

**P-WAT-WR1**

**The Environmental Authorisations (Scotland) Regulations 2018 (EASR)**

**Water Permit Activity:**

**Abstraction from the water environment of more than 50m3 per day and new associated impoundments (excluding for hydro power)**

Version 1.0

August 2025

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## How to use this activity form

Use this form to apply for:

* A **new permit** to carry on the water activity: ‘Abstraction of water from the water environment of more than 50m3 per day (not for the purpose of hydro generation) and new associated impoundments’.
* A **variation of an existing permit** that authorises the water activity: ‘Abstraction of water from the water environment of more than 50m3 per day (not for the purpose of hydro generation) and new associated impoundments’.
* A **variation of an existing permit** to add the water activity: ‘Abstraction of water from the water environment of more than 50m3 per day (not for the purpose of hydro generation) and new associated impoundments’.

Use this form:

* For new impoundments associated with and necessary for this abstraction.
* Where the total volume of impoundment water is less than 25,000m3.
* Where abstracted water will not be used for hydro power generation.
* Where water will be used for only one of the following categories of use:
1. Agricultural irrigation.
2. Agricultural water use.
3. Golf course irrigation.
4. Energy (other than for hydropower).
5. Industrial use (this includes distilleries, brewing, fish production).
6. Public or private water treatment and supply.
7. Other uses (this includes flood prevention, transport infrastructure, conservation or species protection).

If you wish to use water for **more than one category of use**, you must complete and submit a separate activity form for each category.

## Before you apply

* Read the guidance for the water activity you are applying for on the relevant activity specific page on our [website](https://www.sepa.org.uk/easr).
* Where you see the term ‘document reference’, enter the document reference(s) for the information you have provided. These must be submitted along with the completed form.
* For applications made with insufficient or inadequate information; we will return these to the applicant with an explanation of what additional information is required and may retain part of the application fee in accordance with our published charging scheme.

## Multiple activities under a single permit

We may authorise multiple activities under a single permit, but only if the activities are connected. Activities may be considered connected if they are:

* located at the same geographical location,
* part of the same project, or
* operationally linked.

If the activities are connected, you may submit a single application for multiple activitiesunder one permit.

If the activities are not connected, you must submit a separate application for each activity.

## How to apply

**Digital application service:**

The quickest and easiest way to [apply is via our digital application service](https://www.sepa.org.uk/easr) on our website.

You will need to upload:

1. Completed activity form(s)
2. Any required supporting information

**Email/Post application:**

If you cannot apply using our digital application service, you can complete and submit an application via email or by post.

* For **a new permit**, your application must include:
1. A completed APP-GEN1 form
2. Completed activity form(s)
3. Any required supporting information
* For **a variation of a permit**, your application must include:
1. A completed APP-GEN1 form
2. Completed variation form(s)
3. Completed activity form(s) if required
4. Any required supporting information

Email and postal addresses for submitting your application are included in the APP-GEN1 form.

You can download [APP-GEN1, activity forms and variation forms](https://www.sepa.org.uk/easr) from our website.

## Section 1 - Location of the activity

Please provide the following information about the location of the activity.

**Table 1: Location description**

| **Question** | **Answer** |
| --- | --- |
| **Location description** (e.g. Green Farm, Windy Hill Golf Course, Alba Whisky Distillery) |  |
| **Address** |  |
| **Postcode** |  |
| **National Grid Reference (NGR)**(At least 2 letters followed by 8 digits, e.g. AB 1234 6789. You can use our [SEPA NGR Tool](https://map.sepa.org.uk/ngrtool/) to find your NGR.) |  |

## Section 2 - About your proposed activities

### 2.1 Non-technical summary

Please provide a non-technical summary of your application, including:

* A brief overview of the proposed activity.
* A map/diagram or plan of the proposed activity.
* A description of the need and use of the water.
* Whether and where there will be any return of water to the water environment.
* Any limits on the rate, volume or time when water can be abstracted.
* Any mitigation and where it will be delivered.
* Any inter relationships between abstraction points and any associated impoundments.
* Risk and methods to prevent spread of invasive non-native species.

