value Plan

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Desalination (SBZ): Sussex Coast	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Desalination (SWZ): Tidal River Arun	2062	☐	x	x	x	x	x	x	x	x
Export (SNZ): SEW Weir Wood - potable (5MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (SNZ): Turners Hill to SES Outwood	2040	☐	x	x	x	x	x	x	x	x
Groundwater (SNZ): Hardham winter transfer stage 1 (2MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (SNZ): Haslingbourne (4MI/d)	2044	y	y	y	x	y	x	y	y	y
Import (SNZ): Havant Thicket to Hardham	2040	✓	✓	✓	✓	✓	✓	✓	✓	☐
Import (SNZ): PWC to Hardham (15MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SNZ): SES Outwood to Turner's Hill	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SNZ): SEW Tilmore (RZ5) to Hardham	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (SNZ): Ford with direct river discharge (15MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (SNZ): Horsham with Church Farm discharge (6.8MI/d)	2055	x	☐	x	x	x	x	x	x	x
Storage (SNZ): Blackstone reservoir (19.5MI/d)	2045	✓	✓	x	✓	x	x	✓	x	x
Storage (SNZ): Western Rother licence change and farm storage (2MI/d)	2040	☐	☐	x	☐	☐	x	☐	☐	☐

Annual_profiles_20220805_02_16.05_v37_SESRO100_BVP_01_00.xlsx

1.1.3 Eastern area Preferred Best Value Plan

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Desalination (KME): Isle of Sheppey	2049	✓	✓	✗	✓	✓	✗	✗	✗	✗
Desalination (KMW): Thames Estuary	2040	✓	✓	✓	✓	✓	✓	✓	✓	✗
Desalination (KTZ): East Thanet	2041	✓	✓	✗	✓	✓	✗	✓	✓	✗
Export (KME): SEW Matts Hill - potable (7.4MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KMW): SEW Darwell replacement from Bewl - raw (8MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KMW): SEW Pitfield - potable (1MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KTZ): Deal	2040	✓	✗	✗	✓	✗	✗	✓	✗	✗
Export (KTZ): Deal to SEW RZ7	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KTZ): Wingham to SEW Canterbury (Broad Oak - RZ8)	2050	✓	□	□	y	□	□	□	□	□
Export (SHZ): Brede to SEW Kingsnorth (RZ8)	2050	□	✗	□	□	✗	✗	□	✗	✗
Groundwater (KME): Windmill Hill (2.7MI/d)	2040	✓	□	✓	□	□	✓	□	□	□
Groundwater (SHZ): Brede Wells (1.5MI/d)	2041	✓	□	✓	□	□	✓	□	□	✗
Import (KTZ): AFW at Napchester (0.1MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (KTZ): SEW Canterbury (Broad Oak - RZ8) to Wingham	2050	□	□	□	□	□	□	□	□	□
Import (KTZ): SEW Kingston to SWS Wingham (2MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SHZ): SEW Kingsnorth (RZ8) to Brede - potable	2051	✗	□	□	✗	✗	□	□	✗	✗
Recycling (KME): Sittingbourne industrial reuse (7.5MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (KMW): Aylesford to Eccles Lake (12.8MI/d)	2031	□	□	✓	□	□	✓	□	□	□
Recycling (SHZ): Bexhill & Hastings to Darwell	2046	□	✗	✗	□	✗	✗	□	✗	✗
Recycling (SHZ): Tunbridge Wells with Bewl (3.6MI/d)	2046	✗	✗	✗	□	✗	□	✗	□	✗
Storage (SHZ): Raising Bewl 0.4m (3MI/d)	2042	✗	□	□	✗	□	✗	✗	✗	✗

Annual_profiles_20220805_02_16.05_v37_SESRO100_BVP_01_00.xlsx

1.2 Sensitivity run Best Value Plan optimised on environmental and social metrics

1.2.1 Western Area Best Value Plan optimised on environmental and social metrics

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Export (HSE): Budds Farm to Havant Thicket	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (HSE): Export to Esso	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (HSE): Otterbourne to PWC Gater's Mill	2049	□	x	x	□	x	x	□	x	x
Export (T2S): Sparsholt to TWUL KVZ	2040	x	x	x	□	x	x	x	x	x
Groundwater (HKZ): East Woodhay (1.3MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (HRZ): Timsbury (4.8MI/d)	2032	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (HSW): Testwood MAR (5.5MI/d)	2049	✓	✓	✓	✓	✓	✓	✓	✓	x
Groundwater (IOW): Knighton LGS (1.9MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (IOW): Lessland Lane (1.5MI/d)	2040	□	□	□	□	□	□	□	□	x
Import (HSE): PWC Gater's Mill to Moore Hill (24MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSE): PWC Gater's Mill to Otterbourne (21MI/d)	2030	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSE): PWC Havant Thicket (90MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSW): T2S Culham - potable	2040	✓	x	x	✓	✓	x	✓	x	x
Recycling (HSE): Budds Farm to Havant Thicket (60MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (HSE): Woolston	2067	x	y	x	x	x	x	x	x	x
Recycling (IOW): Sandown (8.1MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annual_profiles_20220805_02_16.05_v37_SESRO100_ENVSOC_01_00.xlsx

