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WEPD/OD/46/D7

WO REF WEP/WS9112/10
WWA REF BG 0038101

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 Rhoshill Sewage Treatment Works to an un-named stream at national grid reference SN 1944 4013 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 20 February 1989

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

Signed *A. Rees*.....

Dated this 21 day of June
1989

On behalf of the Secretary
of State for Wales



WEPD/OD/34/D7

SCHEDULE

Conditions prescribed for the discharge of biologically treated sewage effluent to an un-named stream at the Rhoshill 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 SN 1939 4010
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 10 cubic metres in any period of 24 hours.
5. The maximum rate of flow discharged to the river at any time shall not exceed 0.24 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 70 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 45 milligrams per litre.

7c. The ammoniacal nitrogen expressed as nitrogen shall not exceed 47 milligrams per litre.

8. Any previous consents issued by the Secretary of State in respect of effluents to which this discharge relates shall be revoked as of the date of this consent.

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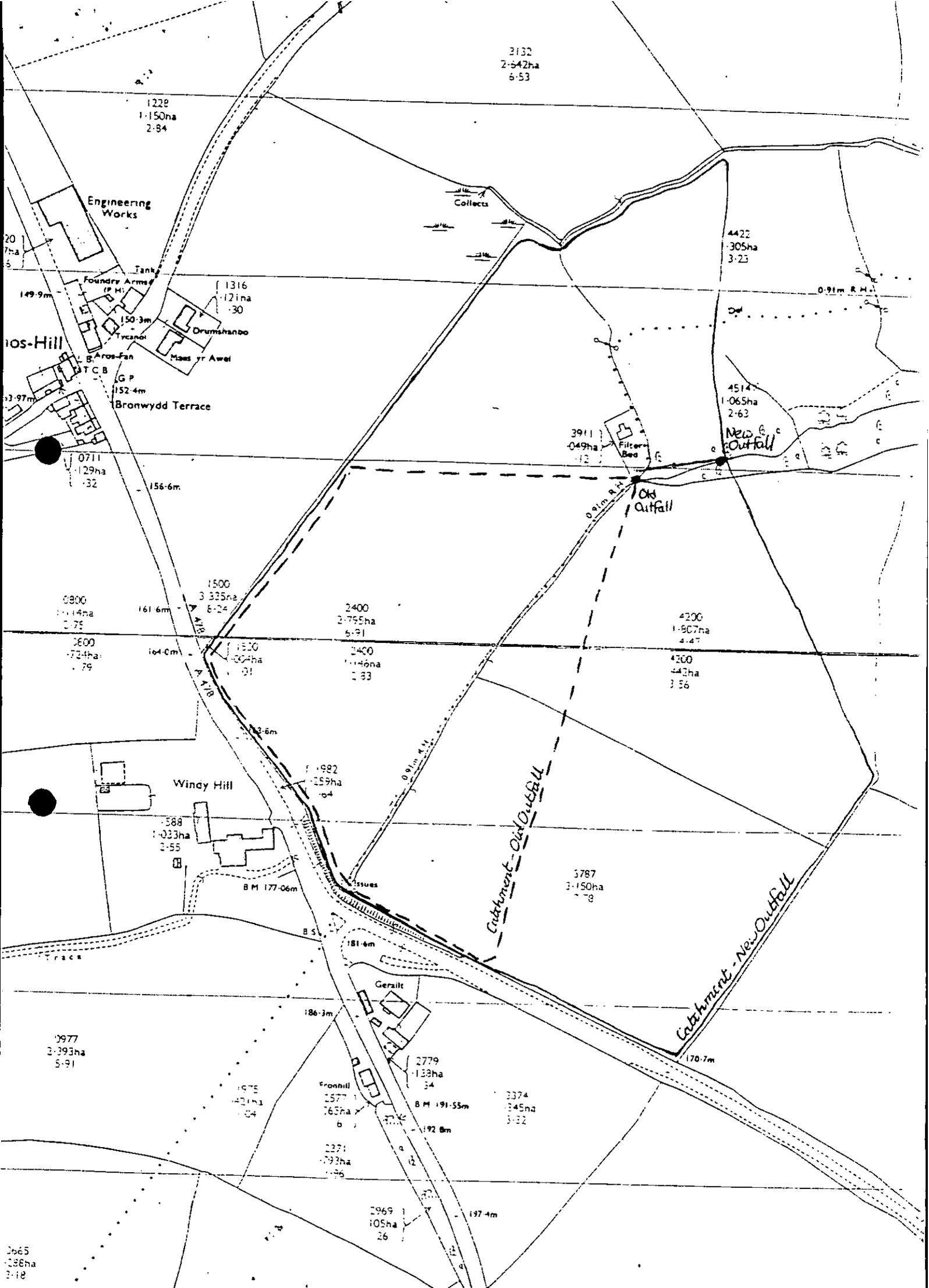
ANNEX