This summary may be published on our website as part of the public consultation process. Ensure it is written in simple and plain language so that all members of the public can clearly understand the details of your application.

| **Document reference** |
| --- |
|  |

###

### 2.2 Protected areas

Use the [NatureScot website map](https://sitelink.nature.scot/map) to check the proximity of your proposed works to any of the following protected area: Site of Special Scientific Interest (SSSI), Special Area of Conservation (SAC) and Special Protection Area (SPA).

#### 2.2.1 Proximity to protected areas

**Question C:** Is there any SSSI, SAC or SPA located less than 500m downstream, or in the catchment upstream, of any proposed impoundment and associated works?

Yes [ ]

No [ ]

**Question B:** Are any proposed groundwater abstractions:

* Less than or equal to 500m3/day and located in, or within 850m of an SSSI, SAC or SPA? or
* More than 500m3/day and located in, or within 1200m of an SSSI, SAC or SPA?

Yes [ ]

No [ ]

**Question A:** Are any proposed surface water abstractions located in, or within 500m of an SSSI, SAC or SPA?

Yes [ ]

No [ ]

* If you answered ‘Yes’ to any of the three questions (A, B, and C), complete the rest of Section 2.2.
* If you answered ‘No’ to all three questions (A, B, and C), go to Section 2.3.

#### 2.2.2 Consultation with NatureScot and impact

Tell us if you have discussed your activity with NatureScot, and provide:

* Details of any mitigation actions you intend to implement to address areas of concern.
* Measures to be implemented to ensure the proposed works and any associated construction works, will have no adverse impact upon the protected area(s).
* All relevant correspondence or consents related to the proposed works and any associated construction works.

| **Document reference** |
| --- |
|  |

#### 2.2.3 Relevant surveys

Please provide any relevant surveys conducted to establish the presence of any designated species and habitat that may be affected by the proposed works and any associated construction works.

| **Document reference** |
| --- |
|  |

#### 2.2.4 Environmental Impact Assessment (EIA)

Is an EIA required for the proposed works?

Yes [ ]

No [ ]

### 2.3 Type of activity

Please select **one** of the boxes below to indicate the type of activity you are applying for, then complete the relevant section(s).

**Abstraction only** [ ] (Complete Section 3)

**Abstraction and associated impoundments**  [ ]

(Complete Sections 3 and 4)

## Section 3 - Abstraction activity

### 3.1 Total cumulative rate of abstraction

Provide the total cumulative maximum volume of water in cubic metres (m3) abstracted from all abstraction locations.

**Table 2: Total cumulative abstraction volumes**

| **Abstraction location**  | **Max volume per hour** (m3) |
| --- | --- |
| **Abstraction location 1** |  |
| **Abstraction location 2** |  |
| **Abstraction location 3** |  |

### 3.2 Operational practices and water efficiency

Please provide the following information:

* Details about your operational practices, water storage methods, conservation measures, and any local factors that explain how you determined the abstraction volumes.
* Information on the steps you have taken or intend to use to demonstrate and ensure the efficient use of water.

| **Document reference** |
| --- |
|  |

### 3.3 Abstraction regime

#### 3.3.1 Annual or intermittent abstraction regime

Please select **one** of the boxes to indicate if you intend to abstract annually or intermittently.

**Annually**  [ ]

(capability to abstract water every year)

**Intermittently** [ ]

(this means that it is predictable in which years you will abstract)

If you are abstracting intermittently, please provide details of the proposed abstraction regime.

| **Document reference** |
| --- |
|  |

#### 3.3.2 Monthly abstraction regime

For each month in which abstraction will take place, please provide the maximum volume of water that will be abstracted in cubic metres (m3).

If no abstraction will take place in a particular month, please insert “zero” for that month.

