

Water Resources Act 1991
as amended by the Environment Act 1995
Consent to Discharge
Certificate of Holder



**ENVIRONMENT
AGENCY**

Part A

To: DWR CYMRU CYFYNGEDIG
CONSENTS REGULATION OFFICER
PLAS-Y-FFYNNON
CAMBRIAN WAY
BRECON LD3 7HP

The Environment Agency ("the Agency") hereby confirm that the above named person is a/the registered holder of consent CG0082501

Nature of Discharge(s); SEWAGE EFF/TREATED EFF/CONTINUOUS
at DOLGELLAU STW

Note: This certificate should be kept with the consent document for future reference. If you transfer responsibility for the discharge to somebody else you must pass the consent to them and tell the Agency within 21 days. Responsibility for the consent cannot be disclaimed by the holder but the registration of holder may be transferred to a successor. To do this please complete the form below, then tear it off and return it to the address shown. If you fail to transfer the consent, even though you are no longer on the site, you may still be liable for prosecution for pollution. If you transfer the consent but do not tell us, you will be committing an offence. In case of any queries please contact your local Environment Agency office.

Part B Please complete in block capitals or type.

To:

Water Resources Act 1991: Notice of transfer of consent to discharge

Consent:

Name:
Address:

I/We* hereby serve notice on the Agency that I/we* am/are* no longer a/the* Holder of the above consent which will be/was* transferred to:

*delete as appropriate

Name(s) of new holder(s):

Address:

Post Code:

Date of Transfer to new Holder(s):

Signed:

Dated:

Name (block capitals):

Position:

JWE/50

Use only for non-ferrous metals
on behalf of corporate bodies



W. C. H. C.

Y Swyddfa Gymreig

Parc Cathays
Caerdydd CF1 3NQ



Welsh Office

Cathays Park
Cardiff CF1 3NQ

CG00825-01

Telex 498228

Telephone (Switchboard) 0222 825111 GTN Code 2408

(Direct Line) 0222 82

Fax: GP2- 0222 823204; GP3- 0222 823036

Mr R P Dale
Welsh Water Authority -
Water Quality
Penrhosgarnedd
BANGOR
Gwynedd

Eich Cyf/Your ref
CG0082501

Ein Cyf/Our ref
WEP/WS9111/10

Dyddiad/Date
3 December 1987

Dear Mr Dale

DOLGELLAU SEWAGE TREATMENT WORKS

I herewith enclose the discharge consent for the biologically treated sewage effluent for the above works which will apply after reconstruction.

Visiting the 2 fellmongering firms with Mr Forthrop on 16 November was helpful. The installation recently of an additional aerated balancing tank with facilities for metal catalyst addition at the larger of the 2 firms should reduce considerably the risk of unacceptable discharges. The firm appears to have recognised the need, at your insistence, to check for sulphides prior to balancing tank contents discharge to the sewer. I am though less satisfied with the facilities provided by the other firm.

In spite of your advances over the last year in encouraging the traders to adopt a responsible approach I nevertheless feel that some protection should be provided for biological treatment. As you said at the meeting no guarantees can be given that the traders will be good boys at all times or that accidents will not happen from time to time.

What I have in mind here is to preserve the outer annulus in one contact stabilisation plant and this would act as an aerated/balancing tank for the incoming sewage prior to dosing onto the first filter. At design DWF the retention time would be about 6.6 hours. Whilst not ideal in a load balancing sense much could be done in terms of the judicious choice of take-off/discharge points for pumped recycle and having a fairly large recycle rate over the first filter. The settling tank (interstage) would have a rise rate of about 2.8 m/hour at maximum flow which does not seem to be excessive for interstage settling of humus sludge. Normally the air requirement should be low but to meet emergency situations maybe the compressors could be provided with DO control.

As agreed at the meeting the need for an ammonia standard will be reviewed after some monitoring in low river flow periods in the estuary post commissioning. I should be pleased also if sulphide concentrations could be normally checked

11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100



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 to the Afon Mawddach from the Dolgellau Sewage Treatment Works at national grid reference SH 7107 1894 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 28 August 1987.

