

Appendix 'F' – Drought Management Actions

1.	Option Name	Appeals for Restraint and Enhanced Leakage Control
	Trigger (or preceding actions)	Groundwater Level 1
	Demand Saving MI/day unless stated otherwise	4.3 MI/d
	Demand Saving Percentage reduction on peak week demand	2.5%
	Location Area affected or whole supply zone	Whole Company Area
	Implementation timetable Preparation time, time of year effective, duration	One week/spring/six months
	Permissions required and constraints Including details of liaison carried out with bodies responsible for giving any permits or approvals	Liaison with CCWater and the EA
	Risks associated with option	Depends on Customer behaviour. Co-operation with other Water Companies required. Negative press coverage can reduce savings. Need to plan enhanced leakage reductions.

Appendix 'F' – Drought Management Actions

2.	Option Name	Temporary Ban
	Trigger (preceding actions)	Groundwater Level 2 (Following consultation on Temporary Ban)
	Demand Saving Ml/day unless stated otherwise	8.3 Ml/d
	Demand Saving Percentage reduction on peak week demand	5%
	Location Area affected or whole supply zone	Whole Company Area
	Implementation timetable Preparation time, time of year effective, duration	Minimum of 8 weeks after Appeal for Restraint
	Permissions required and constraints Including details of liaison carried out with bodies responsible for giving any permits or approvals	CCWater, EA
	Risks associated with option	Consultation and appeals process untried. Large number of responses. Legal challenges

Appendix 'F' – Drought Management Actions

3.	Option Name	Non Essential Use Ban
	Trigger (preceding actions)	Groundwater Level 3 (Follows Temporary Ban)
	Demand Saving MI/day unless stated otherwise	7.9 MI/d
	Demand Saving Percentage reduction on peak week demand	5%
	Location Area affected or whole supply zone	Whole Company Area
	Implementation timetable Preparation time, time of year effective, duration	Minimum of 12 Weeks from Temporary Ban
	Permissions required and constraints Including details of liaison carried out with bodies responsible for giving any permits or approvals	Drought Order, CCWater, EA, Defra
	Risks associated with option	Objections from commercial water users. Calls for compensation.

Appendix 'F' – Supply Side Drought Management Actions

Option Implementation Assessment	Option Name	Drought Permit – Source S
	Trigger (preceding actions)	Groundwater Level 3 (Follows Temporary Ban) Serious Shortage of Rainfall
	Deployable Output of action MI/day unless stated otherwise	8.5 MI/d
	Location Area affected or whole supply zone	Source S
	Implementation timetable Preparation time, time of year effective, duration	12 weeks
	Permissions required and constraints Including details of liaison carried out with bodies responsible for giving any permits or approvals	Drought Order EA/Defra Liaison with Natural England on SSSI
	Risks associated with option	Source currently running at 2.5 MI/d Water Quality
Environmental Assessment	Risk to the Environment (High / Medium / Low or Unknown)	Low
	Summary of likely environmental impacts Include details for features of moderate and major sensitivity and minor sensitivity features from designated sites	Swanbourne Lake would be dry before drought permit is implemented
	Baseline information used	Environment Agency Modelling Data
	Summary of additional baseline monitoring requirements	Groundwater levels and the ecology of Swanbourne Lake.
	Mitigation Measures	Compensation water to lower SSSI
	Impact on Other Activities	Wetland and Wildlife Trust

Appendix 'F' – Supply-Side Drought Management Actions

Option Implementation Assessment	Option Name	Lowering Existing Borehole Pumps
	Trigger(s) (preceding actions)	Twin-track with Drought Order
	Deployable Output of action Ml/day unless stated otherwise	Maintaining existing yield
	Location Area affected or whole supply zone	Whole Company area
	Implementation timetable Preparation time, time of year effective, duration	12 weeks, summer, one year
	Permissions required and constraints Including details of liaison carried out with bodies responsible for giving any permits or approvals	None
	Risks associated with option	Depends on borehole depth and groundwater level
Environmental Assessment	Risk to the Environment (High / Medium / Low or Unknown)	Low
	Summary of likely environmental impacts Include details for features of moderate and major sensitivity and minor sensitivity features from designated sites	Reduced groundwater level
	Baseline information used	None
	Summary of additional baseline monitoring requirements	None
	Mitigation Measures	None
	Impact on Other Activities	Need to plan the outage required to lower the pumps