**Table 3: Monthly and maximum volume of water abstracted**

| **Month**  | **Volume** (m3) |
| --- | --- |
| **January** |  |
| **February** |  |
| **March** |  |
| **April** |  |
| **May** |  |
| **June** |  |
| **July** |  |
| **August** |  |
| **September** |  |
| **October** |  |
| **November** |  |
| **December** |  |

### 3.4 Abstraction and return locations

#### 3.4.1 Abstraction locations

Please provide National Grid References (NGR) for the abstraction location(s).

You can use our [SEPA NGR Tool](https://map.sepa.org.uk/ngrtool/) to find the NGR. The NGR should be in one of these formats:

* 2 letters followed by 10 digits (e.g. AB 12345 67890)
* 2 letters followed by 8 digits (e.g. AB 1234 6789)

If the abstraction is from a single point, please complete Section 3.4.1(a).

If the abstraction is from a stretch of a watercourse, please complete Section 3.4.1(b).

**3.4.1(a) Single point**

Please provide abstraction details and an NGR for each abstraction location. Complete a table for each abstraction location.

You can include details for up to two single point abstraction locations in this section. Additional single point abstraction locations can be provided in Annex 1 – Section A1-1.

**Table 4: Point 1- NGR and abstraction details**

| **Question** | **Answer** |
| --- | --- |
| **Name of watercourse or loch or borehole reference** (where applicable) |  |
| **NGR point** |  |
| **Maximum rate of abstraction per second** (litres/sec) |  |
| **Maximum rate of abstraction per day** (m3/day) |  |
| **Maximum rate of abstraction per year** (m3/day) |  |
| **Method of abstraction** (e.g. fixed pipe, side intake, pumped from a borehole, gravity fed from a spring chamber)  |  |

**Table 5: Point 2 - NGR and abstraction details**

| **Question** | **Answer** |
| --- | --- |
| **Name of watercourse or loch or borehole reference** (where applicable) |  |
| **NGR point** |  |
| **Maximum rate of abstraction per second** (litres/sec) |  |
| **Maximum rate of abstraction per day** (m3/day) |  |
| **Maximum rate of abstraction per year** (m3/day) |  |
| **Method of abstraction** (e.g. fixed pipe, side intake, pumped from a borehole, gravity fed from a spring chamber)  |  |

**3.4.1(b) Stretch of watercourse**

Please provide abstraction details and the NGRs of the upstream and downstream points of each stretch.Complete a table for stretch of watercourse.

You can include details for up to two stretches of watercourses in this section. Additional stretches of watercourses can be provided in Annex 1 – Section A1-2.

**Table 6: Stretch 1 - NGRs and abstraction details**

| **Question** | **Answer** |
| --- | --- |
| **Name of watercourse** |  |
| **Upstream NGR point** |  |
| **Downstream NGR point** |  |
| **Maximum rate of abstraction per second** (litres/sec) |  |
| **Maximum rate of abstraction per day** (m3/day)  |  |
| **Maximum rate of abstraction per year** (m3/day) |  |
| **Method of abstraction** (eg. mobile unit)  |  |

**Table 7: Stretch 2 - NGRs and abstraction details**

| **Question** | **Answer** |
| --- | --- |
| **Name of watercourse** |  |
| **Upstream NGR point** |  |
| **Downstream NGR point** |  |
| **Maximum rate of abstraction per second** (litres/sec) |  |
| **Maximum rate of abstraction per day** (m3/day)  |  |
| **Maximum rate of abstraction per year** (m3/day) |  |
| **Method of abstraction** (eg. mobile unit)  |  |

#### 3.4.2 Return location

When abstracted water is returned to the water environment at a specific point, please provide details and an NGR of the return location.