1.2.2 Central Area Best Value Plan optimised on environmental and social metrics

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Desalination (SBZ): Sussex Coast	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Desalination (SWZ): Tidal River Arun	2060	✓	✓	✗	✗	✗	✗	✗	✗	✗
Export (SNZ): SEW Weir Wood - potable (5MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (SNZ): Turners Hill to SES Outwood	2042	□	✗	✗	✗	✗	✗	□	✗	✗
Groundwater (SNZ): Hardham winter transfer stage 1 (2MI/d)	2031	□	□	□	□	□	□	□	□	□
Groundwater (SNZ): Haslingbourne (4MI/d)	2042	✓	✓	✓	✓	✓	✓	✓	✓	□
Import (SBZ): SEW Barcombe to Balsdean		✗	✗	✗	✗	✗	✗	✗	✗	✗
Import (SNZ): Havant Thicket to Hardham	2041	✓	✓	✓	✓	✓	✓	✓	✓	□
Import (SNZ): PWC to Hardham (15MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SNZ): SES Outwood to Turner's Hill	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SNZ): SEW Tilmore (RZ5) to Hardham	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (SNZ): Ford with direct river discharge (15MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (SNZ): Horsham with Church Farm discharge (6.8MI/d)		✗	✗	✗	✗	✗	✗	✗	✗	✗
Storage (SNZ): Blackstone reservoir (19.5MI/d)	2045	✓	✓	✗	✓	✗	✗	✓	✗	✗
Storage (SNZ): Western Rother licence change and farm storage (2MI/d)	2040	□	□	□	□	□	□	□	□	□

Annual_profiles_20220805_02_16.05_v37_SESRO100_ENVSOC_01_00.xlsx

1.2.3 Eastern Area Best Value Plan optimised on environmental and social metrics

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Desalination (KME): Isle of Sheppey	2049	✓	✓	✗	✓	✓	✗	✗	✗	✗
Desalination (KMW): Thames Estuary	2040	✓	✓	✓	✓	✓	✓	✓	✓	✗
Desalination (KTZ): East Thanet	2041	✓	✓	✗	✓	✓	✗	✓	✓	✗
Export (KME): SEW Matts Hill - potable (7.4MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KMW): SEW Darwell replacement from Bewl - raw (8MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KMW): SEW Pitfield - potable (1MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KTZ): Deal	2040	✓	✗	✗	✓	✗	✗	✓	✗	✗
Export (KTZ): Deal to SEW RZ7	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KTZ): Wingham to SEW Canterbury (Broad Oak - RZ8)	2050	✓	□	□	□	□	□	□	✗	□
Export (SHZ): Brede to SEW Kingsnorth (RZ8)	2050	□	□	✗	□	□	✗	□	✗	✗
Groundwater (KME): Windmill Hill (2.7MI/d)	2040	✓	□	✓	□	□	✓	□	□	□
Groundwater (SHZ): Brede Wells (1.5MI/d)	2041	✓	□	✓	□	□	✓	□	□	✗
Import (KTZ): AFW at Napchester (0.1MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (KTZ): SEW Canterbury (Broad Oak - RZ8) to Wingham	2050	□	□	□	□	□	□	□	□	□
Import (KTZ): SEW Kingston to SWS Wingham (2MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SHZ): SEW Kingsnorth (RZ8) to Brede - potable	2070	✗	✗	□	✗	✗	✗	✗	✗	✗
Recycling (KME): Sittingbourne industrial reuse (7.5MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (KMW): Aylesford to Eccles Lake (12.8MI/d)	2031	□	□	✓	□	□	✓	□	□	□
Recycling (SHZ): Bexhill & Hastings to Darwell	2046	□	□	✗	□	□	✗	□	✗	✗
Recycling (SHZ): Tunbridge Wells with Bewl (3.6MI/d)	2059	✗	✗	✗	✗	✗	□	✗	✗	✗
Storage (SHZ): Raising Bewl 0.4m (3MI/d)	2042	✗	✗	□	✗	✗	□	✗	✗	✗

