

Environment Agency Reference:

DRAFT

Please quote the reference number in all correspondence



**Environment
Agency**

DRAFT Drought Permit – modify existing abstractions

Section 79A Water Resources Act 1991 as amended by the Environment Act 1995

The Environment Agency grants this Drought Permit to:

South West Water Limited ("the Water Company")
Peninsula House
Rydon Lane
Exeter
EX2 7HR

Company registration number 02366665

This drought permit authorises the Water Company to abstract water pursuant to Licence No. 15/48/018/G/118/R01 as issued on 30 January 2018 (the **Licence**), but with the provisions of that Licence suspended and/or modified as set out in the Schedule of Conditions to this drought permit.

This drought permit commences from the effective date shown below and shall remain in force until the date of expiry shown below.

All other provisions of the said Licence shall remain in full force and effect.

Signed.....

Date of issue.....

Date effective.....

Date of expiry
(date not exceeding 6 months from the date of becoming effective)

Environment Act 1995
Water Resources Act
1991

SCHEDULE OF CONDITIONS

1. MAXIMUM QUANTITY OF WATER TO BE ABSTRACTED DURING THE SPECIFIED PERIODS

- 1.1. Subject to Conditions 2(a), 2(b), 3, 4, 6.1 and 6.4, from 10 November 2022 to 31 December 2022 inclusive, the 'Maximum quantity of water to be abstracted' (condition 6.1) in the Licence shall be substituted with the following:

Not exceeding 875 cubic metres per hour
Not exceeding 14,000 cubic metres per day
Not exceeding 3,232,000 cubic metres per year

At an instantaneous rate not exceeding 243 litres per second

- 1.2. From 1 January 2023 to 30 April 2023 inclusive, the 'Maximum quantity of water to be abstracted' (condition 6.1) in the Licence shall be substituted with the following:

Not exceeding 875 cubic metres per hour
Not exceeding 14,000 cubic metres per day
Not exceeding 3,640,000 cubic metres per year

At an instantaneous rate not exceeding 243 litres per second

- 1.3. From 10 November 2022 to 30 April 2023 inclusive, condition 6.2 of the Licence shall be substituted with the following:

The aggregate quantity of water authorised to be abstracted under this licence for the purpose of public water supply shall not exceed:

An average of 10,000 cubic metres per day over a rolling 1,825 day period.

Note: an hour means any period of 60 consecutive minutes, a day means any period of 24 consecutive hours and a year means the 12 month period beginning on 01 January and ending on 31 December.

2. RECORDS

- (a) From commencement of this permit, condition 8.4 of the Licence shall be substituted with the following:

"The Licence Holder shall send a copy of the records required by conditions 8.1, 8.2 and 8.3, or summary data at the same time each week to the Agency for the duration of this permit, or within 24 hours of being so directed in writing by the Agency".

- (b) In addition to the reporting requirements set out in the Licence and as varied above by condition 2(a) of this permit, the Water Company shall report to the Agency as follows:

For the volume of water in Colliford Reservoir:

- (i) The Water Company shall record the volume of water in Colliford reservoir in megalitres each day for the duration of this permit, or at such other intervals as may be approved by the Agency.
- (ii) The Water Company shall submit records of the volume of water in Colliford reservoir as specified in condition 2(b)(i) to the Agency at the same time each week for the duration of this permit, or within 24 hours of being so directed in writing by the Agency.

3. ENVIRONMENTAL MONITORING

The Water Company shall undertake environmental monitoring as set out in the 'Environmental Monitoring Schedule' attached to this permit at Appendix 1.

4. BANKSIDE MONITORING

The Water Company shall undertake bankside monitoring as set out in the 'Bankside Monitoring Schedule' attached to this permit at Appendix 2.

5. MITIGATION CONDITIONS

- 5.1. The Water Company shall notify the Agency by telephone as soon as reasonably practicable on 0800 807060 to provide details of any environmental impacts as specified in Appendix 1.
- 5.2. Should the mitigation actions need to be deployed as set out in Appendix 3, the Water Company shall submit updates weekly, or as otherwise agreed in writing with the Agency. The updates shall include but not be limited to the following: a weekly update on the effects of the action.
- 5.3. Following the closure of the deployment of the mitigation action set out in Appendix 3 a complete summary report shall be sent to the Agency within 7 working days.

