

Eign Sludge Treatment Centre

B6 Application Form - New bespoke water discharge activity or groundwater activity (point source discharge) or point source emission to water from an installation

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The form responds to question listed in Table 1 of the B6 application form for the last listed option 'Effluent and/or contaminated surface water run - off arising from the operation of an installation.

Therefore, only the following questions have been responded to:

Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Effluent and/or contaminated surface water run-off arising from the operation of an installation	No additional charge, as already included as part of the installation variation application charge	<input checked="" type="checkbox"/>	a, b, d	c	b, c, d, f		a, b2	a, b, c	b, c, d, e, f, g	d*, e*, f	a, b, d, e, f, h, i	a, b, c

* Check the relevant question and our guidance notes on part C6 to see if you need to give an answer.

Note Question 6c is not within the application, despite being listed as being required by Table 1 of the application form.

Question 1 About the variation you are applying for?

Effluent description: Sludge return liquors from the STC process and condensate from the gas pipelines and gas storage bag.

Effluent name: STC return liquors.

Question 2 How long will you need to discharge for?

Start date: from date of IED permit issuance.

The discharge will not be time limited, will take place all year and continuously (e.g. for more than six day in any year)

Question 3 How much do you want to discharge?

Dwr Cymru Welsh Water (DCWW) is not aware of the quantity of water sent to the inlet works from the STC because it is not currently monitored, therefore no details have been provided for Question 3.

Question 4 Intermittent sewage discharges

It is not possible to answer Q4a-o. These do not seem applicable to the process.

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Question 5 Should your discharge be made to the foul sewer?

The discharge point (inlet works, W7 (document reference 100381175-006-MMD-00-XX-DR-Y-0004) is located within the operator's own wastewater treatment works, therefore, the distance to the nearest foul sewer is 0m and response to Question 5b2 is not applicable.

Question 6 How will the effluent be treated?

Effluent is treated before reaching the inlet work (W6) in the liquor treatment plant (aka SBRs at asset ref 22 and 23 on plan ref 100381175-006-MMD-00-XX-DR-Y-0004) , however, once leaving the inlet works the effluent will be further treated through the Wastewater Treatment Works. The process description is provided in Section 3 of the Main Supporting Document.

Question 7 What will be in the effluent?

DCWW is not aware of the composition of the effluent discharged to the inlet works from the STC (W4) because it is not currently monitored, therefore, no details have been provided for Question 7.

The temperature of effluent is not known, but since the water is not direct from processes it is expected to be ambient.

It is expected that Improvement Conditions in the IED permit will be provided and DCWW will identify how it will monitor and characterise the liquors returning to the head of the adjacent Eign WTW.

Where suitable and available, any monitoring, sampling and analysis of emissions to water is undertaken according to MCERTS, or equivalent standards, by MCERTs accredited contractors.

Question 8 Environmental risk assessments and modelling

Discharges to freshwater (non - tidal) rivers from an installation, including discharges via sewer

DCWW is not aware of the composition of the effluent discharged to the inlet works from the STC (W4) because it is not currently monitored, therefore, screening cannot be undertaken at this time.

It is expected that Improvement Conditions in the IED permit will be provided and DCWW will identify how it will monitor and characterise the liquors returning to the head of the adjacent Eign WTW.

Where suitable and available, any monitoring, sampling and analysis of emissions to water is undertaken according to MCERTS, or equivalent standards, by MCERTs accredited contractors.

Question 9 Monitoring arrangements

Effluent monitoring will be in line with permit conditions. It is expected that Improvement Conditions in the IED permit will be provided and DCWW will identify how, and the final locations of where, it will monitor and how it characterise the liquors returning to the head of the adjacent Eign WwTW.

Where suitable and available, any monitoring, sampling and analysis of emissions to water is undertaken according to MCERTS, or equivalent standards, by MCERTs accredited contractors.

Appendix 5 Discharges to non-tidal river, stream or canal

The discharge of secondary treated sewage effluent from the Eign WwTW is permitted under the permit reference AH1001101, from Outlet 1 – Final Effluent Discharge Point into the River Wye at SO 52214 38795. Outlet 2 Settled Storm Sewage into the River Wye at SO 52132 38857 (discharge from Outlet 2 is limited to caveated circumstances within the permit). For the purpose of this application, the discharge referred to in Appendix 5 refers to Outlet 1 as this is the primary discharge from Eign WTW. Outlet 2 is for settled storm sewage and, therefore, not applicable as it will not carry discharges from the anaerobic digestion installation.

The discharge pipework is already installed and has been authorised by the permit AH1001101 since before 2010 (permit variations identified on the permit state modifications request in March 2010). It is not anticipated as part of the application to bring the Site in line with IED for anaerobic digestion for the design of the pipework to be altered.