



Thames Water

North Wessex Downs AONB

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Thames Water

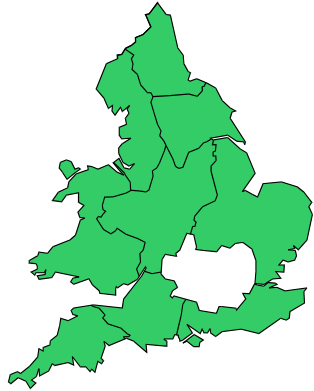
Introduction



Thames Water in the North Wessex Downs AONB

- Impact of Abstraction
- Future Plans for Water Resources
- Future Plans for Water Quality & Catchment Management
- Other

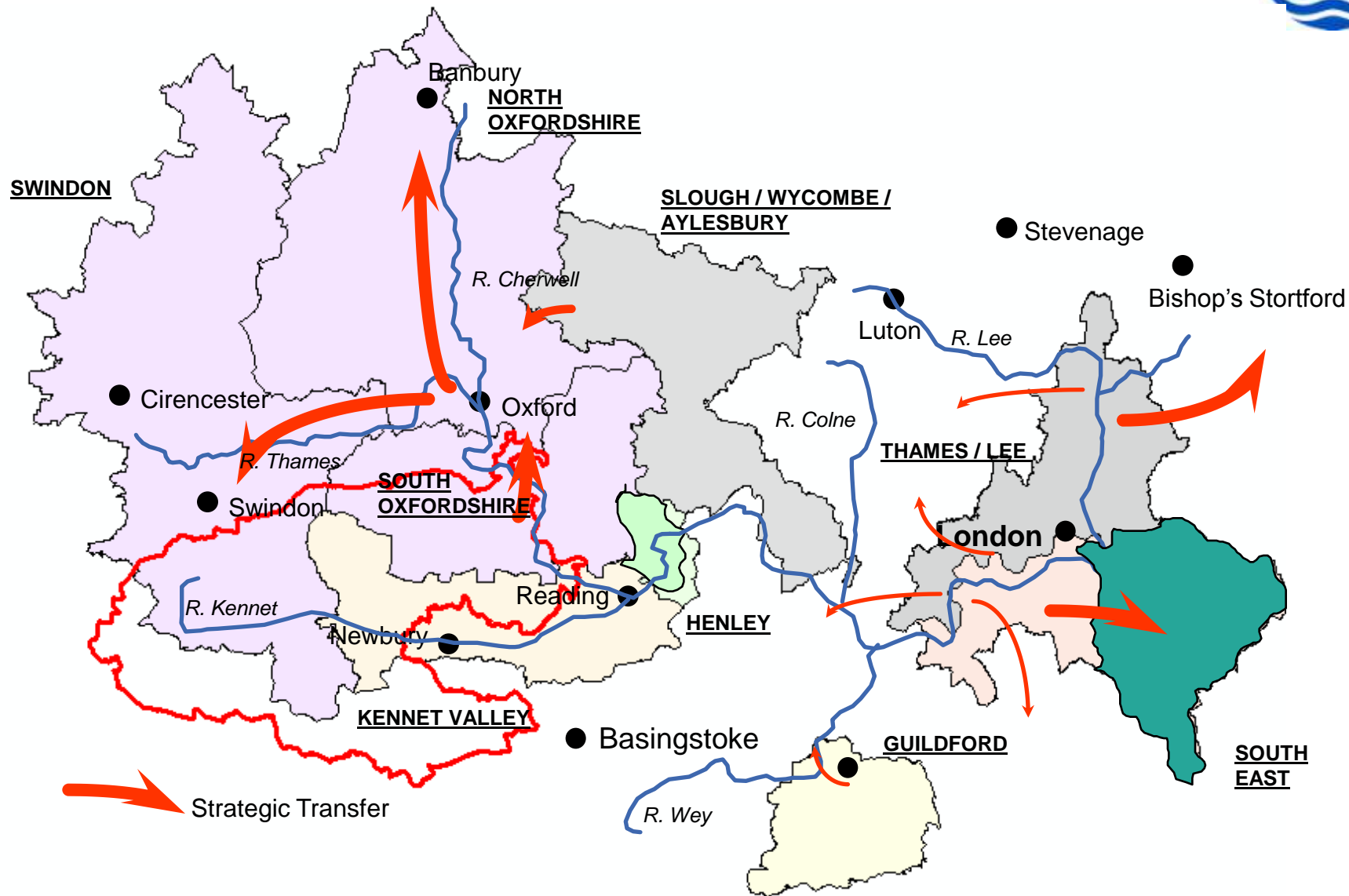
Thames Water Operational Area



- Water Only Companies
- Sewerage Region Boundary
- Water Region Boundary
- Principal Water Treatment Works
- Principal Sewage Treatment Works
- Groundwater Sources
- Reservoirs