Annual_profiles_20220805_02_16.05_v37_SESRO100_ENVSOC_01_00.xlsx

1.3 Sensitivity run Best Value Plan optimised on resilience

1.3.1 Western area results Best Value Plan optimised on resilience

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Export (HSE): Budds Farm to Havant Thicket	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (HSE): Export to Esso	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (HSE): Otterbourne to PWC Gater's Mill	2049	☐	✗	✗	☐	✗	✗	☐	✗	✗
Export (T2S): Sparsholt to TWUL KVZ	2040	✗	✗	✗	☐	✗	✗	✗	✗	✗
Groundwater (HKZ): East Woodhay (1.3MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (HRZ): Timsbury (4.8MI/d)	2032	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (HSW): Testwood MAR (5.5MI/d)	2041	✓	✓	✓	✓	✓	✓	✓	✓	✗
Groundwater (IOW): Knighton LGS (1.9MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (IOW): Lessland Lane (1.5MI/d)	2040	☐	☐	☐	☐	☐	☐	☐	☐	✗
Import (HSE): PWC Gater's Mill to Moore Hill (24MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSE): PWC Gater's Mill to Otterbourne (21MI/d)	2030	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSE): PWC Havant Thicket (90MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSW): T2S Culham - potable	2040	✓	✗	✗	✓	✓	✗	✓	✗	✗
Recycling (HSE): Budds Farm to Havant Thicket (45MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (HSE): Woolston	2067	✗	✓	✗	✗	✗	✗	✗	✗	✗
Recycling (IOW): Sandown (8.1MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annual_profiles_20220805_02_16.05_v37_SESRO100_RESIL_01_00.xlsx

1.3.2 Central area results Best Value Plan optimised on resilience

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Desalination (SBZ): Sussex Coast	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Desalination (SWZ): Tidal River Arun	2050	✓	✓	✗	✗	✗	✗	✗	✗	✗
Export (SNZ): SEW Weir Wood - potable (5MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (SNZ): Turners Hill to SES Outwood		✗	✗	✗	✗	✗	✗	✗	✗	✗
Groundwater (SNZ): Hardham winter transfer stage 1 (2MI/d)	2031	□	□	□	□	□	□	□	□	□
Groundwater (SNZ): Haslingbourne (4MI/d)	2040	✓	✓	✓	✓	✓	✓	✓	✓	□
Import (SBZ): SEW Barcombe to Balsdean		✗	✗	✗	✗	✗	✗	✗	✗	✗
Import (SNZ): Havant Thicket to Hardham	2041	✓	✓	✓	✓	□	✓	✓	✓	□
Import (SNZ): PWC to Hardham (15MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SNZ): SES Outwood to Turner's Hill	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SNZ): SEW Tilmore (RZ5) to Hardham	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (SNZ): Ford with direct river discharge (15MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (SNZ): Horsham with Church Farm discharge (6.8MI/d)	2060	✗	✗	✗	✗	✗	✗	□	□	✗
Storage (SNZ): Blackstone reservoir (19.5MI/d)	2042	✓	✓	✗	✓	✓	✗	✓	✓	✗
Storage (SNZ): Western Rother licence change and farm storage (2MI/d)	2040	□	□	□	□	□	□	□	□	□

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1.3.3 Eastern area results Best Value Plan optimised on resilience

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Desalination (KME): Isle of Sheppey	2046	✓	✗	✓	✓	✓	✗	✗	✗	✗
Desalination (KMW): Thames Estuary	2040	✓	✓	✗	✓	✓	✓	✓	✓	✗
Desalination (KTZ): East Thanet	2041	✓	✓	✗	✓	✓	✗	✓	✓	✗
Export (KME): SEW Matts Hill - potable (7.4MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KMW): SEW Darwell replacement from Bewl - raw (8MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KMW): SEW Pitfield - potable (1MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KTZ): Deal	2040	✓	✗	✗	✓	✗	✗	✓	✗	✗
Export (KTZ): Deal to SEW RZ7	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KTZ): Wingham to SEW Canterbury (Broad Oak - RZ8)	2050	✓	□	□	✓	□	□	□	✗	□
Export (SHZ): Brede to SEW Kingsnorth (RZ8)	2051	□	□	✗	□	□	✗	□	✗	✗
Groundwater (KME): Windmill Hill (2.7MI/d)	2040	✓	□	✓	□	□	✓	□	□	□
Groundwater (SHZ): Brede Wells (1.5MI/d)	2041	✓	□	✓	□	□	✓	□	□	✗
Import (KTZ): AFW at Napchester (0.1MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (KTZ): SEW Canterbury (Broad Oak - RZ8) to Wingham	2050	□	□	□	□	□	□	□	□	□
Import (KTZ): SEW Kingston to SWS Wingham (2MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SHZ): SEW Kingsnorth (RZ8) to Brede - potable	2070	✗	✗	□	✗	✗	□	✗	✗	✗
Recycling (KME): Sittingbourne industrial reuse (7.5MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (KMW): Aylesford to Eccles Lake (12.8MI/d)	2031	□	□	✓	□	□	✓	□	□	□
Recycling (SHZ): Bexhill & Hastings to Darwell	2041	□	□	✗	□	□	✗	□	✗	✗
Recycling (SHZ): Tunbridge Wells with Bewl (3.6MI/d)		✗	✗	✗	✗	✗	✗	✗	✗	✗
Storage (SHZ): Raising Bewl 0.4m (3MI/d)	2042	□	□	□	□	□	□	✗	✗	✗

