

FORM WRA: Applicant details and proposal outline

Application type and fee

Please generate a reference number. It should start with "WR" followed by your organisation or company name and today's date in four-digit format (DDMM) without spaces or punctuation.

Example: WRNATURALRESOURCESWALES1101

Please use this use this number throughout this application. This reference number can also be used for your BACS reference if paying electronically.

WRCAMBRIANENVIRONMENTALTECHNOLOGIES1204

For the application types listed, complete this form and/or the relevant additional forms named below. Tick the type of application you are applying for. Please refer to our Find out if you need a licence web-page for an explanation for the different licence types. If your proposal involves multiple licence types, tick all that apply.

See our Charges for abstraction and impoundment applications web page for details of application fees and how to pay.

New licence to transfer water. Also complete form WRD.

Please indicate how you wish to pay your application fee. If paying by BACS, please quote the reference number created in question 1 when setting up the bank transfer.

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

BACS

Please add your BACS reference below

CambrianEnvironmentalTechnologies1612

Applicant details

Applicant type

Limited company

Applicant details

Full Name Cambrian Environmental Technologies Limited

Company, Charity or Trading Name Cambrian Environmental Technologies Limited

Company or Charity Registration Number 04275212

Applicant Registered Address

Line 1 Ty Maelgwyn 1a Gower Street
Line 2 Cathays
Line 3 Cardiff
Line 4 South Glamorgan
Postcode CF24 4PA

Applicant Contact details

Office Telephone Number 01745 814 462
Mobile Telephone Number 07407062175
Email Address spearce@cambrianenvirotech.co.uk

Please indicate who we should contact regarding operation of your site, this should be the person responsible for the day to day running of the operation.

	Applicant	Agent
Site operations contact	X	

For applications for abstraction licences, please also specify who we should contact for invoices and abstraction records (returns).
Not necessary for temporary or transfer licence applications.

	Applicant	Agent
Invoice address	X	
Abstraction records contact	X	

Details of agent or individual authorised to act as application contact

Use applicant contact details

Yes

Entitlement to apply (not required for impoundment licence applications)

Does the applicant have a legal right of access to the point of abstraction?

Has an expected right of access

Date these access rights are expected

* 01/06/2023

Site map showing abstraction points

- File: Abstraction location.pdf - [Download](#)

Other supporting documents

- File: Nant y Mwyn_land ownership.pdf - [Download](#)
- File: Access info - temporary statement.pdf - [Download](#)

For expected rights of access, please also provide the additional evidence as outlined above.

Please tick here to show that you have done this.

Pre-application number

Have you undertaken a pre-application enquiry or had any previous discussions with us?

Yes

Provide reference number or staff member's name

Ashley Lansdown

Remediation work

Is this proposal as a result of a Restoring Sustainable Abstraction programme or other work requested by us?

Yes

Provide your licence number

n/a Project is part of NRW's Metal (Non-Coal) Mine Programme.

Source of supply

State where you intend to abstract from

Groundwater. e.g. Borehole, mine, unlined excavation

Provide a 12 digit National Grid Reference for the proposed or existing abstraction or impoundment point (e.g. ST 19057 76826)

SN7823543797

Source of supply (name of watercourse or aquifer)

Lower Boat Level Discharge

Site name / reference
(e.g. Tŷ Mawr Farm)

Nant y Mwyn Mine

Proposal summary

Please provide an outline of your proposal, including any sketches.

As a guide, you should include: a description of the activities which (will) take place at your site, the means of abstraction/impoundment proposed, if the proposal is related to another licence or permit (i.e. an Environmental Permit to Discharge Water) and details of any survey work undertaken. For changes to existing licences, summarise the changes proposed. Sketches or photographs that will aid our understanding of your proposal can be uploaded below.

NRW's Metal (Non-Coal) Mine 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 (Fig.1), transferring this to the SAT treatment system, before the treated water is discharged downstream into the existing watercourse. The treatment system will be housed in two 10 foot portable container, similar to Fig.2 below. The water treatment system will sit in one container and the generator and compressor required for the system will sit in a separate container.

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 50 L/s, therefore the abstraction range should sit within normal expected flows.

Summary of proposal

- File: Site and container photos.pdf - [Download](#)

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 Steven Pearce
Print name Steven Pearce
Position Principal Geoscientist / Director

Date

* 12/04/2023

Would you like a copy of your submission?

Yes

Your email address

jdent@CambrianEnviroTech.co.uk