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

Signed P. R. Mander

On behalf of the Secretary of State for Wales

Dated this 2nd day of December 1987

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

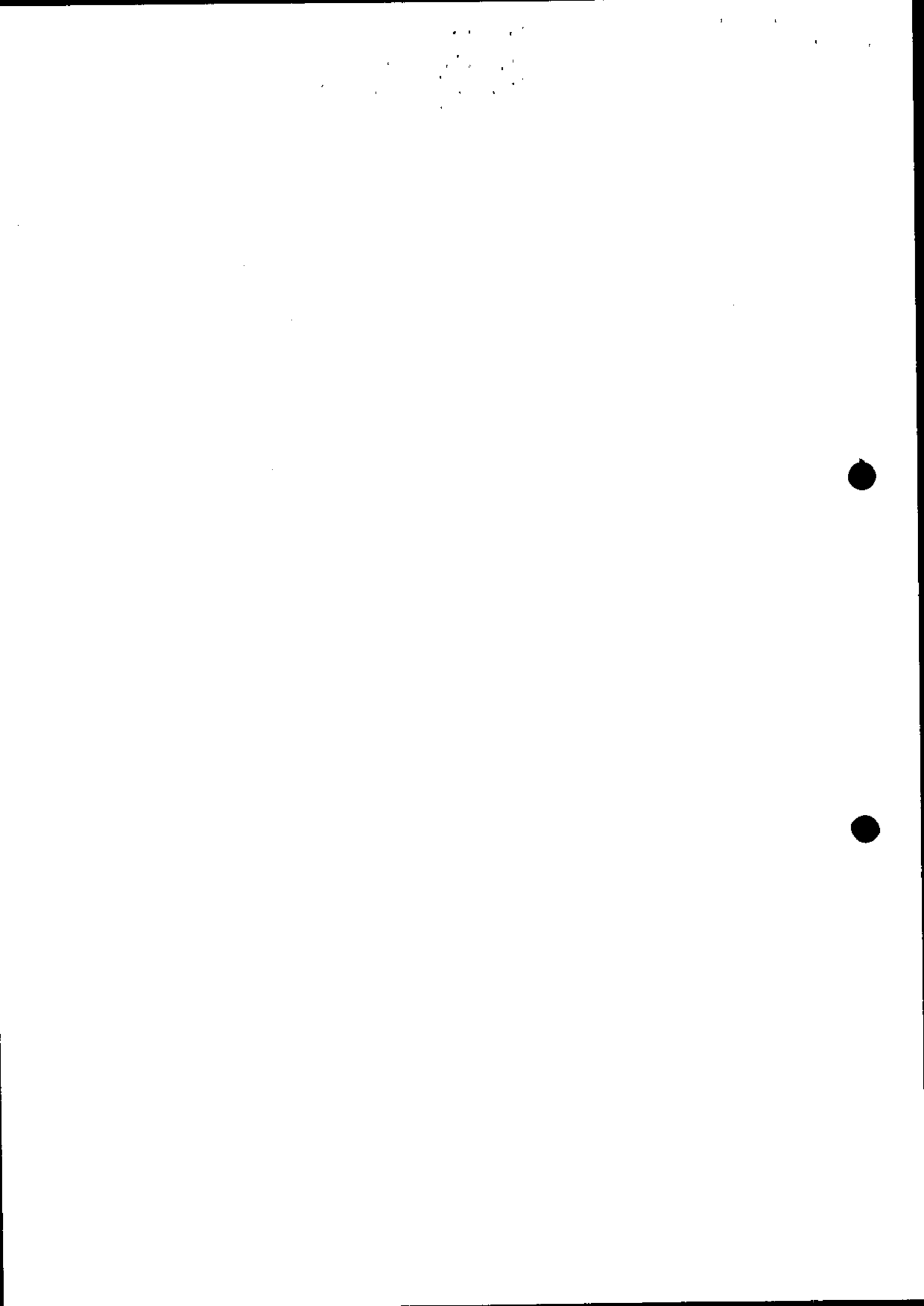


SCHEDULE

Conditions prescribed for the discharge of biologically treated sewage effluent to the Afon Mawddach at the Dolgellau 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 7128 1833
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 1772 cubic metres in any period of 24 hours.
5. The maximum rate of flow discharged to the river at any time shall not exceed 42.7 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



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.