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1.4 Sensitivity run least cost plan with no option to recharge Havant Thicket Reservoir with recycled water

1.4.1 Western area results least cost plan with no option to recharge Havant Thicket Reservoir with recycled water

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Export (HSE): Export to Esso	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (HSE): Havant Thicket-Otterbourne (61MI/d)	2074	✗	✗	✓	✗	✗	✓	✗	✗	✗
Export (HSE): Otterbourne to PWC Gater's Mill	2042	□	□	✗	□	✗	✗	□	✗	✗
Export (T2S): Sparsholt to TWUL KVZ	2040	✗	✗	✗	□	✗	✗	□	✗	✗
Groundwater (HKZ): East Woodhay (1.3MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (HRZ): Timsbury (4.8MI/d)	2032	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (HSW): Testwood MAR (5.5MI/d)	2041	✓	✓	✓	✓	✓	✓	✓	✓	✗
Groundwater (IOW): Knighton LGS (1.9MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (IOW): Lessland Lane (1.5MI/d)	2040	□	✗	✗	□	✗	✗	□	✗	✗
Import (HSE): PWC Gater's Mill to Moore Hill (24MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSE): PWC Gater's Mill to Otterbourne (21MI/d)	2030	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSE): PWC Havant Thicket (90MI/d)		✗	✗	✗	✗	✗	✗	✗	✗	✗
Import (HSW): T2S Culham - potable	2040	✓	✓	✗	✓	✓	✗	✓	✓	✗
Recycling (HSE): Budds Farm & Peel Common to Otterbourne via environmental buffer (75MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (HSE): Woolston	2042	✓	✗	✓	✗	✓	✓	✗	✗	✗
Recycling (IOW): Sandown (8.1MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓

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1.4.2 Central area results least cost plan with no option to recharge Havant Thicket Reservoir with recycled water

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Desalination (SBZ): Sussex Coast	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Desalination (SWZ): Tidal River Arun	2042	✓	✗	✗	✓	✓	✗	✓	✓	✗
Export (SNZ): SEW Weir Wood - potable (5MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (SNZ): Turners Hill to SES Outwood	2052*	✗	✗	✗	✗	✗	✗	□	✗	✗
Groundwater (SNZ): Hardham winter transfer stage 1 (2MI/d)	2031	□	□	□	□	□	□	□	□	□
Groundwater (SNZ): Haslingbourne (4MI/d)	2040	✓	✓	✓	✓	✓	✓	✓	✓	□
Import (SBZ): SEW Barcombe to Balsdean	2046	□	□	✗	□	✗	✗	✗	✗	✗
Import (SNZ): Havant Thicket to Hardham	2041	□	□	✗	□	✗	✗	□	✗	□
Import (SNZ): PWC to Hardham (15MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SNZ): SES Outwood to Turner's Hill	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SNZ): SEW Tilmore (RZ5) to Hardham	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (SNZ): Ford with direct river discharge (15MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (SNZ): Horsham with Church Farm discharge (6.8MI/d)	2048	□	□	□	□	□	□	✗	✗	✗
Storage (SNZ): Blackstone reservoir (19.5MI/d)	2041	✓	✓	✓	✓	✓	✓	✓	✓	✗
Storage (SNZ): Western Rother licence change and farm storage (2MI/d)	2041	□	□	✗	□	□	□	□	□	✗

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2052* Export (SNZ): Turners Hill to SES Outwood selected in 2052 , -0.53MI/d