Water Resource Zones





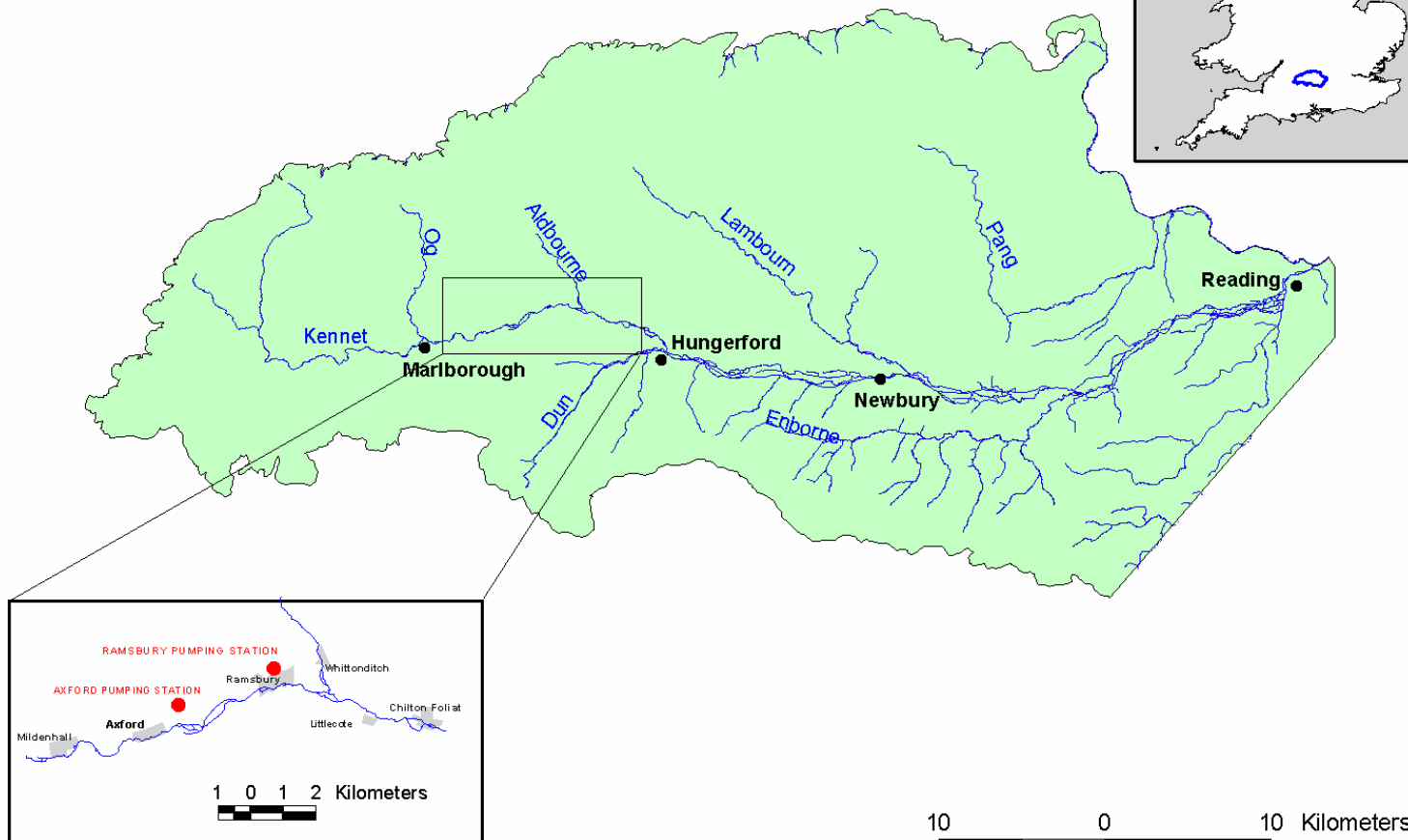
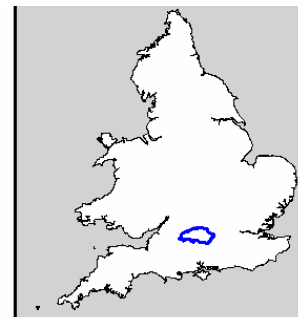
TW Low Flow Investigations

- River Kennet SSSI (Axford)
- Kennet and Lambourn Floodplain (Speen)
- Blewbury Ponds
- Sulham and Tidmarsh Meadows SSSI
- River Shalbourne
- Sulham Brook
- River Pang
- River Og

Locations of Alleviation of Low Flow Investigations



The Study Reach



Kennet and Lambourn Floodplain



Water Resource Plan



- Swindon and Oxfordshire WRZ (SWOX)
 - Deficit predicted to grow over 25 years.
 - Short term (next 5 years) focus will be on demand management
 - Metering
 - Leakage
 - Tariff trials
 - In the longer term a new strategic resource will be required
 - Work is underway to determine the resource required, looking at reservoirs, strategic transfers and effluent reuse