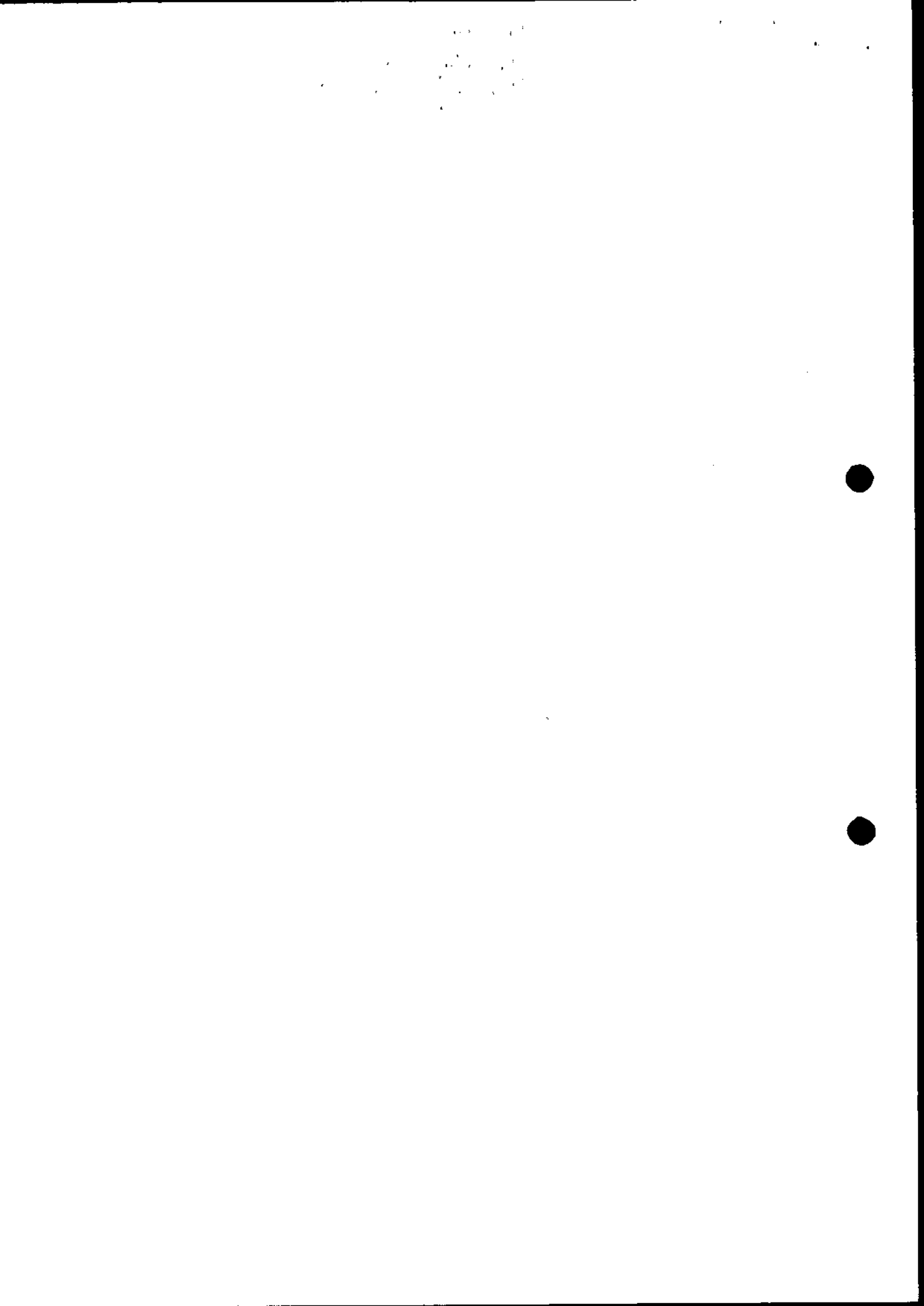
7a. The Suspended Solids concentration (dried at 105 degrees Celsius) shall not exceed 150 milligrams per litre.

7b. The BOD (Biochemical Oxygen Demand) concentration determined in the presence of 0.5 milligrams per litre of allyl-thiourea shall not exceed 140 milligrams per litre.

8. The Welsh Water Authority shall inform the Welsh Office (HMIP Division) in writing and as soon as is practicable of any information it receives to the effect that there has been or is likely to be discharged into the sewerage system supplying the works, quantities of substances included in Lists I or II of the EEC Directive 76/464/EEC dated 4 May 1976 which discharge may affect the realisation of the EQO (environmental quality objective) set for the receiving waters.

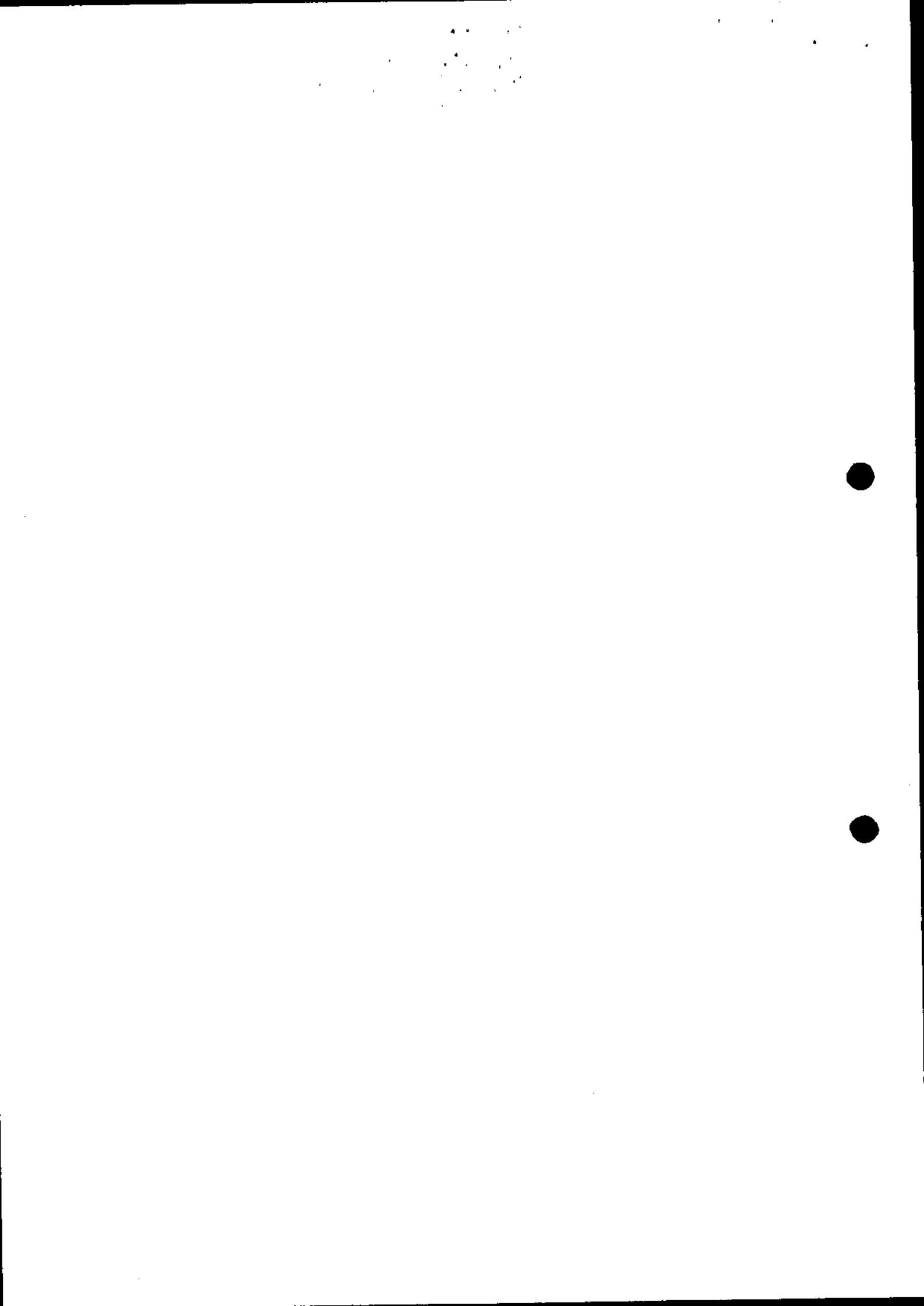
9. All the preceding provisions of this consent shall come into operation one calendar month after the works commissioning date should the commissioning date be in summer and after two calendar months should the commissioning date be in winter.+ During the commissioning period, that is from the works 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 Division) of the commissioning date at least one calendar month prior to this date.



