



# Draft Drought Plan

## Appendix 5: Drought Permit Readiness



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## A5.1. Drought permit readiness programme of work

The programme of work below shows our current plan for drought permit readiness. This has been shared with the Environment Agency as part of pre-consultation discussions. It is an ongoing piece of work; development will continue alongside the Environment Agency, including gaining feedback on the volume of data necessary<sup>1</sup> and timing of EAR production. We will continue to share further versions of this plan with the Environment Agency as we develop it.

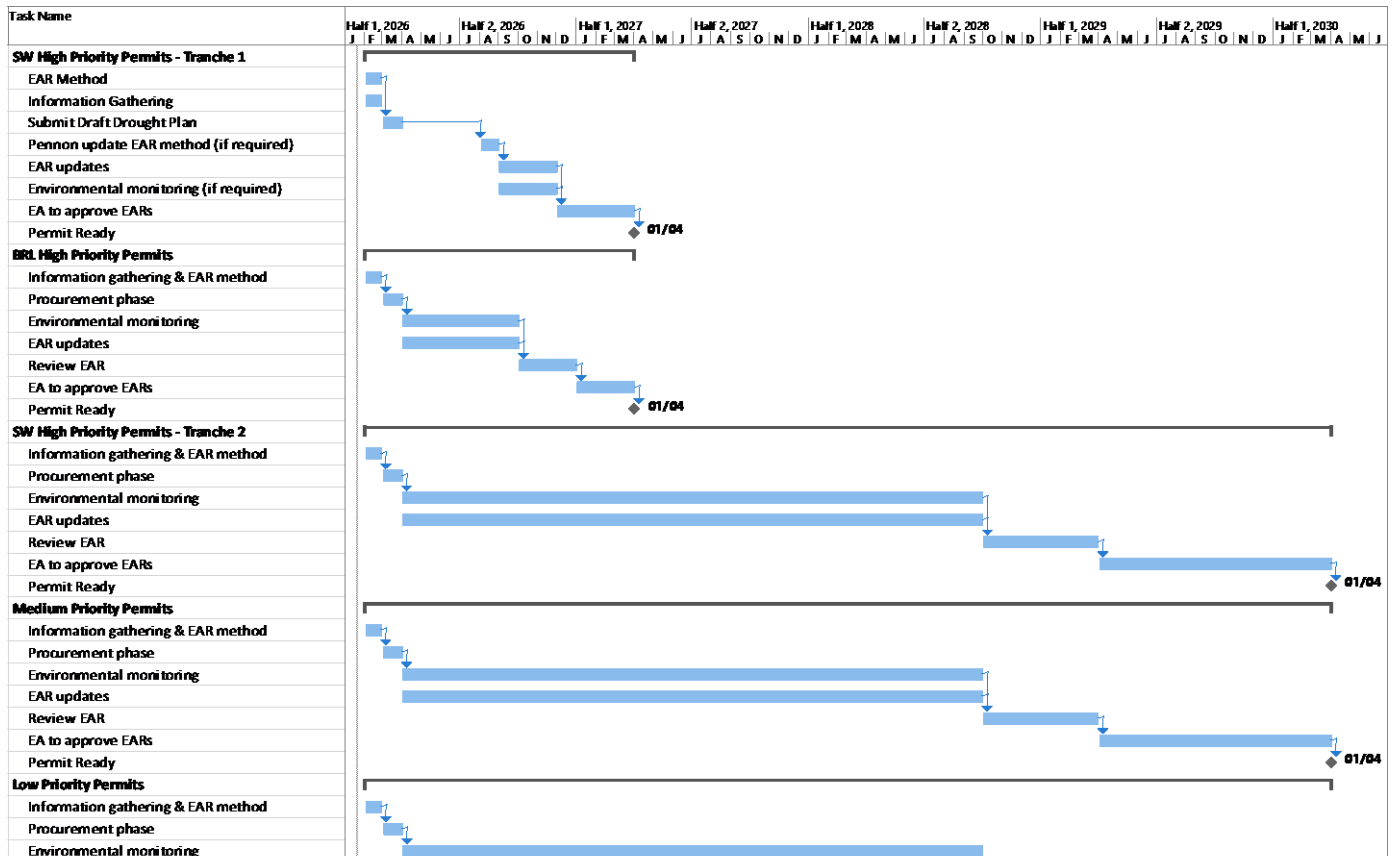


Figure 5.1: Programme plan for drought permit readiness across the South West, Bristol, Bournemouth and Isles of Scilly