**Table 8: Return location details**

| **Question** | **Answer** |
| --- | --- |
| **Name of watercourse or loch** |  |
| **NGR**  |  |
| **Type of return** (e.g. fixed pipe, spillway, cooling water return) |  |
| **Will the return have a screen?** (Yes/No) |   |
| **Volume per day** (m3/day) |  |
| **Percentage of total abstracted water that will be returned at this location** |  |

Please provide a full description of the return structure, including plans and cross sections.

| **Document reference** |
| --- |
|  |

### 3.5 Type of abstraction

#### 3.5.1 Abstraction of water from surface water

If you are applying to abstract water from surface water (e.g. river, burn or loch), please provide:

* A full description of any proposals to construct or alter any surface water intake structure, including plans and cross sections, where relevant.

| **Document reference** |
| --- |
|  |

* Method statements describing the method and controls of construction or alteration for any surface water intake structure.

| **Document reference** |
| --- |
|  |

#### 3.5.2 Abstraction of water from groundwater

If you are applying to abstract water from groundwater (e.g. from a borehole or well), please provide calculations to demonstrate how much of the abstracted water is groundwater.

If you are dewatering from a sump, you can discount any rainwater collected in the sump from your abstraction volume.

Please refer to our guidance for detailed instructions on how to do this.

| **Document reference** |
| --- |
|  |

#### 3.5.2(a) Water Features Survey (WFS) and map

You must conduct a Water Feature Survey (WFS). The WFS map must:

* Be based on an Ordnance Survey basemap (1:10,000 scale) with the location of all water features plotted on it. For example, surface waters, abstractions, groundwater dependent terrestrial ecosystems or areas of poor-quality groundwater.
* Include a report or database summarising the details of each water feature identified including a 10-figure NGR of its location. Please provide photographs of each water feature.

Our guidance provides further details on the information you need to supply.

| **Water Feature Survey reference**  |
| --- |
|  |

#### 3.5.2(b) Abstraction of groundwater from a borehole or well

Where water is abstracted from a borehole or a well, please provide a cross-sectional drawing of the abstraction borehole(s) and the surrounding strata.

The drawing(s) must clearly identify:

* The locations and depths of any solid casing.
* The location and depth of any slotted casing.
* The depth of the borehole.
* The types of the strata surrounding the borehole and the depth of any change in strata.  For example, 0-3 m below ground level sand and gravel, 3-7m below ground level clay.

Drawings must be clear and easy to read on an A4 page, avoiding unnecessary details.

Each drawing must include a defined scale, the date it was created, and version number.

| **Drawing reference(s)**  |
| --- |
|  |

#### 3.5.2(c) Assessing the risks to any water features

If your water feature survey identifies any water features, you may need to demonstrate the impact of your abstraction on them. This may include test pumping data, information on water levels, and water flow monitoring. Please provide this supporting information.

Pre-application discussion with us, along with our guidance, will help you identify what information is required.

| **Document reference**  |
| --- |
|  |

### 3.6 Management agreements

Where there is a management agreement in place controlling the operation of any abstractions, please provide a copy of the agreement.

| **Document reference**  |
| --- |
|  |

### 3.7 Measuring abstraction volumes

Please provide information on how the volume of water abstracted will be measured at each abstraction location.

| **Document reference**  |
| --- |
|  |

### 3.8 Invasive non-native species (INNS)

For mobile abstraction units, or when raw water is transferred between catchments, please provide details on actions that you will take to prevent the introduction and spread of INNS in the water environment.

| **Document reference**  |
| --- |
|  |

### 3.9 Category of use

Please select **one** of the boxes below to indicate the intended use of the abstracted water and then complete the relevant section.

**Important**: If you wish to use water for more than one category of use, you must complete and submit a separate application for each category.

* **Agricultural irrigation** [ ]  Please complete Section 3.9.1
* **Agricultural water use** [ ]

Please complete Section 3.9.2

* **Golf course irrigation**  [ ]

Please complete Section 3.9.3

* **Energy** (other than for hydropower) [ ]

Please complete Section 3.9.4

* **Industrial use** (e.g. distilleries, brewing, fish production) [ ]  Please complete Section 3.9.5
* **Public or private water treatment and supply** [ ]  Please complete Section 3.9.6
* **Other uses not described above** [ ]

(e.g. flood prevention, transport infrastructure, conservation or species protection)

Please complete Section 3.9.7

#### 3.9.1 Agricultural irrigation

**3.9.1(a) Crop type**

Please provide details of the crops to be irrigated in Table 9. You should provide information for the likely combination of crop areas reflecting the maximum demand in one year.