10. 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.

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.



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, 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

Faint, illegible markings at the top of the page, possibly bleed-through from the reverse side.



RIVERS (CONTROL OF POLLUTION) ACTS 1951-1961
THE WATER AUTHORITIES (CONTROL OF DISCHARGES) ORDER 1978

CG00825-01

I am directed by the Secretary of State for Wales to refer to the discharge consent in respect of the DOLGELLAU..... sewage treatment works dated 12... AUGUST.... 1982.

The Secretary of State for Wales, having consulted with the Welsh Water Authority, hereby gives notice that in exercise of his powers under Articles 4(8) and 8 of the Water Authorities (Control of Discharges) Order 1978 (SI 1978 No 1210), the conditions imposed on the said consent shall be varied in the following terms:

CONDITIONS

The quality and quantity of effluent shall not exceed the following maximum values:

Biochemical Oxygen Demand (+ ATU) over 5 days at 20°C;.....330..... milligrammes per litre.

Suspended Solids dried at 105°C;640..... milligrams per litre.

Ammoniacal ammonia expressed as nitrogen✓..... milligrams per litre.

Dry Weather Flow ~~litres per second~~ or ..1960..... metres cubed per day.

This variation takes effect from the 30. January 1985.

This notice should be retained with the consent dated 12... AUGUST... 1982.

George Roberts
WEP Division
Welsh Office

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100



LOCAL GOVERNMENT ACT 1972 WATER ACT 1973
 RIVERS (PREVENTION OF POLLUTION) ACTS 1951-1961
 WATER AUTHORITIES (CONTROL OF DISCHARGES) ORDER 1978

NOTIFICATION OF VARIATION OF CONSENT
 for a discharge of treated sewage effluent

To : WELSH WATER AUTHORITY

This Notice is issued under the above-mentioned Acts and Order and all other enabling powers as a NOTICE DEEMED TO HAVE BEEN GIVEN BY THE SECRETARY OF STATE FOR WALES, in respect of the existing discharge of treated sewage effluent from the Authority's :

DOLGELLAU SEWAGE TREATMENT WORKS
 via an existing outlet and subject hitherto to a previous consent as specified below.

THE EXISTING OUTLET is to : the Mawddach Estuary
 at National Grid Reference : SH 7107 1894
 and has been shown marked : Discharge Point
 on the attached Plan, No. : RW/0412/T/1

THE PREVIOUS CONSENT was : the Consent Reference No.
 granted on : 3rd March 1972
 by : Gwynedd River Division
 to : Dolgellau Urban District Council

The Authority submitted this Notification of Variation on : 12th May 1982 to the Secretary of State for Wales in the form of a draft and the Secretary of State has NOT, within the relevant period, given notice of his intention to determine this matter. This discharge is therefore (in substitution for all the conditions hitherto in force) subject only to the following conditions as from : 12th August 1982

CONDITIONS

- The discharge shall consist only of treated sewage effluent from the above works.
- The quality and quantity of effluent shall not exceed the following maximum values:

<u>Determinand</u>	<u>Value</u>	<u>Unit</u>
Biochemical Oxygen Demand (+ATU) over 5 days at 20°C	95	milligrams per litre
Suspended Solids dried at 105°C	130	milligrams per litre
Rate of discharge	46.3	litres per second
Volume during any period of 24 consecutive hours	4000	cubic metres
Volume discharged under 'dry weather conditions' during any period of 24 consecutive hours	1960	cubic metres
- Adequate facilities shall be provided for the taking of samples of the effluent at a sampling chamber approximately 5 metres after settlement tanks.