Water Resource Plan – S/D balance peak

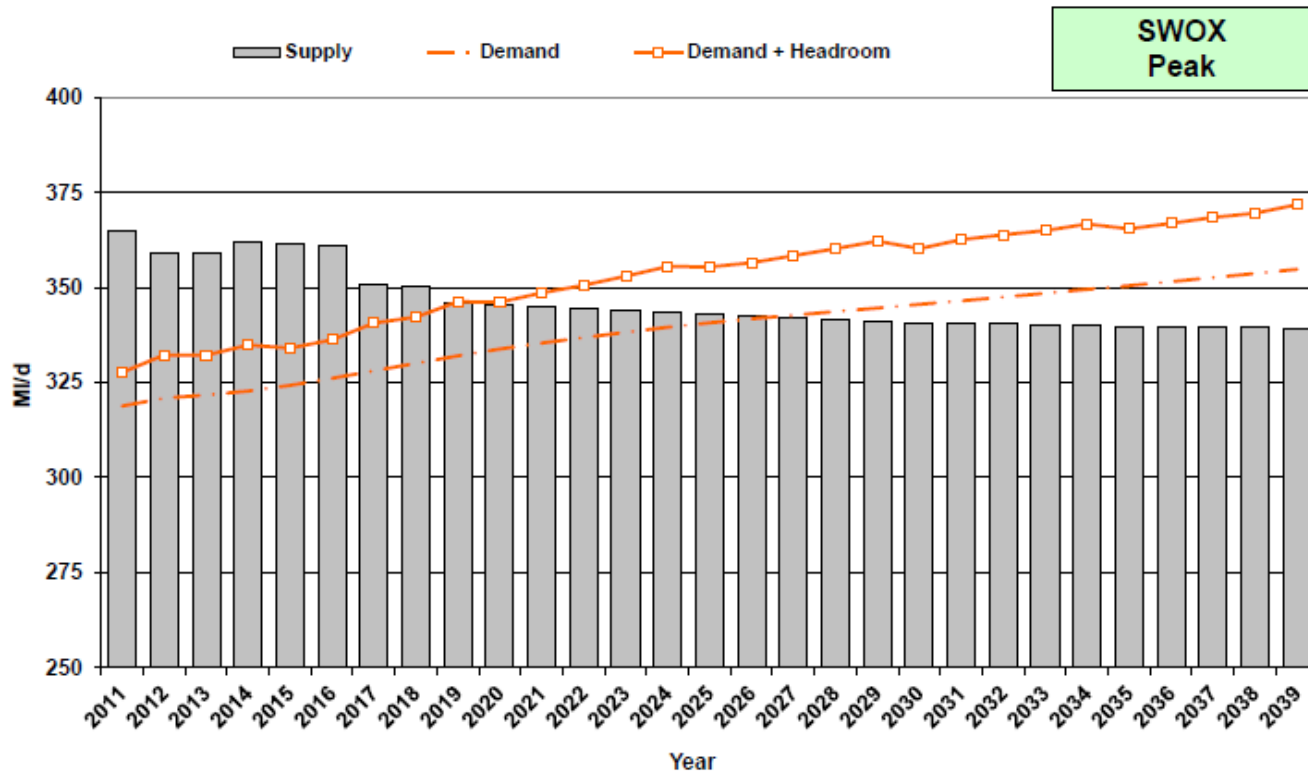


Figure 6-3: Baseline SWOX supply demand graph – ADPW

SWOX Final Plan – Overall Plan (DYCP)



Final Plan	Delivery date and ongoing supply demand benefit (Megalitres per day)				
	2015-2020	2020-2025	2025-2030	2030-2035	2035-2040
SWOX					
Leakage reduction	-	0.6	1.0	0.3	-
Pressure Management	-	-	-	-	-
Progressive Household Metering •62,828 households in 2020-25, •19,703 households in 2025-30	1.6	8.6	4.3	0.9	1.3
Optant meters (inc in baseline forecast) (AMP6: 19,859, AMP7: 21,381, AMP8: 6,406)					
Water Efficiency*	0.0	3.3	0.3	-2.1	-0.8
Tariffs and behaviour change**	0.2	8.2	1.3	0.2	0.2
Transfer from SWA WRZ					2.3

SWOX Final Plan – Leakage Reduction and Metering



Table 9-7: SWOX Final Plan - Annual Average Leakage Forecast (Table 10b Equivalent) [MI/d]

	End AMP5	End AMP6	End AMP7	End AMP8	End AMP9	End AMP10
	2014–15	2019–20	2024–25	2029–30	2034–35	2039–40
SWOX	59.5	59.5	58.9	57.9	57.6	57.6

Table 9-8: SWOX Final Plan – Meter Penetration

Household Meter Penetration (%)					
	End AMP6	End AMP7	End AMP8	End AMP9	End AMP10
	2019–20	2024–25	2029–30	2034–35	2035–39
SWOX	65.2%	84.7%	92.7%	92.9%	93.1%

Water Quality Issues



- Nitrate, Pesticides
 - Two groundwaters contaminated with pesticides
 - Metaldehyde detected in the River Kennet
- Catchment Management Activities
 - Designation of vulnerable areas as ‘Safeguard Zones’
 - Investigations - understanding sources and pathways
 - Partnership working with the EA, CSF, ARK, Network Rail, National Grid and pesticide manufacturers
 - Raising awareness with Farmers and encouraging best practice

Any Questions