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

SUPPORTING INFORMATION FOR A CONSENT / REVIEW (CONTINUED) Form SS.SI.1						Welsh Off Ref							
Relating to:						Welsh W A Ref							
RIVER AND EFFLUENT FLOWS AND DILUTIONS						Flows in Immediate Receiving Water		Flows in Main Receiving Water					
Flows in m ³ /d. If estimated, give method:						Meas / Estd at OSGR: SN 1944013		Meas / Estd at OSGR:					
						Minimum	5%ile	Mean	Minimum	5%ile	Mean		
							34.6	270.4		242	2013		
Effluent Statistic		Source of Data		Effluent Volume		Dilution Ratios - expressed as x River : 1 Effluent							
D.W.F.		Meas / Estd		10.0			3.46	27.04					
Maximum		Meas / Estd											
RIVER REGIME		Width, Depth & Reaeration		W	m	D	m	R	W	m	D	m	R
TREATMENT PLANT UNITS - with Critical Dimensions						Primary Sett.	Area	m ²					
Unit	Detail	Existing	Proposed	Ultimate	Storm Tanks	Area	m ²						
Storm S. Of flow	Set @ 1/s				" "	Volume	m ³						
Screens	Space mm				Septic Tank	Volume	m ³	8.3					
Well Retent'n.	Hours				Biol. Filters	Media	m ³	29.5					
Pumping Rate	Max. 1/s				Act'd. Sludge #	Volume	m ³						
Gravity Feed	Yes / No				Package Plant*	Surface	m ²						
Flow Meas't.*	Yes / No				Pasveer Ditch#	Volume	m ³						
Grit Removal	Yes / No				Final Sett't.	Area	m ²	2X1.28m ²					
Macer'n/Commin.	Yes / No				Tert'y Treat.*	Area	m ²						
Other Units and Details		* Type	# Power										
SLUDGE TREAT. AND DISPOSAL													
TRADE WASTES Types & m ³ /d		NIL											
FURTHER DATA & STATEMENT From Dist/Div.		See attached letter of 21.02.89											
Additional conditions Nearby efflts and changes EC Dangerous Substances EC Designated Waters SSSIs (Continue on Form SS.SI.2 if necessary)													
CAPITAL WORKS		Outline Appra.		Second Appra.		Final Appra.		Start		Finish			
District Ref		District Contact		R. MORGAN		HOWOS Ref							
For use by: HQ WATER QUALITY SECTION													
For use by: WELSH OFFICE													



2132
2-642ha
6-53

1228
1-150ha
2-84

4422
305ha
3-23

Engineering Works

Collects

20
7ha
5

Tank

1316
121ha
30

0.91m R.H.

ios-Hill

Foundry Arms

Drumshanbo

3-97m

150-3m

149-9m

152-4m

Bronwydd Terrace

0711
129ha
32

156-6m

3911
049ha
12

Filter Bed

4514
1-065ha
2-63

New Outfall

Old Outfall

0.91m R.H.

0800
1-14ha
0-75

161-6m

1500
3-325ha
6-24

2400
2-755ha
6-31

4200
1-807ha
4-47

2800
72-4ha
1-79

164-6m

1520
1-004ha
3-01

2400
1-146ha
3-33

4200
4-2ha
3-56

Windy Hill

1982
259ha
6-04

0.91m R.H.

Culvert - Old Outfall

1588
1-033ha
3-55

B.M. 177-06m

3787
1-150ha
3-78

Culvert - New Outfall

TRACK

B.S.

181-6m

Gerallt

0977
2-393ha
5-91

186-3m

2779
1-138ha
3-4

3374
3-45ha
3-32

170-7m

1975
1-421ha
3-04

Fronhill
2577
1-765ha
3-6

B.M. 191-55m

2271
1-793ha
3-26

192-8m

2969
1-105ha
2-26

197-4m

2065
1-186ha
3-18