The terms of this Notice will not, without the consent in writing of the person to whom this Notice is given, (or his successor), be altered before the expiration of the period ending with the Twelfth day of August 1984.

This Notification is issued by the Directorate of Scientific Services, Headquarters, Welsh Water Authority, Cwmfarian Way, Brecon, Powys.

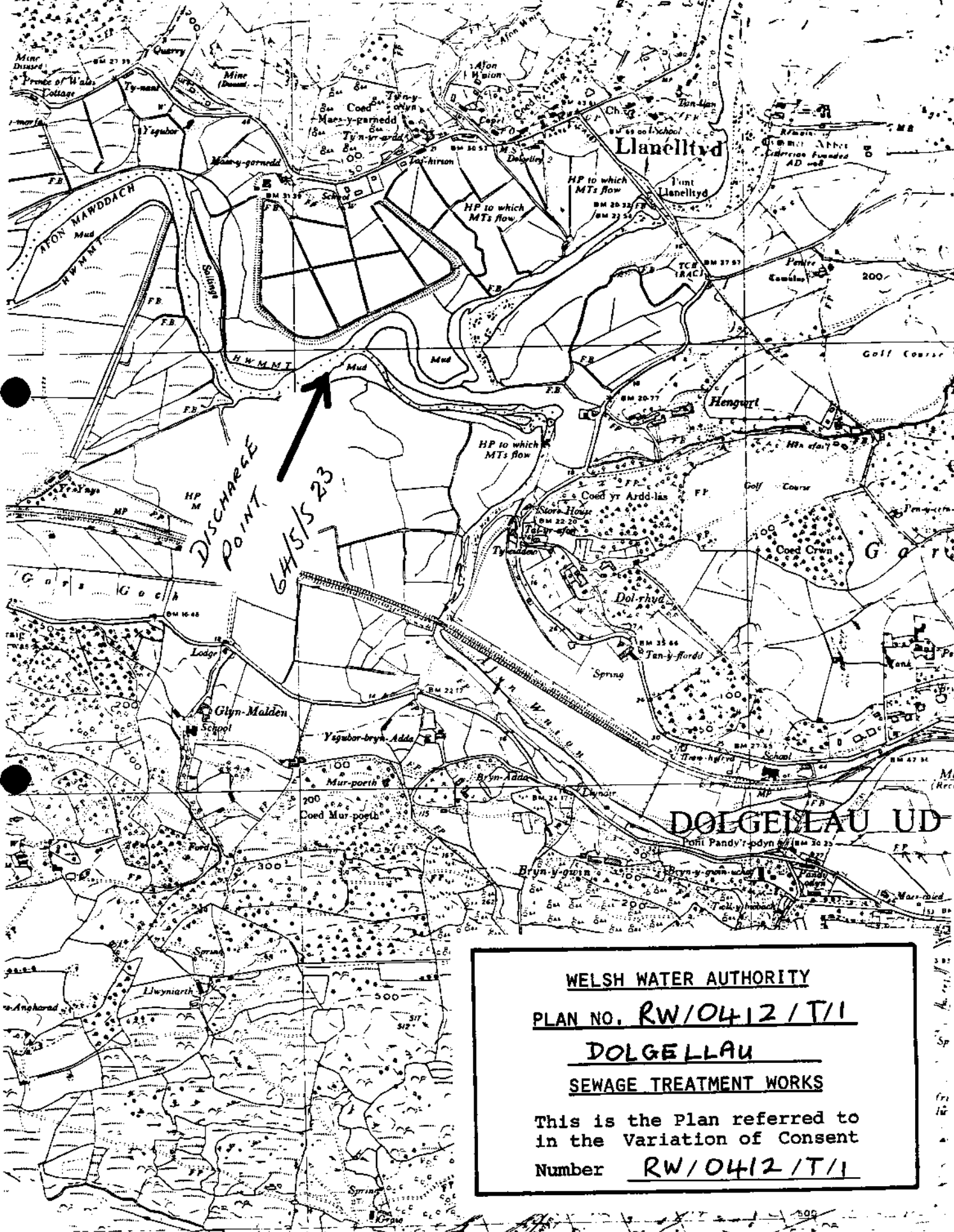
1000



DOLGELLAU S.T.W.

OSGR. SH. 71071894

FULLY TREATED SEWAGE EFFLUENT



WELSH WATER AUTHORITY
PLAN NO. RW/0412/T/1
DOLGELLAU
SEWAGE TREATMENT WORKS
This is the Plan referred to
in the Variation of Consent
Number RW/0412/T/1

100



C. 27/11. H/KL.
2/1/76.

3rd March, 1976.

