

Apply to renew or change an abstraction or impoundment licence (WRI)

Type of variation/renewal

Indicate the change(s) you wish to make to your licence(s) here.

Different terms renewal (Where the change is a reduction. Meaning a reduction in volumes or removal of a point/purpose and associated volumes)

The licence(s) you want to change/renew

Provide the licence serial number(s) which the proposed change/renewal relates to

WA/060/0001/0034

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Application fee

Please indicate how you wish to pay your application fee. If paying by BACS, please quote the reference number created when setting up the bank transfer.

If paying by cheque, please ensure you add the six digit cheque number below.

Credit or debit card

Is this proposal as a result of a Restoring Sustainable Abstraction programme or other work remediation work, to prevent and reduce environmental damage requested by us?

No

Are you making this application as part of an agreement to trade water rights? Water rights trading is where a Licence Holder sells all or part of their abstraction licence rights, permanently or temporarily, to another person.

No

Provide details below

This licence is to enable abstraction of a mine water discharge for the purpose of mine water treatment trials, part of NRW's and the Coal Authority's Wales Metal Mines Programme. Due to technical and budget constraints, the mine water treatment trials have not yet commenced, so we wish to renew the abstraction licence.

Existing Licence Holder details

Provide details of the existing Licence Holder.

Full Name	Cambrian Environmental Technologies Ltd
Company, Charity or Trading Name	Cambrian Environmental Technologies Ltd
Company or Charity Registration Number	04275212

Registered Address

Building and street	Ty Maelgwyn 1a Gower Street, Cathays
	-
Town and City	Cardiff
County	Cardiff
Postcode	CF24 4PA
Office Telephone Number	07905 278 580
Mobile Telephone Number	07905 278 580
Email Address	spearce@cambrianenvirotech.co.uk

Details of individual or agent authorised to act as a point of contact

This is who we will correspond with unless otherwise informed. If an agent signs on behalf of an applicant, a letter of authorisation from the applicant is required

Full Name	Julia Dent
Company, Charity or Trading Name	CAMBRIAN ENVIRONMENTAL TECHNOLOGIES LIMITED
Company or Charity Registration Number	04275212

Registered Address

Building and street	Ty Maelgwyn 1a Gower Street, Cathays
	-
Town and City	Cardiff
County	Cardiff
Postcode	CF24 4PA
Office Telephone Number	-
Mobile Telephone Number	-
Email Address	jdent@cambrianenvirotech.co.uk

Specify who we should contact with regard to

	Applicant	Agent
Operations (on site) contact	X	
Invoice contact	X	

Details of individual authorised to act as abstraction records (returns) contact

Specify who we should contact regarding abstraction records (returns)

Existing returns contact

Are you applying to apportion your licence? Find an explanation of apportionment on our website.

No

Are you applying for a simple change?

Yes

Simple Change(s)

Provide details of the simple change(s) you wish to make and the reasons for this change. You should state what aspect of the current licence you wish to amend in the first column, the change you propose in the second column and the reason for this change in the third column. Complete one row for each change(s) proposed.

	Current licence	Change proposed	Reason for change
	Approx. 19 month licence period.	Extend licence period to 36 months i.e. expires 31/03/2028.	To accommodate further delays in mine water treatment trials.
	N/A	N/A	N/A
	N/A	N/A	N/A

Same terms renewal

Are you applying for a same terms renewal?

Yes

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 water usage has been lower than your licensed volumes, you will need to provide additional information to demonstrate your continued need for the water, for example, additional justification or a Business Case.

NRW's Wales Metal Mines Programme has commissioned Cambrian Environmental Technologies to develop their Sustainable Active Treatment (SAT) mine water treatment solution. This includes field trials at Nant y Mwyn Mine, Carmarthenshire.

There will be two periods of field trials, one in summer conditions and one in winter conditions, each of approximately two weeks duration. The trials will involve capturing a portion of the mine water discharge from Nant y Mwyn's Lower Boat Level, transferring this to the SAT treatment system, before the treated water is returned to the existing watercourse. The treatment system will be housed in portable containers.

The treatment system will have a capacity of 10 L/s as this is the designed capacity that the system will be operated to (864 m³/day), although in practice actual abstraction rate will be much lower as the treatment system will only operate during normal working hours. The abstraction rate is likely to vary between 1.7 L/s and up to a maximum of 15 L/s, but with an average sitting at <10 L/s, based on whether it's running in either batch or continuous mode and the number of passes which are managed per day. As a conservative approach we have assumed we run the system for 8 hours a day at 10 L/s to calculate abstraction volumes. The current trial plan is to run the trial for four days under batch mode and four days under continuous mode, with additional days in the schedule for contingency and set-up/pack-up of the system. The system, and thus the abstraction rate, will be increased from the lower end of the range towards the upper end of the range as the trial progresses. The maximum abstraction rate per day based on the highest abstraction rate will be 289 m³/day (operating at an average of 10 L/s for an 8 hour day). A maximum spot abstraction could range up to 15 L/s to fill the feed tank, but this would not be continuous over the full working day, likely only for an hour or so at maximum, thus the overall abstraction rate for the day will be lower. The total abstraction volume over a 2.5 week period is expected to be 2890 m³. NRW has a continuous flow logger on the Lower Boat Level discharge which indicates a mean flow of approximately 15 L/s with maximum flows up to approximately 70 L/s, therefore the abstraction range should sit within normal expected flows.

Different terms renewal

Are you applying for a different terms renewal

No

Signatures: existing Licence Holder (for all changes), and proposed Licence Holder(s) for Transfers and Apportionments

Existing Licence Holder's signature

Full Name Steven Pearce

Position Director

Signature Steven Pearce

Date 02/12/2024

Would you like a copy of your submission?

Yes

Your email address

jdent@CambrianEnviroTech.co.uk