1.4.3 Eastern area results least cost plan with no option to recharge Havant Thicket Reservoir with recycled water

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Desalination (KME): Isle of Sheppey	2051	✓	✗	✗	✓	✓	✗	✗	✗	✗
Desalination (KMW): Thames Estuary	2040	✓	✓	✓	✓	✓	✓	✓	✓	✗
Desalination (KTZ): East Thanet	2041	✓	✓	✗	✓	✓	✗	✓	✓	✗
Export (KME): SEW Matts Hill - potable (7.4MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KMW): SEW Darwell replacement from Bewl - raw (8MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KMW): SEW Pitfield - potable (1MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KTZ): Deal	2040	✓	✗	✗	✓	✗	✗	✓	✗	✗
Export (KTZ): Deal to SEW RZ7	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KTZ): Wingham to SEW Canterbury (Broad Oak - RZ8)	2050	✓	□	□	✓	□	□	□	✗	□
Export (SHZ): Brede to SEW Kingsnorth (RZ8)	2050	□	✗	✗	□	□	✗	□	✗	✗
Groundwater (KME): Windmill Hill (2.7MI/d)	2040	□	□	□	□	□	□	□	□	□
Groundwater (SHZ): Brede Wells (1.5MI/d)	2041	□	□	□	□	□	□	□	□	✗
Import (KTZ): AFW at Napchester (0.1MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (KTZ): SEW Canterbury (Broad Oak - RZ8) to Wingham	2050	□	□	□	□	□	□	□	□	✗
Import (KTZ): SEW Kingston to SWS Wingham (2MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SHZ): SEW Kingsnorth (RZ8) to Brede - potable	2065	✗	✗	□	✗	✗	□	✗	✗	✗
Recycling (KME): Sittingbourne industrial reuse (7.5MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (KMW): Aylesford to Eccles Lake (12.8MI/d)	2031	□	□	□	□	□	□	□	□	□
Recycling (SHZ): Bexhill & Hastings to Darwell	2046	□	✗	✗	□	□	✗	□	✗	✗
Recycling (SHZ): Tonbridge to Bewl (5.7MI/d)	2057	✗	□	✗	✗	✗	✗	✗	✗	✗
Recycling (SHZ): Tunbridge Wells with Bewl (3.6MI/d)	2041	✗	✗	□	✗	✗	✗	✗	□	✗
Storage (SHZ): Raising Bewl 0.4m (3MI/d)	2042	□	✗	□	□	✗	✗	✗	✗	✗

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1.5 Sensitivity run main least-cost plan

1.5.1 Western area results main least-cost plan

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Export (HSE): Budds Farm to Havant Thicket	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (HSE): Export to Esso	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (HSE): Otterbourne to PWC Gater's Mill	2049	☐	✗	✗	☐	✗	✗	☐	✗	✗
Export (T2S): Sparsholt to TWUL KVZ	2040	✗	✗	✗	☐	✗	✗	✗	✗	✗
Groundwater (HKZ): East Woodhay (1.3MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (HRZ): Timsbury (4.8MI/d)	2032	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (HSW): Testwood MAR (5.5MI/d)	2041	✓	✓	✓	✓	✓	✓	✓	✓	✗
Groundwater (IOW): Knighton LGS (1.9MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (IOW): Lessland Lane (1.5MI/d)	2040	☐	☐	☐	☐	☐	☐	☐	☐	✗
Import (HSE): PWC Gater's Mill to Moore Hill (24MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSE): PWC Gater's Mill to Otterbourne (21MI/d)	2030	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSE): PWC Havant Thicket (90MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSW): T2S Culham - potable	2040	✓	✓	✗	✓	✓	✗	✓	✗	✗
Recycling (HSE): Budds Farm to Havant Thicket (45MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (HSE): Woolston	2062	✗	✗	✗	✗	✗	✗	✗	✓	✗
Recycling (IOW): Sandown (8.1MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓

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1.5.2 Central area results main least-cost plan

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Desalination (SBZ): Sussex Coast	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Desalination (SWZ): Tidal River Arun	2053	✓	✗	✗	✗	✗	✗	✗	✗	✗
Export (SNZ): SEW Weir Wood - potable (5MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (SNZ): Turners Hill to SES Outwood	2042	☐	✗	✗	✗	✗	✗	✗	✗	✗
Groundwater (SNZ): Hardham winter transfer stage 1 (2MI/d)	2031	☐	☐	☐	☐	☐	☐	☐	☐	☐
Groundwater (SNZ): Haslingbourne (4MI/d)	2040	✓	✓	✗	✓	✓	✓	✓	✓	✓
Import (SBZ): SEW Barcombe to Balsdean	2063	✗	✗	✗	☐	✗	✗	✗	✗	✗
Import (SNZ): Havant Thicket to Hardham	2040	☐	☐	✓	☐	✓	☐	☐	☐	☐
Import (SNZ): PWC to Hardham (15MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SNZ): SES Outwood to Turner's Hill	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SNZ): SEW Tilmore (RZ5) to Hardham	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (SNZ): Ford with direct river discharge (15MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (SNZ): Horsham with Church Farm discharge (6.8MI/d)		✗	✗	✗	✗	✗	✗	✗	✗	✗
Storage (SNZ): Blackstone reservoir (19.5MI/d)	2042	✓	✓	✗	☐	✗	✗	✓	✓	✗
Storage (SNZ): Western Rother licence change and farm storage (2MI/d)	2040	☐	☐	☐	☐	☐	☐	☐	☐	☐