Dear Sir,

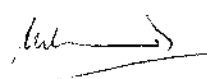
Rivers (Prevention of Pollution) Acts 1951-1961
Dolgellau, Pen-y-bont-y-ddu Sewerage and
Sewage Disposal Scheme

With reference to your application of 29th October 1971, the Dyfed River Authority, in pursuance of their powers under the above Acts, hereby consent to the making of a new discharge of treated sewage effluent into the River Newdâch at existing outfall (Grid Reference 711180) in accordance with the plans submitted and subject to the following conditions:-

1. The volume of effluent discharged under dry weather flow conditions shall not exceed 430,000 gallons (1,954,720 litres) in any period of 24 hours.
2. The sewage effluent discharge shall at no time:-
 - (a) Contain more than 60 milligrams per litre of suspended solids (dried at 105° C).
 - (b) Take up more than 4.0 milligrams per litre of dissolved oxygen in 5 days at 20° C.
 - (c) Contain any matter to such an extent as to cause the water in the stream to be poisonous to fish, fish spawn or the food of fish.
3. The pH value of the treated effluent shall not be more than 9 nor less than 6.
4. Sampling facilities shall be provided to enable samples of the effluent to be taken prior to admixture with the stream water.

The terms of this consent will not, without the consent in writing of the person to whom this consent is given (or his successor), be altered before the expiration of the period ending with the 31st day of March, 1976.

Yours faithfully,


Clerk of the Authority

The Clerk,
Dolgellau Urban District Council,
Council Offices,
Mill Street,
DOLGELLAU,
Merioneth.

Copy of letter sent to Messrs. C. L. L. Brains & Partners, Consulting Engineers, Jotham's Buildings, 26/27, St. Mary Street, Cardiff, CF1 2AD.
sent to Dolgellau Rural District Council.

Small cluster of black specks at the top center of the page.



WELSH OFFICE

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

WHEREAS

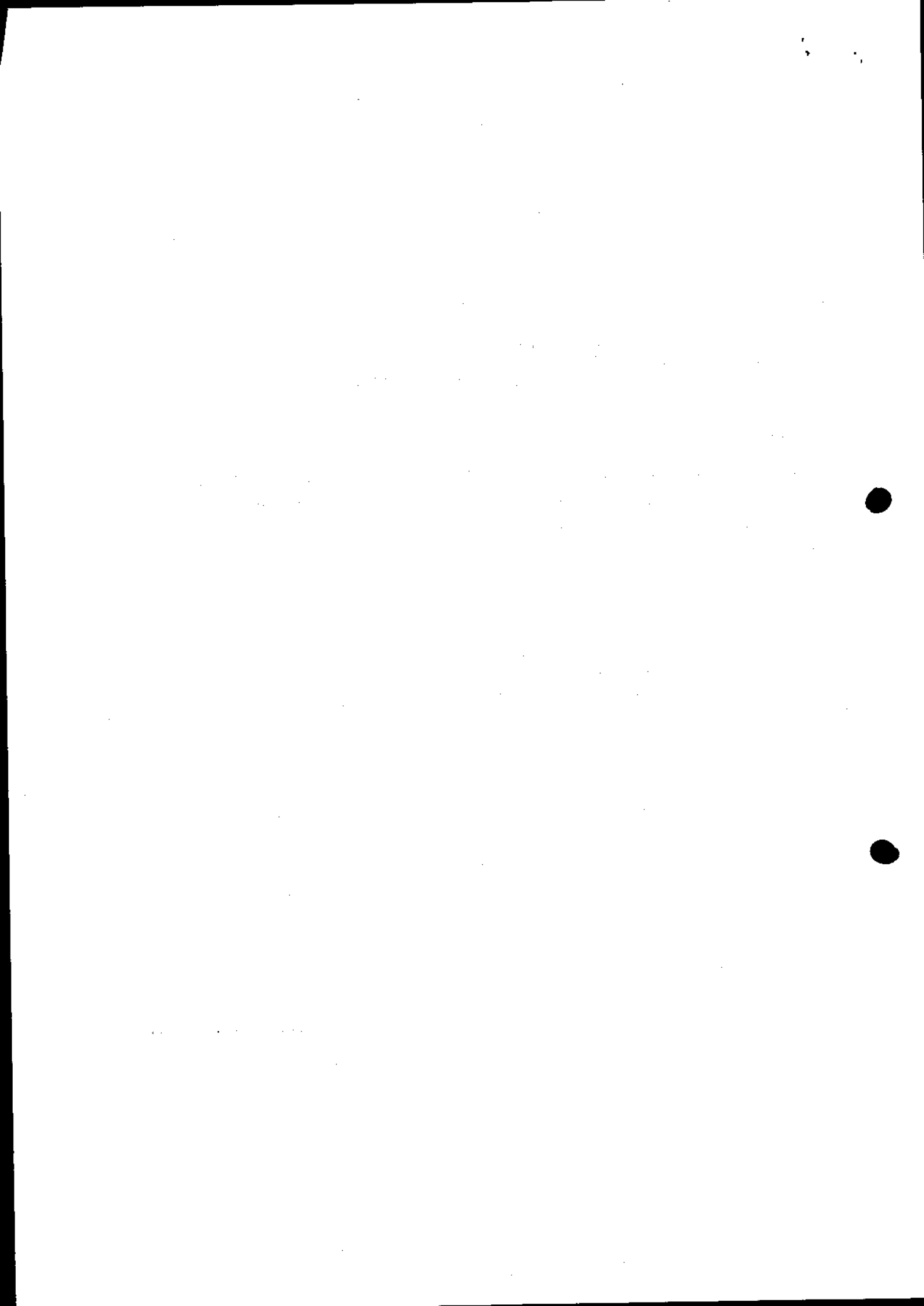
1. The WELSH WATER AUTHORITY (hereinafter referred to as 'the Water Authority') proposes to discharge storm sewage tank effluent to the Afon Mawddach from the Dolgellau Sewage Treatment Works at national grid reference SH 7107 1895 as shown on the attached plan.
2. The proposals require the consent of 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 19 December 1988.