For each crop, specify the maximum area and the maximum depth of water that will be applied.

**Table** **9: Crop type, area and depth of water applied**

| **Crop type**  | **Maximum area of crop typically irrigated in any year** (hectares) | **Maximum depth of water applied per year** (mm) |
| --- | --- | --- |
| **Main crop potatoes**  |  |  |
| **Early potatoes**  |  |  |
| **Broccoli** |  |  |
| **Brussel sprouts**  |  |  |
| **Cabbage**  |  |  |
| **Carrots** |  |  |
| **Cauliflower** |  |  |
| **Onions**  |  |  |
| **Parsnips** |  |  |
| **Peas**  |  |  |
| **Runner Beans**  |  |  |
| **Lettuce** |  |  |
| **Salad onions**  |  |  |
| **Apples**  |  |  |
| **Strawberries**  |  |  |
| **Raspberries**  |  |  |
| **Blackcurrants**  |  |  |
| **Grazed grass** |  |  |
| **Spring cereals**  |  |  |
| **Other** - please specify: |  |  |

**3.9.1(b) Soil type**

For the farm unit, please provide the areas for each soil type in Table 10.

If there is more than one soil type, please provide the approximate areas for each main type.

**Table 10: Soil type and area**

| **Soil type**  | **Area** (hectares) |
| --- | --- |
| **Coarse sand** |  |
| **Loamy coarse sand** |  |
| **Coarse sandy loam** |  |
| **Sand**  |  |
| **Loamy sand**  |  |
| **Fine sand**  |  |
| **Loamy fine sand**  |  |
| **Clay**  |  |
| **Sandy clay**  |  |
| **Silty clay**  |  |
| **Clay loam**  |  |
| **Sandy loam**  |  |
| **Sandy clay loam**  |  |
| **Silty clay loam** |  |
| **Fine sandy loam** |  |
| **Loam** |  |
| **Very fine sand**  |  |
| **Loamy very fine sand**  |  |
| **Very fine sandy loam**  |  |
| **Silty loam**  |  |
| **Peaty soils**  |  |
| **Other** -please specify: |  |

#### 3.9.2 Agricultural water use

**3.9.2(a) Livestock**

Please provide details for each type of livestock, including the maximum number of animals and the maximum volume of water per day (m3/day) in Table 11.

**Table 11: Type of livestock, numbers and volume of water required**

| **Livestock type**  | **Maximum number of animals**  | **Maximum volume of water per day (m3/day)**  |
| --- | --- | --- |
| **Dairy cows** |  |  |
| **Beef cattle**  |  |  |
| **Pigs**  |  |  |
| **Poultry**  |  |  |
| **Sheep**  |  |  |
| **Other** -please specify: |  |  |

Please provide any additional information on diet provisions, housing requirements which may influence abstraction rates.

| **Document reference**  |
| --- |
|  |

**3.9.2(b) Washing and cleaning**

Please provide the maximum volume of water per day (m3/day) used for each type of equipment, in Table 12.

**Table 12: Type of equipment and volume**

| **Equipment**  | **Maximum volume of water per day (m3/day)**  |
| --- | --- |
| **Power hose**  |  |
| **Non-power hose**  |  |

Please provide any additional information which may influence water use.

| **Document reference**  |
| --- |
|  |

####

#### 3.9.3 Golf course irrigation

Please provide details of the golf course features to be irrigated, including the maximum area and maximum depth of water applied to each feature per year and per day in Table 13.