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1.5.3 Eastern area results main least-cost plan

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Desalination (KME): Isle of Sheppey	2051	✓	✗	✗	✓	✗	✗	✗	✗	✗
Desalination (KMW): Thames Estuary	2040	✓	✓	✓	✓	✓	✓	✓	✓	✗
Desalination (KTZ): East Thanet	2041	✓	✓	✗	✓	✓	✗	✓	✓	✗
Export (KMW): SEW Darwell replacement from Bewl - raw (8MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KMW): SEW Pitfield - potable (1MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KTZ): Deal	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KTZ): Deal to SEW RZ7	2040	✓	✗	✗	✓	✗	✗	✓	✗	✗
Export (KTZ): Wingham to SEW Canterbury (Broad Oak - RZ8)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (SHZ): Brede to SEW Kingsnorth (RZ8)	2050	✓	□	□	□	□	□	□	✗	□
Groundwater (KME): Windmill Hill (2.7MI/d)	2040	□	□	✓	□	□	✓	□	□	□
Groundwater (SHZ): Brede Wells (1.5MI/d)	2041	□	□	✓	□	□	✓	□	□	✗
Import (KTZ): AFW at Napchester (0.1MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (KTZ): SEW Canterbury (Broad Oak - RZ8) to Wingham	2050	□	□	□	□	□	□	□	□	□
Import (KTZ): SEW Kingston to SWS Wingham (2MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SHZ): SEW Kingsnorth (RZ8) to Brede - potable	2070	✗	✗	✓	✗	✗	✓	✗	✗	✗
Recycling (KME): Sittingbourne industrial reuse (7.5MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (KMW): Aylesford to Eccles Lake (12.8MI/d)	2031	□	□	✓	□	□	✓	□	□	□
Recycling (SHZ): Ashford to Bewl (11.8MI/d)	2061	✗	✗	✗	□	✗	✗	✗	✗	✗
Recycling (SHZ): Bexhill & Hastings to Darwell	2046	□	✗	✗	□	✗	✗	□	✗	✗
Storage (SHZ): Raising Bewl 0.4m (3MI/d)	2042	□	□	□	□	□	□	✗	✗	✗

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1.6 Sensitivity run least-cost plan with the use of drought permits and orders limited to 2036

1.6.1 Western area results least-cost plan with the use of drought permits and orders limited to 2036

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Export (HSE): Budds Farm to Havant Thicket	2037	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (HSE): Export to Esso	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (HSE): Otterbourne to PWC Gater's Mill	2049	☐	✗	✗	☐	✗	✗	☐	✗	✗
Export (T2S): Sparsholt to TWUL KVZ	2040	✗	✗	✗	☐	✗	✗	☐	✗	✗
Groundwater (HKZ): East Woodhay (1.3MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (HRZ): Timsbury (4.8MI/d)	2036	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (HSW): Testwood MAR (5.5MI/d)	2036	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (IOW): Knighton LGS (1.9MI/d)	2036	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (IOW): Lessland Lane (1.5MI/d)	2040	☐	☐	☐	☐	☐	☐	☐	☐	✗
Import (HSE): PWC Gater's Mill to Moore Hill (24MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSE): PWC Gater's Mill to Otterbourne (21MI/d)	2030	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSE): PWC Havant Thicket (90MI/d)	2036	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSW): T2S Culham - potable	2040	✓	✓	✗	✓	✗	✗	✓	✗	✗
Recycling (HSE): Budds Farm to Havant Thicket (45MI/d)	2037	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (HSE): Woolston	2067	✗	✗	✗	✗	✓	✗	✗	✗	✗
Recycling (IOW): Sandown (8.1MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓

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1.6.2 Central area results least-cost plan with the use of drought permits and orders limited to 2036