6. FURTHER CONDITIONS

- 6.1. The Water Company must not abstract any additional volume of water from Park Lake as set out at condition 1, above the volumes authorised by the Licence, unless a screen of a minimum aperture size of 2 millimetres is installed on the existing transfer pumps at Park Lake
- 6.2. The Water Company shall maintain, repair or replace the screen in accordance with the manufacturer's specifications, to ensure that it remains effective at all times and keep records of such maintenance.
- 6.3. The Water Company shall keep records of such maintenance for 6 years and shall make them available during all reasonable hours for inspection by the Agency.

- 6.4. The Water Company shall submit an environmental assessment report to the Agency by no later than 31 December 2022, or as otherwise agreed in writing with the Agency.

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APPENDIX 1 - ENVIRONMENTAL MONITORING SCHEDULE

<p>Assessment Type</p>	<p>1. Visual monitoring “Walkover Surveys” to identify signs of environmental stress, including taking a baseline photo record and site notes at Sites 1 and 2.</p> <p>2. Review of piezometer data at Site 3</p> <p>Within each survey the local weather conditions shall be recorded, along with comment on any significant weather events during the preceding days that could influence the survey results.</p> <p>The Water Company shall discuss and agree with the Agency any proposed changes to this monitoring schedule in advance of carrying out any of the survey work.</p>
<p>Duration of Monitoring</p>	<p>Duration of Permit, unless specified otherwise</p>
<p>Environmental impacts</p>	<p>The following are suggested signs of environmental impacts but are not exhaustive. If advice is required then the Agency can be contacted on 0800 807060.</p> <ul style="list-style-type: none"> • Fish in distress, for example gasping at the surface or leaping out of the water. • Dead fish. • Concentration of fish in restricted areas/pools which could increase susceptibility to predation. • Inhibition of movement of fish past river structures or other barriers. • Low levels of dissolved oxygen. • Signs of polluting discharges during walkover surveys, impacts exacerbated during lower flows and/or reduced dilution. • Algal blooms. • Establishment and/or expansion of invasive non-native species.
<p>Monitoring Method & Standard of Assessment</p>	<p>The water company shall measure and record the following information during the walkover surveys.</p> <p>For all environmental impacts identified:</p> <ul style="list-style-type: none"> • The location of the site of environmental impacts observed. • Dissolved oxygen concentration, water temperature, suspended solids, ammonia and pH measurements shall be taken and recorded anywhere in the survey area where (if) signs of environmental stress are identified.

Environment Act 1995
 Water Resources Act
 1991

	<ul style="list-style-type: none"> • A photo or photos shall be taken of any signs of environmental distress. • Weather conditions at the time of the observations. <p>Where relevant to the environmental impacts observed:</p> <ul style="list-style-type: none"> • Approximate number of dead fish. • Any signs of damage or disease. • Approximate number of fish in distress, gasping at the surface or leaping out of the water. • Whether the fish are being stranded in shallow pools. • Description of structures and stretches of any watercourses that have no flow or significantly reduced flow. • Approximate size of the fish affected. • The species affected. • Signs of pollution. • Presence of algal blooms/scums. • Species, location and extent of invasive non-native species.
<p>Frequency of monitoring</p>	<p>The Walkover Surveys shall be undertaken prior to implementation of the permit. During the permit, the first survey shall take place on week one of drought permit implementation and weekly thereafter until 31 January 2023.</p> <p>Data from the Piezometer to be collected prior to the implementation of the drought permit and then fortnightly for the duration of the permit.</p>
<p>Location of Monitoring</p>	<p>At the locations listed below:</p> <p>Site 1: <u>Park Lake</u></p> <p>Site 2: <u>Trenant Stream from Park Lake gauging station (SX 19668 70268) to Carpuan Woods (SX 2060 6887)</u></p> <p>Site 3:</p> <p><u>Pz1s: SX 18867117 (depth 3m)</u></p> <p><u>Pz1d: SX 18867117 (depth 8m)</u></p> <p><u>Pz3s: SX 19027105 (depth 3m)</u></p> <p><u>Pz3d: SX 19027105 (depth 8m)</u></p> <p><u>Pz5s: SX 19357054 (depth 3m)</u></p>

