



**Cyfoeth  
Naturiol**  
Cymru  
**Natural  
Resources**  
Wales

## **Permit with introductory note**

The Environmental Permitting (England & Wales) Regulations 2016

---

Snowdonia Pumped Hydro Limited

Glyn Rhonwy Pumped Hydro Storage  
Facility

Glyn Rhonwy former slate quarries

Cefn Du

Llanberis

Permit number

EPR/AB3392CJ

# Glyn Rhonwy Pumped Hydro Storage Facility

## Permit Number EPR/AB3392CJ

### Introductory note

#### This introductory note does not form a part of the permit

The main features of the permit are as follows.

To allow construction of the hydroelectric storage facility, two quarries at Glyn Rhonwy will need to be fully dewatered. The water from Quarry 1 (Q1) will discharge to the Nant y Betws at SH 55110 59660, and the water from (Quarry 6) Q6 will discharge to Llyn Padarn at SH 57290 61190.

Q1 holds 5,000m<sup>3</sup> of water, and releases of water will be pumped at a maximum rate of 0.6m<sup>3</sup>/second. Groundwater/water from the lower strata of Q1 will pass through a settlement system or sediment trap prior to reaching the watercourse.

Q6 holds approx 50,000m<sup>3</sup> of water. The application states a maximum discharge at a rate of 1000l/s. Due to the amount of spoil that could be saturated, the volume has been doubled to represent a worst case scenario of 100,000m<sup>3</sup>. The full volume of water will require removing to allow for construction activity. Q6 has the potential to contain unexploded ordnance.

The permit is effective as of 06/01/2017.

The status log of the permit sets out the permitting history, including any changes to the permit reference number.

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application EPR/AB3392CJ	Duly made 08/09/2016	Application for discharge of trade effluent consisting of site drainage.
Permit determined	06/01/2016	Permit issued to Snowdonia Pumped Hydro Limited

End of introductory note

# Permit

The Environmental Permitting (England and Wales) Regulations 2016

**Permit number**

EPR/AB3392CJ

The Natural Resources Body for Wales (“Natural Resources Wales”) authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

**Snowdonia Pumped Hydro Limited** (“the operator”),  
whose registered office is

**c/o Stephenson Harwood**  
**1 Finsbury Circus**  
**London**  
**EC2M 7SH**

company registration number: **08644844**

to operate a water discharge activity at

**Glyn Rhonwy Pumped Hydro Storage Facility**  
**Glyn Rhonwy former slate quarries**  
**Cefn Du**  
**Llanberis**

to the extent authorised by and subject to the conditions of this permit.

Name	Date
<b>Emily Roe</b>	<b>06/01/2016</b>

Authorised on behalf of Natural Resources Wales

# Conditions

## 1 Management

### 1.1 General management

1.1.1 The operator shall manage and operate the activities:

- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

## 2 Operations

### 2.1 Permitted activities

2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

### 2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green and the discharges shall be made at the points marked on the site plan at schedule 7 to this permit and as listed in table S3.2 (discharge points).

### 2.3 Operating techniques

2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.

- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

## **3 Emissions and monitoring**

### **3.1 Emissions to water**

- 3.1.1 There shall be no point source emissions to water except from the sources and emission points listed in schedule 3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.

### **3.2 Emissions of substances not controlled by emission limits**

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
  - (a) if notified by Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
  - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

### **3.3 Monitoring**

- 3.3.1 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2 and S3.3 unless otherwise agreed in writing by Natural Resources Wales.

## 4 Information

### 4.1 Records

- 4.1.1 All records required to be made by this permit shall:
- (a) be legible;
  - (b) be made as soon as reasonably practicable;
  - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
  - (d) be retained, unless otherwise agreed in writing by Natural Resources Wales, for at least 6 years from the date when the records were made.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by Natural Resources Wales.

### 4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.

### 4.3 Notifications

- 4.3.1 Natural Resources Wales shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
  - (b) the breach of a limit specified in the permit; or
  - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and

- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) Natural Resources Wales shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

## **4.4 Interpretation**

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.