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

Signed
A. P. Evans

On behalf of the Secretary
of State for Wales

Dated this 21 day of June
1989



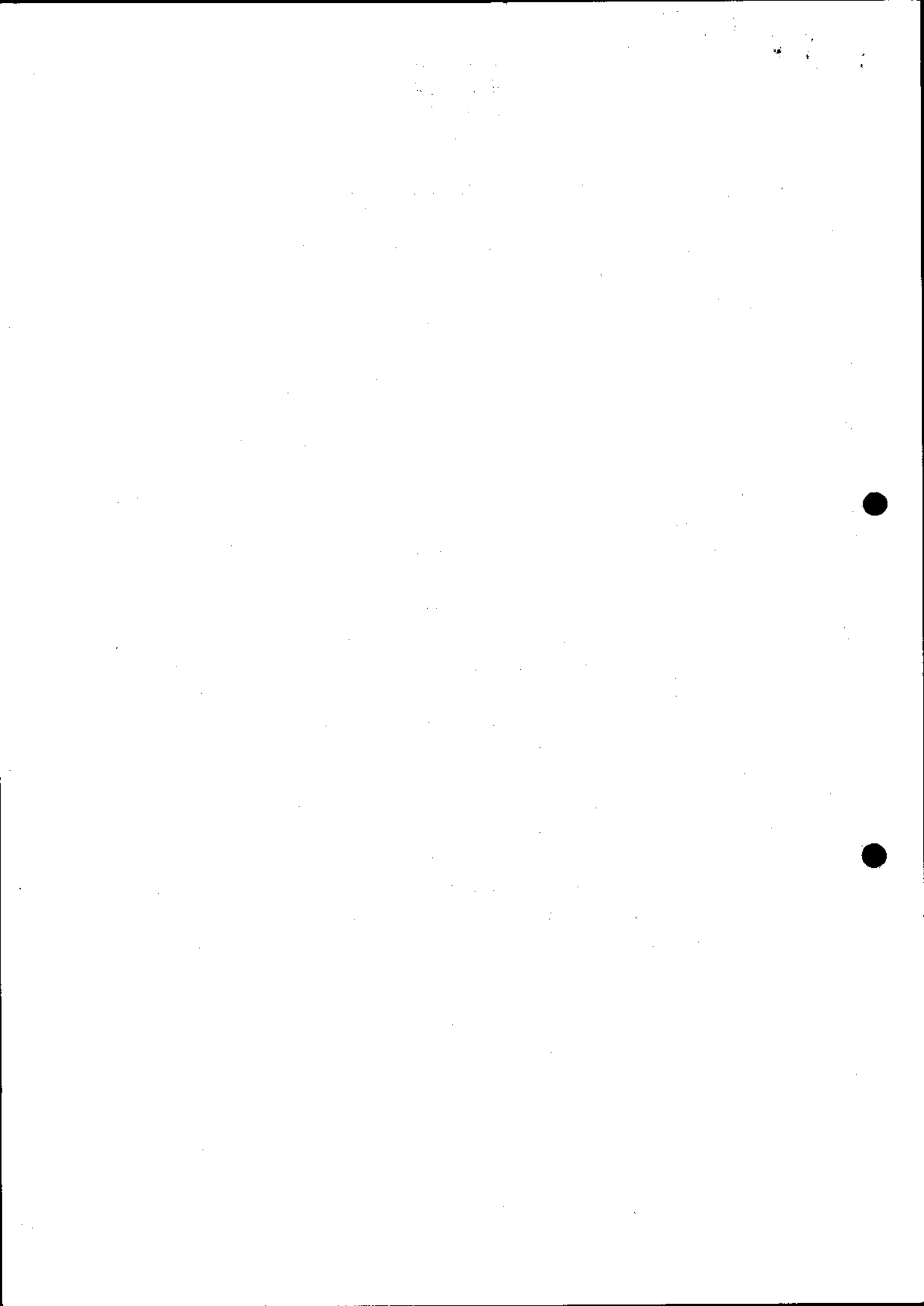
SCHEDULE

Conditions prescribed for the discharge of settled storm sewage from the Dolgellau Sewage Treatment Works to the Afon Mawddach at Grid Reference SH 7107 1895