Table 5.1: Prioritisation of permits shown in programme plan in figure 5.1

Permit Code	Permit Name
High Priority – Tranche 1	
R-11	River Lyd - extend Pumping Season to Apr-May
C-11	Hawk’s Tor Pit – abstract from new source
Br-27a	Blagdon reservoir 50% reduction of compensation release
Br-28a	Chew Valley Lake 50% reduction of compensation release
Br-30	Cheddar Ponds 50% reduction of compensation release

<sup>1</sup> Note that it may not be possible to have all tranche 1 permits application-ready by April 2027 due to lack of baseline data to support an update to EARs. We will be in ongoing communication with the Environment Agency on this matter.

C-06	Colliford - reduce compensation flow
R-25	Roadford – reduce compensation flow
High Priority – Tranche 2	
C-03	Restormel - increase annual abstraction limit
C-04a	Stannon Lake – increase daily abstraction limit
C-07a	Park Lake – increase daily abstraction limit
Medium Priority	
W-03	Wimbleball – reduce compensation flow
W-09	Wimbleball reservoir - extend Pumping Season to April/May
C-37	River Cober at Wendron increase annual licence limit
C-30	Siblyback – reduce compensation flow
R-45	River Dart and Littlehempston boreholes
R-07	Slade Reservoir- abstract from new source
Br-31b	River Axe – extend pump storage season – May
Br-47	Early River Axe commissioning – Oct
Low Priority (permits and operational actions)	
C-10	Drift- 50% reduction of compensation flow
C-17	Stithians – reduce compensation flow
C-40	Colliford Fish Bank– reduce or not provide
R-20	Avon Reservoir - 50% reduction of compensation flow
R-21	Burrator Reservoir - 50% reduction of compensation flow
R-22	Fernworthy Reservoir - 50% reduction of compensation flow
R-23	Trenchford Reservoir - 50% reduction of compensation flow
R-24	Meldon Reservoir - 50% reduction of compensation flow
R-26	Upper Tamar Lake - 50% reduction of compensation flow
R-48	Roadford fish bank – reduce or not provide
W-06	Brampford Speke Borehole- abstract from new source
W-06	Stoke Cannon Borehole- abstract from new source
W-22	Wimbleball Fish Bank– reduce or not provide
Br-29	Chew Magna reservoir 50% reduction of compensation release
Br-31a	River Axe – extend pump storage season – Oct
BN-04	River Stour at Longham- remove low flow constraint
BN-05	Stanbridge boreholes- increase daily abstraction limit
BN-12	River Stour at Longham – increase weekly abstraction total
IS-18	St Martins – increase abstraction from boreholes to greater than 20m <sup>3</sup> /d

## A5.2. Example ESoR

We have recent experience of undertaking Exceptional Shortage of Rainfall (ESOR) analysis to support drought permit applications following the drought of 2022 and the impacts we experience across Cornwall and Devon.

We recognised that our initial ESOR cases in 2022 had some deficiencies and we worked closely with the Environment Agency at the time to develop our ESOR analysis and refined our approach during the event based on feedback at the time.

Appendix 7 includes our final ESOR that supported our application for a drought permit on the River Lyd in March 2023. This shows the steps we would take to demonstrate an ESOR. In future ESOR assessments we would update the assumed long term average (LTA) period from 1961-1990 to 1991-2020.

### A5.3. EAR Methodology

Appendix 8 includes our EAR Methodology. This will be used to inform the consistent production of EARs as shown in the programme plan in Figure 5.1.

### A5.4. Other considerations as part of implementation

For our drought actions to implementation ready we also need to be aware of other considerations. This includes any infrastructure needs such as temporary pumping and pipelines and, any changes to control and metering. In addition, there may be permits which are required to make any of these identified infrastructure changes, such as Flood Risk Activity Permits (FRAP). These permits are seasonal, so work needs to be planned in advance. There may also be other local/interested parties which we will need to consult with such as fisheries groups. The gathering of such information for each action will continue as part of our drought permit application readiness work. We have included current known details within our one page summaries in Appendices 3 and 4.