# Schedule 1 - Operations

<b>Table S1.1 Activities</b>		
<b>Activity reference</b>	<b>Description of activity</b>	<b>Limits of specified activity</b>
A1	Discharge of trade effluent consisting of excavated groundwater and surface water run off from Q1 via outlet 1	N/A
A2	Discharge of trade effluent consisting of excavated groundwater and surface water run off from Q6 via outlet 2	N/A

<b>Table S1.2 Operating techniques</b>			
<b>Activity reference</b>	<b>Description of documentation</b>	<b>Parts</b>	<b>Date Received</b>
A1 & A2	Application	<ul style="list-style-type: none"> <li>• Part A</li> <li>• Part B2</li> <li>• Part B6</li> <li>• Part F2</li> </ul>	08/09/2016
	Supporting documents and plans	<ul style="list-style-type: none"> <li>• App B Nant y Betws Flood Risk</li> <li>• App C Water Management Plan</li> <li>• App D Silt Management Plan</li> <li>• App E Dewatering Environment Management System</li> <li>• App F Habitats Risk Assessment</li> <li>• App G Risk Assessment</li> <li>• App H H1 Assessment</li> <li>• App I WFD Addendum</li> <li>• App J Biosecurity</li> <li>• App L Code of Construction Practice</li> <li>• App M Ordnance Management Strategy</li> </ul>	08/09/2016

## **Schedule 2 - Waste types, raw materials and fuels**

Wastes are not accepted as part of the permitted activities and there are no restrictions on raw materials or fuels under this schedule.

## Schedule 3 – Emissions and monitoring

<b>Table S3.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements</b>						
<b>Discharge source and discharge point ref. &amp; location</b>	<b>Parameter</b>	<b>Limit (including unit)</b>	<b>Reference Period</b>	<b>Limit of effective range</b>	<b>Monitoring frequency</b>	<b>Compliance Statistic</b>
Trade effluent consisting of excavated groundwater and surface water via outlet 1	Suspended solids (measured after drying at 105° C)	50 mg/l	Instantaneous (spot sample)	N/A	N/A	Maximum
	pH	6 to 9	Instantaneous (spot sample)	N/A	N/A	Minimum and maximum
	Visible oil or grease	No significant trace present	Instantaneous (spot sample)	N/A	N/A	No significant trace
Trade effluent consisting of excavated groundwater and surface water via outlet 2	Suspended solids (measured after drying at 105° C)	50 mg/l	Instantaneous (spot sample)	N/A	N/A	Maximum
	pH	6 to 9	Instantaneous (spot sample)	N/A	N/A	Minimum and maximum
	Visible oil or grease	No significant trace present	Instantaneous (spot sample)	N/A	N/A	No significant trace

<b>Table S3.2 Discharge points</b>			
<b>Effluent Name</b>	<b>Discharge Point</b>	<b>Discharge point NGR</b>	<b>Receiving water/Environment</b>
Trade effluent consisting of excavated groundwater and surface water	Outlet 1	SH 55110 59660	Nant y Betws
Trade effluent consisting of excavated groundwater and surface water	Outlet 2	SH 57290 61190	Llyn Padarn

<b>Table S3.3 Monitoring points</b>			
<b>Effluent(s) and discharge point(s)</b>	<b>Monitoring type</b>	<b>Monitoring point NGR</b>	<b>Monitoring point reference</b>
Trade effluent consisting of excavated groundwater and surface water via outlet 1	Effluent sample point	SH 55105 59937	Q1
Trade effluent consisting of excavated groundwater and surface water via outlet 2	Effluent sample point	SH 56766 60993	Q6

## Schedule 4 – Reporting

There is no reporting under this schedule.

# Schedule 5 - Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

## Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

**(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution**

**To be notified within 24 hours of detection**

Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

**(b) Notification requirements for the breach of a limit**

**To be notified within 24 hours of detection unless otherwise specified below**

Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

**Part B - to be submitted as soon as practicable**

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

<b>Name*</b>	
<b>Post</b>	
<b>Signature</b>	
<b>Date</b>	

\* authorised to sign on behalf of the operator

## Schedule 6 - Interpretation

“accident” means an accident that may result in pollution.

“annually” means once every year.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, which are not controlled by an emission or background concentration limit.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