**Table 13: Golf course features and areas**

| **Feature**  | **Maximum area to be irrigated per year**(hectares) | **Maximum depth of water applied per year** (mm) | **Maximum area to be irrigated per day** (hectares) | **Maximum depth of water applied per day** (mm) |
| --- | --- | --- | --- | --- |
| **Tees** |  |  |  |  |
| **Greens**  |  |  |  |  |
| **Fairways** |  |  |  |  |
| **Other** -please specify: |  |  |  |  |

#### 3.9.4 Energy (other than for hydro power)

Please provide details on the purpose of the water use (e.g. for hydrogen production, for a water source heat pump).

| **Water use**  |
| --- |
|  |

For water source heat pump, provide the temperature of the water before it is returned to the water environment.

| **Temperature of returning water** (°C) |
| --- |
|  |

#### 3.9.5 Industrial use

For each type of industry, please provide the volume of water used per unit of production or output and the maximum number of units in Table 14.

**Table 14: Type of industry and volume of water**

| **Type of industry**  | **Volume of water use per unit of production or output** (m3) | **Maximum number of units per year** |
| --- | --- | --- |
| **Brewing**  |  |  |
| **Distilleries**  |  |  |
| **Fish farming**  |  |  |
| **Fish processing**  |  |  |
| **Leisure parks** |  |  |
| **Public services**  |  |  |
| **Other** -please specify: |  |  |

####

#### 3.9.6 Public or private water treatment and supply

**3.9.6(a) Public water treatment and supply**

**Nature of the abstraction**

Please provide details on the nature of the abstraction (e.g. direct into water treatment and supply, raw water storage or river basin transfer of water).

| **Nature of the abstraction**  |
| --- |
|  |

**Population to be supplied**

Please provide the total population to be supplied:

| **Total population to be supplied**  |
| --- |
|  |

**Water supply category**

Please indicate in which categories the water supply will be used for in Table 15.

Provide the percentage of the water that will be used for each different category.

If a category is not relevant, please insert “zero” for that category.

**Table 15: Water supply category and percentage of use**

| **Water supply category** | **Percentage** (%) |
| --- | --- |
| **Domestic**  |  |
| **Industrial**  |  |
| **Agricultural**  |  |
| **Other** (this includes hospitals, schools, prisons or hotels) |  |

**Name of the water resource zone**

For public water supplies, please provide the name of the water resource zone to be supplied.

| **Water resource zone**  |
| --- |
|  |

**Water resources planning**

Please also provide details of relevant water resources planning and any other documents relating to this scheme. If the scheme departs from these plans, give the reasons for this.

Include details of any other current proposals which could have a bearing on the outcome of this application.

| **Document reference** |
| --- |
|  |

**3.9.6(b) Private water treatment and supply**

**Nature of the water supply**

Please provide details on the nature of the water supply (e.g. domestic, agriculture, hospital).

| **Nature of water supply**  |
| --- |
|  |

**Population to be supplied**

Please provide the total population to be supplied:

| **Total population to be supplied**  |
| --- |
|  |

**Number of domestic properties**

For domestic water supplies, please provide the number of properties that will be served.

| **Number of domestic properties**  |
| --- |
|  |

**Maximum number of people for hospitals, schools, prisons or hotels**

For hospitals, schools, prisons or hotels, please provide details of the maximum number of people in one year for each property in Table 16.

**Table 16: Maximum occupancy**

| **Property**  |  **Maximum annual number of people per year** |
| --- | --- |
| **Hospital**  |  |
| **School**  |  |
| **Prison**  |  |
| **Hotel**  |  |

#### 3.9.7 Other water uses

If the water will be used for other purposes such as flood prevention, transport infrastructure, conservation, or species protection, please provide details, including the purpose of abstraction, operating regime including timings, triggers for operation, storage, etc.

| **Document reference** |
| --- |
|  |

## Section 4 - Impoundment

You can use this form to apply for new impoundments that are associated with, and necessary for, an abstraction activity and the total volume of impounded water is less than 25,000m3.

### 4.1 Impoundment locations and details

Please provide details of each impoundment location. You can use our [SEPA NGR Tool](https://map.sepa.org.uk/ngrtool/) to find the National Grid Reference (NGR).