Table 5.2: Other permit considerations as part of implementation

<b>WRZ</b>	<b>Action Code</b>	<b>Action Name</b>	<b>Additional considerations e.g. Infrastructure, measurement</b>	<b>Other permits/approvals</b>
BNW	BN-04	River Stour at Longham	Temporary pumps and flow meters	
BNW	BN-05	Stanbridge boreholes 17.5 MI/d	No additional needs - infrastructure or measurement	Fisheries Interest Groups
BNW	BN-12	River Stour at Longham - increase weekly abstraction total	No additional needs - infrastructure or measurement	
WIM	W-06	Bramford Speke Borehole	No additional needs - infrastructure or measurement	
WIM	W-06	Stoke Canon Borehole	No power needs generator, and pump. Monitoring.	
WIM	W-03	Wimbleball compensation flow	No additional needs - infrastructure or measurement	Fisheries Groups consultation
WIM	W-09	Wimbleball reservoir extend Pumping Season to April/May	No additional needs - infrastructure or measurement	Fisheries Groups consultation
WIM	W-22	Wimbleball Fish Bank	No additional needs - infrastructure or measurement	Fisheries Groups consultation
COL	C-03	Restormel annual volume	No additional needs - infrastructure or measurement	Fisheries Groups consultation
COL	C-37	River Cober at Wendron increase annual licence limit	No additional needs - infrastructure or measurement	
COL	C-07a	Park Lake - increase daily abstraction limit	Temporary pump, generator and pipeline Infrastructure used in 2022	
COL	C-11	Hawk's Tor Pit	Temporary pump and outstation. Compensation flow infrastructure. Infrastructure used in 2022	
COL	C-04a	Stannon Lake - increase daily abstraction limit	Compensation flow infrastructure. Infrastructure used in 2022	

COL	C-06	Colliford compensation flow	No additional needs - infrastructure or measurement	Fisheries Groups consultation
COL	C-30	Siblyback compensation flow	No additional needs - infrastructure or measurement	
COL	C-10	Drift compensation flow	No additional needs - infrastructure or measurement	
COL	C-17	Stithians compensation flow	No additional needs - infrastructure or measurement	
COL	C-40	Colliford Fish Bank	No additional needs - infrastructure or measurement	Fisheries Groups consultation
ROA	R-45	River Dart & Littlehempston boreholes	TBC	Fisheries Interest Groups
ROA	R-11	River Lyd Apr-May	No additional needs - infrastructure or measurement	Fisheries Groups consultation
ROA	R-07	Slade Reservoir	Temporary pumps, measurement Tbc	
ROA	R-25	Roadford compensation flow	No additional needs - infrastructure or measurement	Fisheries Groups consultation
ROA	R-20	Avon Reservoir compensation flow	No additional needs - infrastructure or measurement	
ROA	R-21	Burrator Reservoir compensation flow	No additional needs - infrastructure or measurement	
ROA	R-22	Fernworthy Reservoir compensation flow	No additional needs - infrastructure or measurement	
ROA	R-23	Trenchford Reservoir compensation flow	No additional needs - infrastructure or measurement	
ROA	R-24	Meldon Reservoir compensation flow	No additional needs - infrastructure or measurement	
ROA	R-26	Upper Tamar Lake compensation flow	No additional needs - infrastructure or measurement	
ROA	R-48	Roadford fish bank	No additional needs - infrastructure or measurement	Fisheries Groups consultation
Brl	Br-27a	Blagdon reservoir 50% reduction of compensation release	Possible modification weir to reduce comp flow? Tbc.	Consultation with fish farm

Brl	Br-27b	Blagdon reservoir delay of late summer water bank release	TBC	Consultation with fish farm
Brl	Br-28a	Chew Valley Lake 50% reduction of compensation release	TBC	
Brl	Br-28b	Chew Valley Lake delay of late summer water bank release	TBC	
Brl	Br-29	Chew Magna reservoir 50% reduction of compensation release	TBC	
Brl	Br-30	Cheddar Ponds 50% reduction of compensation release	TBC	
Brl	Br-31a	River Axe - extend pump storage season -Oct	No additional needs - infrastructure or measurement	
Brl	Br-31b	River Axe - extend pump storage season - May	No additional needs - infrastructure or measurement	
Brl	Br-47	Early River Axe commissioning - Oct	Confirm if pipework is in place to return discharge to abstraction point. Flow monitoring.	
IoS	IS-18	St Martins - increase abstraction from boreholes to greater than 20m <sup>3</sup> /d	TBC	