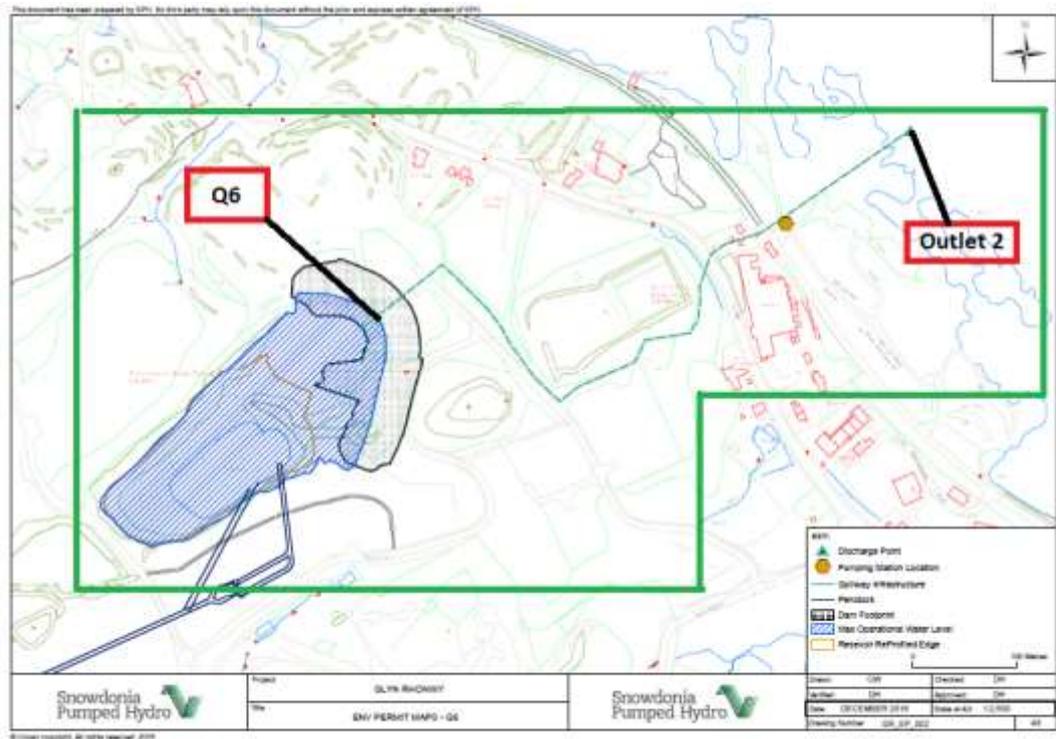
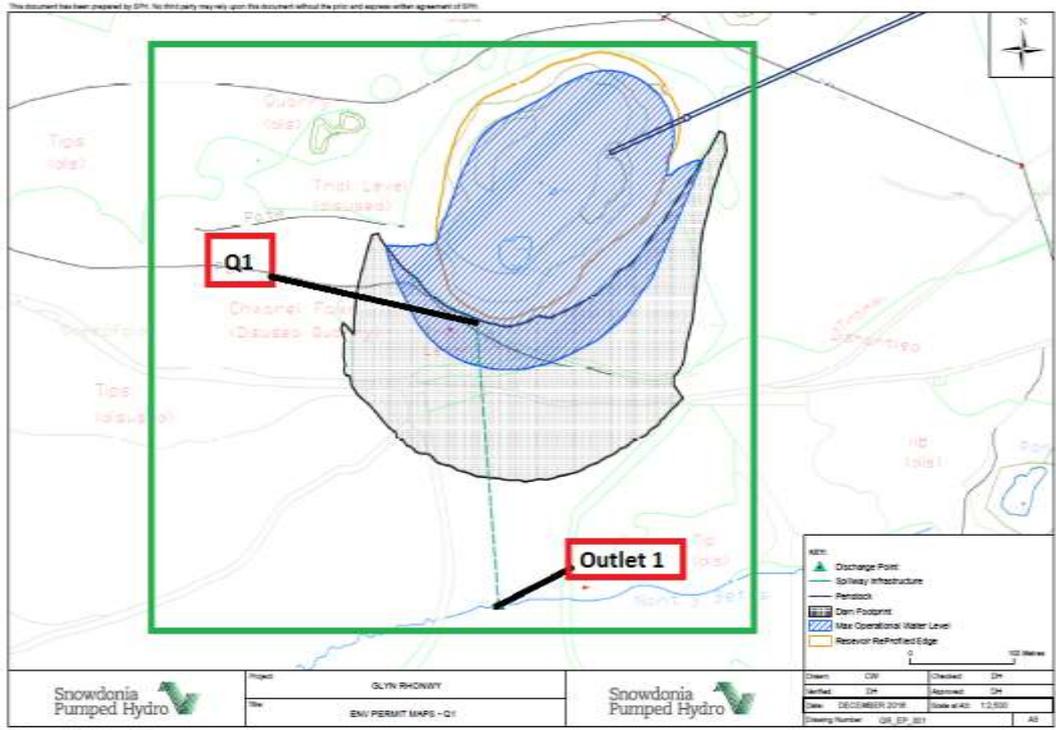
“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“Natural Resources Wales” means the Natural Resources Body for Wales established by article 3 of the Natural Resources Body for Wales (Establishment) Order 2012. The Natural Resources Body for Wales (Functions) Order 2013 transferred the relevant functions of the Countryside Council for Wales, and functions of the Environment Agency and the Forestry Commission in Wales to the Natural Resources Body for Wales.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“year” means calendar year ending 31 December.

# Schedule 7 - Site plan



© Crown Copyright and database right 2017. Ordnance Survey licence number 100019741.

END OF PERMIT