Appendix 'F' – Supply Side Drought Management Actions

Option Implementation Assessment	Option Name	Recommission Existing Boreholes
	Trigger(s) (preceding actions)	Temporary Ban
	Deployable Output of action Ml/day unless stated otherwise	Unknown
	Location Area affected or whole supply zone	Various
	Implementation timetable Preparation time, time of year effective, duration	3 months/Summer/6 months
	Permissions required and constraints Including details of liaison carried out with bodies responsible for giving any permits or approvals	Drought Permit
	Risks associated with option	Water Quality
Environmental Assessment	Risk to the Environment (High / Medium / Low or Unknown)	Low
	Summary of likely environmental impacts Include details for features of moderate and major sensitivity and minor sensitivity features from designated sites	Lower groundwater levels
	Baseline information used	None
	Summary of additional baseline monitoring requirements	Groundwater levels and river flows
	Mitigation Measures	Limited period of abstraction
	Impact on Other Activities	Derogation of other abstraction

Appendix 'F' – Supply Side Drought Management Actions

Option Implementation Assessment	Option Name	Recommission Unused Commercial Boreholes
	Trigger(s) (preceding actions)	Twin track with demand management
	Deployable Output of action Ml/day unless stated otherwise	Unknown
	Location Area affected or whole supply zone	Various
	Implementation timetable Preparation time, time of year effective, duration	3 months/Summer/6 months
	Permissions required and constraints Including details of liaison carried out with bodies responsible for giving any permits or approvals	Drought Permit
	Risks associated with option	Water Quality
Environmental Assessment	Risk to the Environment (High / Medium / Low or Unknown)	Low
	Summary of likely environmental impacts Include details for features of moderate and major sensitivity and minor sensitivity features from designated sites	Lower groundwater levels
	Baseline information used	None
	Summary of additional baseline monitoring requirements	Groundwater levels and river flows
	Mitigation Measures	Limited period of abstraction
	Impact on Other Activities	Derogation of other abstraction

Appendix 'F' – Supply Side Drought Management Actions

Option Implementation Assessment	Option Name	Deployable Output Recovery
	Trigger(s) (or preceding actions)	Twin track with demand management
	Deployable Output of action MI/day unless stated otherwise	Up to 22 MI/d
	Location Area affected or whole supply zone	Source J Source O Source H Source C
	Implementation timetable Preparation time, time of year effective, duration	3 months/Summer/6 months
	Permissions required and constraints Including details of liaison carried out with bodies responsible for giving any permits or approvals	None – existing licensed capacity
	Risks associated with option	Water Quality
Environmental Assessment	Risk to the Environment (High / Medium / Low or Unknown)	Low
	Summary of likely environmental impacts Include details for features of moderate and major sensitivity and minor sensitivity features from designated sites	Reduced groundwater levels
	Baseline information used	WFD Investigations
	Summary of additional baseline monitoring requirements	None
	Mitigation Measures	None
	Impact on Other Activities	

Appendix 'F' Supply Side Drought Management Actions

Option Implementation Assessment	Option Name	Reduced Compensation Flows
	Trigger(s) (or preceding actions)	Last Resort
	Deployable Output of action Ml/day unless stated otherwise	5.5 Ml/d
	Location Area affected or whole supply zone	Source N (River Ems) Source H (River Meon) Source F (River Meon) Source A (River Itchen) Source B
	Implementation timetable Preparation time, time of year effective, duration	3 months/Summer/6 months
	Permissions required and constraints Including details of liaison carried out with bodies responsible for giving any permits or approvals	Drought Permit to allow reduced flows in rivers and into harbours. Appropriate Assessment for Habitats Regulations
	Risks associated with option	Unlikely to be supported by the Environment Agency
Environmental Assessment	Risk to the Environment (High / Medium / Low or Unknown)	High
	Summary of likely environmental impacts Include details for features of moderate and major sensitivity and minor sensitivity features from designated sites	Impacts on river ecology and harbour ecology
	Baseline information used	WFD Investigations
	Summary of additional baseline monitoring requirements	Flow and ecological data
	Mitigation Measures	Limited period of abstraction
	Impact on Other Activities	

Appendix 'F' – Supply Side Drought Management Actions

Option Implementation Assessment	Option Name	DESALINATION PLANT
	Trigger(s) (or preceding actions)	Temporary Ban
	Deployable Output of action MI/day unless stated otherwise	5.0 MI/d
	Location Area affected or whole supply zone	Portsmouth Harbour
	Implementation timetable Preparation time, time of year effective, duration	3 months/Summer/6 months
	Permissions required and constraints Including details of liaison carried out with bodies responsible for giving any permits or approvals	Drought Permit
	Risks associated with option	Requires consents for abstraction and discharge
Environmental Assessment	Risk to the Environment (High / Medium / Low or Unknown)	Medium
	Summary of likely environmental impacts Include details for features of moderate and major sensitivity and minor sensitivity features from designated sites	Impact of salinity on Portsmouth Harbour SPA
	Baseline information used	AMP5 Studies
	Summary of additional baseline monitoring requirements	Harbour salinity
	Mitigation Measures	Discharge on a falling tide
	Impact on Other Activities eg fisheries, industry etc	MOD and Ferry Port activity