The NGR should be in one of these formats:

* 2 letters followed by 10 digits (e.g. AB 12345 67890)
* 2 letters followed by 8 digits (e.g. AB 1234 6789)

Complete a table for each impoundment. You can include details for up to two impoundments in this section. Additional impoundments can be provided in Annex 2.

**Table 17: Impoundment 1 details and location**

| **Question** | **Answer** |
| --- | --- |
| **Name of watercourse or loch**  |  |
| **NGR**  |  |
| **Maximum height of impoundment** (m) |  |
| **Total volume of impounded water** (m3) |  |
| **Level of the overflow or crest of the impoundment** (metres AOD)(where this is different to the height of the impoundment structure) |  |
| **Minimum draw-off level** (metres AOD)(where there is a means of drawing the impounded water down) |  |

**Table 18: Impoundment 2 details and location**

| **Question** | **Answer** |
| --- | --- |
| **Name of watercourse or loch**  |  |
| **NGR**  |  |
| **Maximum height of impoundment** (m) |  |
| **Total volume of impounded water** (m3) |  |
| **Level of the overflow or crest of the impoundment** (metres AOD)(where this is different to the height of the impoundment structure) |  |
| **Minimum draw-off level** (metres AOD)(where there is a means of drawing the impounded water down) |  |

### 4.2 Drawings

Please provide drawings that include a plan view, cross section and long section of each impoundment. The drawings must include:

1. All dimensions of the impoundment.
2. The channel width and slope.
3. Details of the bed material.
4. Indicative water levels at high (i.e. Q10) and low flows (i.e. Q90) (as a minimum).

If relevant, drawings must also include details of:

1. Screens.
2. Scour values.
3. Mitigation structures (including orifices, V-notches or spillways).
4. Plunge pools.
5. Fish pass.

The drawings must be clear and easy to read on an A4 page, avoiding unnecessary details.

The drawings must include a defined scale, the date it was created, and version number.

| **Drawing reference(s)** |
| --- |
|  |

### 4.3 Fish migration

Please provide details of any fish pass designs, plunge pool details, fish habitat surveys, fish migration measures and fish protection mitigation. This must include:

* The fish species and life stages for which passage is being provided and over what flow ranges.
* Details of any fish pass to be installed to provide upstream and downstream passage.
* Details of any associated screens, flow management measures and/or sediment management features linked to the impoundment.

| **Document reference** |
| --- |
|  |

### 4.4 Construction works

#### 4.4.1 Timing of works

Will the activity and any associated construction works take place between 1 October to 31 May?

Yes [ ]

No [ ]

If ‘Yes’, please proceed to Section 4.4.2.

If ‘No’, please proceed to Section 4.5.

####

#### 4.4.2 Type of construction works

If you have answered ‘Yes’ in Section 4.4.1, please select all of the type of construction works boxes that apply:

* Working in the wetted part of a watercourse or loch [ ]
* Machinery entering the watercourse (including for access) [ ]
* Installing a temporary crossing [ ]
* Full or partial isolation of the channel [ ]
* Temporary diversion or over pumping [ ]
* Blasting/vibration or impact piling [ ]
* Using artificial lighting at night [ ]

#### 4.4.3 Risk to fish and fish spawning

If you selected any of the boxes in Section 4.4.2, you must submit a report which assesses the risk to fish and fish spawning. Read our [guidance on protecting fish](https://www.sepa.org.uk/easr) for more information.

| **Document reference** |
| --- |
|  |

### 4.5 Mitigation

Please provide details of all proposed mitigation to minimise the impact of the works on the water environment. This includes details on the timing, methods and controls for the proposed works and all associated construction works. Please provide any details on fish habitat surveys, fish migration measures and fish protection mitigation.

| **Document reference** |
| --- |
|  |

### 4.6 Sediment management

Please provide information on how sediment will be managed at each impoundment, what operational practices will be carried out and how often.

| **Document reference** |
| --- |
|  |

### 4.7 Operating regime

Please provide information on the operation of each impoundment. This includes volumes of compensation flows, freshet volumes and times of release, periods of drawdown, frequency of water level fluctuations and increased inundation or habitat loss.

| **Document reference** |
| --- |
|  |

### 4.8 Maintenance

Please provide information on maintenance of each impoundment. This includes operation of scour valves, debris clearance, fish pass maintenance and any other maintenance that may impact the water environment.

| **Document reference** |
| --- |
|  |

## Annex 1 - Additional abstraction locations

#### A1-1 Single point

Provide abstraction details and an NGR for each abstraction location. Complete a table for each abstraction location. Please copy and add additional tables as necessary.