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Desalination (SBZ): Sussex Coast	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Desalination (SWZ): Tidal River Arun	2042	✓	✗	✗	✗	✓	✗	✗	✗	✗
Export (SNZ): SEW Weir Wood - potable (5MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (SNZ): Turners Hill to SES Outwood	2042	☐	✗	✗	✗	✗	✗	✗	✗	✗
Groundwater (SNZ): Hardham winter transfer stage 1 (2MI/d)	2031	☐	☐	☐	☐	☐	☐	☐	☐	☐
Groundwater (SNZ): Haslingbourne (4MI/d)	2041	✓	✓	✓	✓	✓	✗	✓	✓	✗
Import (SBZ): SEW Barcombe to Balsdean		✗	✗	✗	✗	✗	✗	✗	✗	✗
Import (SNZ): Havant Thicket to Hardham	2037	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SNZ): PWC to Hardham (15MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SNZ): SES Outwood to Turner's Hill	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SNZ): SEW Tilmore (RZ5) to Hardham	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (SNZ): Ford with direct river discharge (15MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (SNZ): Horsham with Church Farm discharge (6.8MI/d)	2060	✗	✗	✗	☐	✗	✗	✗	☐	✗
Storage (SNZ): Blackstone reservoir (19.5MI/d)	2046	✓	✗	✗	✓	✓	✗	✓	✓	✗
Storage (SNZ): Western Rother licence change and farm storage (2MI/d)	2040	☐	☐	✗	☐	☐	✗	☐	☐	✗

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1.6.3 Eastern area results least-cost plan with the use of drought permits and orders limited to 2036

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Desalination (KME): Isle of Sheppey	2051	✓	x	x	✓	✓	x	x	x	x
Desalination (KMW): Thames Estuary	2040	✓	✓	✓	✓	✓	✓	✓	✓	x
Desalination (KTZ): East Thanet	2041	✓	✓	x	✓	✓	x	✓	✓	x
Export (KME): SEW Matts Hill - potable (7.4MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KMW): SEW Darwell replacement from Bewl - raw (8MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KMW): SEW Pitfield - potable (1MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KTZ): Deal	2040	✓	x	x	✓	x	x	✓	x	x
Export (KTZ): Deal to SEW RZ7	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KTZ): Wingham to SEW Canterbury (Broad Oak - RZ8)	2050	✓	□	□	□	□	□	□	x	□
Export (SHZ): Brede to SEW Kingsnorth (RZ8)	2050	□	x	x	□	x	x	□	x	x
Groundwater (KME): Windmill Hill (2.7MI/d)	2037	□	□	✓	□	□	✓	□	□	□
Groundwater (SHZ): Brede Wells (1.5MI/d)	2040	✓	□	✓	□	□	✓	□	□	□
Import (KTZ): AFW at Napchester (0.1MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (KTZ): SEW Canterbury (Broad Oak - RZ8) to Wingham	2050	□	□	□	□	□	□	□	□	□
Import (KTZ): SEW Kingston to SWS Wingham (2MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SHZ): SEW Kingsnorth (RZ8) to Brede - potable	2070	x	x	□	x	x	□	x	□	x
Recycling (KME): Sittingbourne industrial reuse (7.5MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (KMW): Aylesford to Eccles Lake (12.8MI/d)	2031	□	□	✓	□	□	✓	□	□	□
Recycling (SHZ): Ashford to Bewl (11.8MI/d)		x	x	x	x	x	x	x	x	x
Recycling (SHZ): Bexhill & Hastings to Darwell	2046	□	x	x	□	□	x	□	x	x
Recycling (SHZ): Tunbridge Wells with Bewl (3.6MI/d)	2048	x	x	x	x	x	x	x	□	x
Storage (SHZ): Raising Bewl 0.4m (3MI/d)	2041	□	□	□	□	□	□	□	x	x

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1.7 Sensitivity run least-cost plan with the use of drought permits and orders extended to 2052

1.7.1 Western area results least-cost plan with the use of drought permits and orders extended to 2052

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Export (HSE): Budds Farm to Havant Thicket	2052	x	x	✓	x	x	✓	x	x	x
Export (HSE): Export to Esso	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (HSE): Otterbourne to PWC Gater's Mill	2049	□	x	x	□	x	x	□	x	x
Export (T2S): Sparsholt to TWUL KVZ		x	x	x	x	x	x	x	x	x
Groundwater (HKZ): East Woodhay (1.3MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (HRZ): Timsbury (4.8MI/d)	2037	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (HSW): Testwood MAR (5.5MI/d)	2041	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (IOW): Knighton LGS (1.9MI/d)	2040	✓	✓	✓	✓	✓	✓	✓	✓	✓
Groundwater (IOW): Lessland Lane (1.5MI/d)	2036	□	□	□	□	□	□	□	□	x
Import (HSE): PWC Gater's Mill to Moore Hill (24MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSE): PWC Gater's Mill to Otterbourne (21MI/d)	2030	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSE): PWC Havant Thicket (90MI/d)	2036	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (HSW): T2S Culham - potable	2046	✓	x	x	✓	x	x	✓	x	x
Recycling (HSE): Budds Farm to Havant Thicket (45MI/d)	2052	x	x	✓	x	x	✓	x	x	x
Recycling (HSE): Woolston	2059	x	✓	x	x	✓	x	x	x	x
Recycling (IOW): Sandown (8.1MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓

