



WEPD/OD/46/D7

WO REF WEP/WS 9111/16
WWA REF CG 0114601

*Not yet
commissioned.*

WELSH OFFICE

CONTROL OF POLLUTION ACT 1974: SECTIONS 34 & 55
THE CONTROL OF POLLUTION (DISCHARGES BY AUTHORITIES) REGULATIONS 1984
CONSENT FOR A DISCHARGE

WHEREAS

1. The WELSH WATER AUTHORITY (hereinafter referred to as 'the Water Authority') proposes to discharge biologically treated sewage effluent from the Llan Penmachno Sewage Treatment Works to the Afon Machno at national grid reference SH 7950 5132 as shown on the attached plan.

2. The proposals require the consent of the Secretary of State for WALES in pursuance of sections 34 and 55 of the Control of Pollution Act 1974 as modified by the Control of Pollution (Discharges by Authorities) Regulations 1984 (hereinafter referred to as 'the Regulations').

3. In accordance with the provisions of Regulation 2 of the Regulations the Water Authority have submitted the proposals to the Secretary of State in the form of an application for consent dated 18 March 1988

THE SECRETARY OF STATE FOR WALES hereby consents to the proposed discharge subject to the conditions specified in the Schedule hereto attached.

Signed 

On behalf of the Secretary
of State for Wales

Dated this *19* day of
October 1988

SCHEDULE

Conditions prescribed for the discharge of biologically treated sewage effluent to the Afon Machno at the Llan Penmachno Sewage Treatment Works.

"Sewage" can mean domestic sewage alone or in admixture with industrial waste water(s).

1. The nature of the effluent shall be biologically treated sewage effluent.
2. Adequate facilities shall be provided for the Secretary of State's representative so as to enable samples of the effluent to be conveniently obtained at grid reference SH 7950 5132
3. The Welsh Water Authority shall take samples of the effluent in accordance with the relevant provisions of the Authority's sampling periodicity guidelines for the time being in force and approved for this purpose by the Secretary of State (and as may be indicated below) and shall keep records of such samples and the results of analyses thereof for inspection by the Secretary of State's authorised representative.
4. The volume of effluent under dry weather conditions shall not exceed 110 cubic metres in any period of 24 hours.
5. The maximum rate of flow discharged to the river at any time shall not exceed 3.82 litres per second. All sewage flow rates up to the maximum quoted above shall receive biological treatment.
6. The analytical methods used for determining compliance or otherwise with this consent shall be assumed to be those specified in the latest edition of "Methods for the Examination of Waters and Associated Materials" published by HMSO. Other methods of analysis may be used as alternatives to those specified in the above named publication providing that Secretary of State is

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satisfied that they give comparable or better performance characteristics. Such other methods shall be submitted for approval to the Secretary of State together with all necessary supporting evidence.

7. The quality of the effluent discharged to the river at all flow rates up to the maximum quoted in 5 above, shall not be inferior to the following numerical quality limits (determinands) save as provided for in the Annex (by reference to the table included therein) to this Schedule.

7a. The Suspended Solids concentration (dried at 105 degrees Celsius) shall not exceed 150 milligrams per litre.

7b. The BOD (Biochemical Oxygen Demand) concentration determined in the presence of 0.5 milligrams per litre of allyl-thiourea shall not exceed 150 milligrams per litre.

7c. The ammoniacal nitrogen expressed as nitrogen shall not exceed 50 milligrams per litre.

8. All the preceding provisions of this consent shall come into operation one calendar month after the works commissioning date should be commissioning date be in summer and after two calendar months should the commissioning date be in winter.+ During the commissioning period, that is from the works commissioning date to the date when all the provisions of this consent come into operation, the following condition shall apply:

1. During the commissioning period the Welsh Water Authority shall make every reasonable effort to maintain at all times a biomass/organic load relationship commensurate with full commissioning within the time scale allocated and at the same time maintaining the minimum possible pollutional load on the river in terms of flows and determinand concentrations emanating from the biological treatment units. The Authority shall inform the Welsh Office (HMIP) of the commissioning date at least one calendar month prior to this date.

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9. Any previous consents issued by the Secretary of State in respect of effluents to which this discharge relates shall be revoked on the works commissioning date, which, in accordance with the 6(c) Agreement between the Authority and the Welsh Office, shall be on or before 31 March 1990.

NOTE: +For the purposes of this consent "winter" shall be understood to commence on 31 October and finish on 31 March and "summer" to commence on 1 April and finish on 30 October.

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ANNEX

Where the number of samples taken in one year (that is from the 1 April to the 31 March) falls within any of the ranges given in Column 1 of the table below, the number of samples which are inferior to a specified numerical quality limit determinand set in Paragraph 7, and where relevant, Paragraph 8 of the Schedule shall not exceed the appropriate permitted number as listed in Column 2. A sample shall only be considered as having failed in relation to the particular determinand(s) for which the specified quality limit is exceeded. A sample shall be considered to be satisfactory in relation to other determinands, the concentration of which, are equal to or lower than the specified limit.

TABLE

Column 1	Column 2
Series of samples taken in any year	Maximum number of samples in which the same numerical quality limit may be exceeded.
4-7	1
8-16	2
17-28	3
29-40	4
41-53	5
54-67	6
68-81	7
82-95	8
96-110	9
111-125	10
126-140	11
141-155	12
156-171	13
172-187	14
188-203	15
204-219	16
220-235	17
236-251	18
252-268	19
269-284	20
285-300	21
301-317	22
318-334	23
335-350	24
351-365	25

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