**Table A1-1(a): Point 3- NGR and abstraction details**

| **Question** | **Answer** |
| --- | --- |
| **Name of watercourse or loch or borehole reference** (where applicable) |  |
| **NGR point** |  |
| **Maximum rate of abstraction per second** (litres/sec) |  |
| **Maximum rate of abstraction per day** (m3/day) |  |
| **Maximum rate of abstraction per year** (m3/day) |  |
| **Method of abstraction** (e.g. fixed pipe, side intake, pumped from a borehole, gravity fed from a spring chamber)  |  |

**Table A1-1(b): Point 4 - NGR and abstraction details**

| **Question** | **Answer** |
| --- | --- |
| **Name of watercourse or loch or borehole reference** (where applicable) |  |
| **NGR point** |  |
| **Maximum rate of abstraction per second** (litres/sec) |  |
| **Maximum rate of abstraction per day** (m3/day) |  |
| **Maximum rate of abstraction per year** (m3/day) |  |
| **Method of abstraction** (e.g. fixed pipe, side intake, pumped from a borehole, gravity fed from a spring chamber)  |  |

#### A1-2 Stretch of watercourse

Provide abstraction details and the NGRs of the upstream and downstream points of each stretch.Complete a table for stretch of watercourse.

Please copy and add additional tables as necessary.

**Table A1-2(a): Stretch 3 - NGRs and abstraction details**

| **Question** | **Answer** |
| --- | --- |
| **Name of watercourse** |  |
| **Upstream NGR point** |  |
| **Downstream NGR point** |  |
| **Maximum rate of abstraction per second** (litres/sec) |  |
| **Maximum rate of abstraction per day** (m3/day)  |  |
| **Maximum rate of abstraction per year** (m3/day) |  |
| **Method of abstraction** (eg. mobile unit)  |  |

**Table A1-2(b): Stretch 4 - NGRs and abstraction details**

| **Question** | **Answer** |
| --- | --- |
| **Name of watercourse** |  |
| **Upstream NGR point** |  |
| **Downstream NGR point** |  |
| **Maximum rate of abstraction per second** (litres/sec) |  |
| **Maximum rate of abstraction per day** (m3/day)  |  |
| **Maximum rate of abstraction per year** (m3/day) |  |
| **Method of abstraction** (eg. mobile unit)  |  |

## Annex 2 - Additional impoundment locations

Provide details of each additional impoundment location. Complete a table for each impoundment. Please copy and add additional tables as needed.

**Table A2(a): Impoundment 3 details and location**

| **Question** | **Answer** |
| --- | --- |
| **Name of watercourse or loch**  |  |
| **NGR**  |  |
| **Maximum height of impoundment** (m) |  |
| **Total volume of impounded water** (m3) |  |
| **Level of the overflow or crest of the impoundment** (metres AOD)(if different from height of the impoundment structure) |  |
| **Minimum draw-off level** (metres AOD)(if there is a means of drawing the impounded water down) |  |

**Table A2(b): Impoundment 4 details and location**

| **Question** | **Answer** |
| --- | --- |
| **Name of watercourse or loch**  |  |
| **NGR**  |  |
| **Maximum height of impoundment** (m) |  |
| **Total volume of impounded water** (m3) |  |
| **Level of the overflow or crest of the impoundment** (metres AOD)(if different from height of the impoundment structure) |  |
| **Minimum draw-off level** (metres AOD)(if there is a means of drawing the impounded water down) |  |