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1.7.2 Central area results least-cost plan with the use of drought permits and orders extended to 2052

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Export (SNZ): SEW Weir Wood - potable (5MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (SNZ): Turners Hill to SES Outwood	2041	□	✗	✗	✗	✗	✗	□	✗	✗
Groundwater (SNZ): Hardham winter transfer stage 1 (2MI/d)	2031	□	□	□	□	□	□	□	□	□
Groundwater (SNZ): Haslingbourne (4MI/d)	2045	✓	✓	✓	✓	✓	✓	✓	✓	✗
Import (SBZ): SEW Barcombe to Balsdean		✗	✗	✗	✗	✗	✗	✗	✗	✗
Import (SNZ): Havant Thicket to Hardham	2040	✓	□	✓	□	□	✓	□	✓	✓
Import (SNZ): PWC to Hardham (15MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SNZ): SES Outwood to Turner's Hill	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SNZ): SEW Tilmore (RZ5) to Hardham	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (SNZ): Ford with direct river discharge (15MI/d)	2028	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (SNZ): Horsham with Church Farm discharge (6.8MI/d)	2056	✗	□	✗	✗	✗	✗	✗	✗	✗
Storage (SNZ): Blackstone reservoir (19.5MI/d)	2046	✓	✓	✗	□	✓	✗	□	✗	✗
Storage (SNZ): Western Rother licence change and farm storage (2MI/d)	2040	□	□	□	□	□	□	□	□	✗

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1.7.3 Eastern area results least-cost plan with the use of drought permits and orders extended to 2052

Option	Earliest year selected	S1	S2	S3	S4	S5	S6	S7	S8	S9
Desalination (KME): Isle of Sheppey	2052	✓	✓	✗	✓	✓	✗	✗	✗	✗
Desalination (KMW): Thames Estuary	2040	✓	✓	✓	✓	✓	✓	✓	✓	✗
Desalination (KTZ): East Thanet	2041	✓	✓	✗	✓	✓	✗	✓	✓	✗
Export (KME): SEW Matts Hill - potable (7.4MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KMW): SEW Darwell replacement from Bewl - raw (8MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KMW): SEW Pitfield - potable (1MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KTZ): Deal	2040	✓	✗	✗	✓	✗	✗	✓	✗	✗
Export (KTZ): Deal to SEW RZ7	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Export (KTZ): Wingham to SEW Canterbury (Broad Oak - RZ8)	2050	✓	□	□	□	□	□	□	✗	□
Export (SHZ): Brede to SEW Kingsnorth (RZ8)	2051	□	□	□	□	□	✗	□	✗	✗
Groundwater (KME): Windmill Hill (2.7MI/d)	2040	✓	✓	✓	□	□	✓	□	□	□
Groundwater (SHZ): Brede Wells (1.5MI/d)	2041	✓	□	✓	□	□	✓	□	□	✗
Import (KTZ): AFW at Napchester (0.1MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (KTZ): SEW Canterbury (Broad Oak - RZ8) to Wingham	2050	□	□	□	□	□	□	□	□	✗
Import (KTZ): SEW Kingston to SWS Wingham (2MI/d)	2026	✓	✓	✓	✓	✓	✓	✓	✓	✓
Import (SHZ): SEW Kingsnorth (RZ8) to Brede - potable	2065	✗	✗	✗	✗	✗	✗	□	✗	✗
Recycling (KME): Sittingbourne industrial reuse (7.5MI/d)	2031	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recycling (KMW): Aylesford to Eccles Lake (12.8MI/d)	2031	□	□	✓	□	□	✓	□	□	□
Recycling (SHZ): Ashford to Bewl (11.8MI/d)		✗	✗	✗	✗	✗	✗	✗	✗	✗
Recycling (SHZ): Bexhill & Hastings to Darwell	2041	□	□	✓	□	□	✗	□	✗	✗
Recycling (SHZ): Tunbridge Wells with Bewl (3.6MI/d)	2041	✗	✗	✗	✗	✗	✗	✗	□	✗
Storage (SHZ): Raising Bewl 0.4m (3MI/d)	2052	✗	□	✗	□	✗	✗	✗	✗	✗

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