

Form WRD: Application for a new abstraction licence or a technical variation to an abstraction licence

Application type

Reference number (The number you generated in form WRA). Example:
WRNATURALRESOURCESWALES1101

WRHEIDELBERG0305

Are there any applications currently being assessed by us that are linked to this application?

No

Is the proposed abstraction going to be aggregated with another existing abstraction?

No

Are any applications, at the same site; being assessed by the Environment Agency?

No

Abstraction details

Abstraction location name/reference

Quarry Void Dewatering

Abstraction point type

Area

National Grid Reference

SH 96955 75631

Downstream National Grid Reference (If abstracting from a reach), or corners of the area.

SH 96955 75631
SH 97274 75397
SH 96800 74743
SH 96583 75098

Do you have any further points of abstraction?

No

Means of abstraction

Provide full details of the equipment you propose to use to abstract water, such as maximum pump capacity and any relevant dimensions, e.g. pipe diameter. For groundwater abstractions, include details about the borehole (depth and diameter) and details of screening and lining.

Groundwater inflow and incident rainfall will be directed to a sump at the base of the quarry void. Water will be pumped from the sump and out of the quarry void using a 6 inch pump. Water would then flow under gravity through pipes via the conveyor tunnel to the plant area where it would be discharged offsite to the Nant Ddu via a new discharge location. A concrete headwall and scour protection will be installed at the discharge location.

If necessary, continue on a separate sheet and upload below.

- File: 3047_TL_01 V3 Proposed Water management.pdf - [Download](#)

Abstraction quantities

Abstraction location name/reference

Quarry Void Dewatering

What purpose will the water be used for?

Dewatering

Period of abstraction Will it be all year?

Yes

Maximum quantities (cubic metres)

Annual 700,000

Daily 5,184

Hourly 216

Peak abstraction rate (in litres per second)

60

Number of hours of abstraction per day

24

Add quantities for another location?

No

Calculations and supporting information

Use this section to show us how you have calculated the amount of water you require. This should include details of your operational regime (for example, number of hours and days you intend to abstract, number of units produced or area to be irrigated). We use this information to determine if the volumes you propose to abstract are appropriate for the purpose. Depending which industry you are in, you may need to provide additional information below.

If your proposal involves the provision of a residual flow via a notch or orifice, provide information on how this is being calculated. This should include details of the equation being used.

Details of how the required abstraction volumes have been calculated are provided within Section 3 of the attached supporting information and calculations are provided in Appendix 3047/HIA/A6 of the Hydrogeological Impact Assessment appended to it.

Additional document. (Spreadsheet file formats need to be: .xls, .xlsx, or .ods)

- File: 3047_TL Supporting info (Apr 24) reduced.pdf - [Download](#)

Means of measurement

State how you intend to measure the quantity of water you abstract. You do not need to do this for a temporary or transfer licence.

Meter

Water efficiency

Provide details of what measures you provide or intend to implement, to ensure efficient use of water. This could include water storage, re-use or recirculation, monitoring and checking for leaks, undertaking water audits or other industry specific good practice.

Pipework will be regularly inspected for leaks to ensure that there is no loss of water from the system. Abstracted water would be discharged directly to surface water without intervening use. Metering of the abstraction would be undertaken.

Discharge details

If you intend to return any of the abstracted water to the environment, provide details below. Details of discharge location(s) should correspond with any maps submitted. Do not include discharges to a public sewage system.

	Discharge location name / reference	National Grid Reference of discharge point (12 digit)	Total volume to be discharged (cubic metres)	Environmental Permit for Water Discharge Activity number (if applicable)
	Quarry Void Discharge	SH 96882 76208	700,000 m3/yr	CG0320601
	-	-	-	-
	-	-	-	-
	-	-	-	-

Provide a description of the structure and equipment involved in discharge.

Water would flow under gravity after being pumped from the quarry void through pipes via the conveyor tunnel to the plant area where it would be discharged offsite to the Nant Ddu. A concrete headwall and scour protection will be installed at the discharge location.

Other abstractors / water users

Provide details of nearby abstractors or users of water who could be affected by your proposal. This should include deregulated users (exempt activities or abstractions < 20 cubic metres per day), anglers and canoeists. Your local authority's environmental health will hold details of exempt domestic abstractors.

See HIA within the supporting information document attached in the section above.

Planning application

Have you sought advice on your planning application?

No

Declaration

By signing below, you are declaring that, to the best of your knowledge; the information given in this form, on any map and in any supporting or additional information; is true.

Signed D Ryan
Print name David Ryan
position Geology Manager

If an agent is to sign on behalf of the Licence Holder, a letter of authorisation from the Licence Holder is required.

- File: EA - Hanson UK authorised signatories 2023.11.27(589025.3).pdf - [Download](#)

Date

* 03/05/2024

Would you like a copy of your submission?

Yes

Your email address

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