	<p><u>Pz5d: SX 19357054 (depth 8m)</u></p> <p><u>Pz6s: SX 19547036 (depth 3m)</u></p> <p><u>Pz6d: SX 19547036 (depth 3m)</u></p>
<p>Survey Results</p>	<p>In addition to any notification given under condition 5.1 a copy of the monitoring results shall be sent to the Environment Agency IEP (Integrated Environmental Planning) team ieppdevonandcornwall@environment-agency.gov.uk within 7 days of the survey taking place.</p>
<p>Responsibility</p>	<p>Unless otherwise discussed and agreed in writing with the Agency, the Water Company will be responsible for all of the costs associated with this monitoring programme.</p> <p>Health and safety requirements whilst carrying out the surveys are the responsibility of the Water Company.</p>

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APPENDIX 2 - BANKSIDE MONITORING SCHEDULE

<p>Assessment Type</p>	<p>Visual monitoring of the banksides of Park Lake at Site 1 ("Bankside Monitoring Surveys")</p> <p>Within each survey the local weather conditions shall be recorded, along with comment on any significant weather events during the preceding days that could influence the survey results.</p> <p>The Water Company shall discuss and agree with the Agency any proposed changes to this monitoring schedule in advance of carrying out any of the survey work.</p>
<p>Duration of Monitoring</p>	<p>Duration of Permit, unless specified otherwise</p>
<p>Visual impacts</p>	<p>The following examples are suggested signs of visual movement but are not exhaustive:</p> <ul style="list-style-type: none"> • Cracks • Heaving • Rotational failure • Ponding at the crest
<p>Monitoring Method & Standard of Assessment</p>	<p>The water company shall measure and record the following information during the Bankside Monitoring surveys.</p> <p>For all environmental impacts identified:</p> <ul style="list-style-type: none"> • The aspect of the impact observed • location of the site of impacts observed. • A photo or photos shall be taken of any signs of impacts. • Weather conditions at the time of the observations.
<p>Frequency of monitoring</p>	<p>The Bankside Monitoring Surveys shall be undertaken prior to implementation of the permit. During the permit, the first survey shall take place on week one of drought permit implementation and weekly thereafter until the termination of the permit.</p>
<p>Location of Monitoring</p>	<p>At the locations listed below. National Grid References to be agreed in writing with the Agency:</p> <p><u>Site 1: Park Lake</u></p>
<p>Survey Results</p>	<p>In addition to any notification given under condition 5.1 a copy of the monitoring results shall be sent to the Environment Agency IEP (Integrated Environmental Planning) team</p>

	<p>ieppdevonandcornwall@environment-agency.gov.uk within 7 days of the survey taking place.</p>
<p>Responsibility</p>	<p>Unless otherwise discussed and agreed in writing with the Agency, the Water Company will be responsible for all of the costs associated with this monitoring programme.</p> <p>Health and safety requirements whilst carrying out the surveys are the responsibility of the Water Company.</p>

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APPENDIX 3 – MITIGATION PLAN

Environmental Impact	Mitigation Plan
Pollution incident and/or where there is evidence of ecological distress	In the unlikely event that bank side stability issues at Park Lake are identified from the Bankside Monitoring Surveys, we will instruct an accredited supervising civil engineer to attend the site to provide specialist geotechnical advice and will cease pumping under this permit until advised by the accredited supervising civil engineer that it is safe to resume pumping under this permit.
<ul style="list-style-type: none"> • Fish in distress, for example gasping at the surface or leaping out of the water. • Dead fish. • Concentration of fish in restricted areas/pools which could increase susceptibility to predation. • Inhibition of movement of fish past river structures or other barriers. 	<p>Water quality monitoring shall be undertaken at the location to include water temperature, dissolved oxygen content and pH.</p> <p>Arranging for a fish rescue team to rescue fish (if necessary) and deposit them in a location agreed between the Environment Agency and the Water Company</p>