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

1. The effluent discharged shall consist only of settled storm sewage.
2. The sewage at all flow rates into the plant between 3880 cubic metres per day (45 litres per second) and 20736 cubic metres per day (240 litres per second) shall receive settlement. The period of settlement shall not be less than 0.91 hours at the maximum rate of flow into the storm tank(s) (being the difference between the two flow rates quoted above) and the rise rate in the tank(s) (being the maximum flow rate divided by the tank(s) cross-sectional area at the water surface) shall not be greater than 2.86 metres per hour.
3. As soon as is practicable after cessation of storm sewage flows into the tank(s), the tank(s) contents shall be discharged for biological treatment and the tank(s) cleaned. Under no circumstances shall the tank contents be allowed to remain in the tank(s) until such time as advanced anaerobiosis or large visible algae growths occur.
4. All the provisions of this consent shall come into operation on the works commissioning date. The Authority shall inform the Welsh Office (HMIP) of the commissioning date at least one calendar month prior to this date.

A. Pearce
21.6.89



WELSH WATER AUTHORITY						Welsh Office Form COPA4		Welsh Off Ref		CG 00825 02															
SUPPORTING INFORMATION FOR CONSENT/REVIEW - WWA Form SS.SI.1						Welsh W A Ref		CG 00825 02																	
DISCHARGER +Agent: WELSH WATER AUTHORITY						WWA District		N / S																	
PREMISES / SOURCE Address/Location: DOLGELLAU STW, BONTWERNDU, DOLGELLAU, GWYNEDD.																									
DISCHARGE TYPE: STORM TANK EFFLUENT																									
DISCHARGE STATUS: New reqg Consent <input checked="" type="checkbox"/> Exg reqg Review <input type="checkbox"/> Exg reqg Consent <input type="checkbox"/> Prevly Exempt <input type="checkbox"/> Temply until <input type="checkbox"/>																									
CONSENT / REVIEW EXXSCOME - issued To: - By: - Date: -																									
ADVERTISEMENT ? Yes / No because: NEW DISCHARGE																									
OUTLET DETAILS: New / Altered / Exg OS Ref SH7107 1895 Diam 500 mm Form CONCRETE																									
SAMPLING POINT: TDIB SPT - OS Ref SH7130 1828 Outlet / FORM TO BE DETERMINED																									
DISCHARGE IS TO: Inland Stream <input type="checkbox"/> Land Pond <input type="checkbox"/> Onto Land <input type="checkbox"/> Into Land <input type="checkbox"/> Groundwtr <input type="checkbox"/> Estuary <input checked="" type="checkbox"/> Coastal <input type="checkbox"/>																									
RECEIVING WATER: Immediate XXXX AFON MAWDDACH / 0 kms >																									
Water in current RQO Programme ?						Data for :		Current Situatn		Short-term RQO		Long-term RQO		TDIB SPT Refs											
Immed. Yes / No						Assessed by :		NWC		Biol		NWC		Biol		by		NWC		Biol		by		Up / Down	
Main Yes / No						Immed. Up / Down		1A /		100 / 87		/		/		19		1A /		/		19		SEE / NOTE	
						Main Up / Down		/		/		/		/		19		/		/		/			
USE(S) OF THE RECEIVING WATER, whether surface or groundwater						Exg / Future Use(s)		PotWS		IndWS		AgrWS		Stock		SalFish		CrfsFish		WSports		VisAmen		Other	
Of Immed R.W. @ km														0						0					
Of Main R.W. @ km																									
Effect of discharge on uses, etc.						REMOVES A DISCHARGE WHICH IS PRESENTLY PREJUDICIAL TO DOWNSTREAM USES.																			
EFFLUENT QUALITY DATA - derived from: samples taken from: to :						Determinand		N/A																	
						Maximum																			
						Minimum																			
						Mean																			
						Standard Deviation																			
						Median / 50%ile																			
(mg/l except pH)						95%ile: N / LN / NP																			
QUALITY LIMITS (mg/l except pH) S/W if seasonal 1/2 if phased						Existing																			
						Proposed 95%ile																			
						Proposed Maximum																			
						Application																			
CALCULATION MODE						To Quality Spec'n																			
						Method used																			
EFFLUENT FLOW DATA						P Popul'n No.		G Consum'n m³/h/d		PG Sewage m³/d		I Infilt'n m³/d		E Trade m³/d		PG+I+E DWF m³/d		Storm Sewage Of flow Weir Setting x DWF		1/sec		Maximum Rate 1/sec		Maximum Daily Vol m³/d	
Existing Design						FORECAST		FLOWS		1971						1960									
Meas/Esed Current																1863									
Proposed Design																1863		3		45		240			
Ultimate Design																		2008		3680 m³/d		20736 m³/d			
Design Horizons: Proposed: 2011 Ultimate:						Sewerage system is 84 % combined		Flow values for Consent Conditions		Existing		N/A		Proposed		1863		3		4		240			

Winter Theoretical Design 2011
 1300 0.16 592 803 377 1772
 1776 (13)

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: SH7107 1894			Meas / Estd at OSGR:					
Catchment Losses Method			Minimum	5%ile	Mean	Minimum	5%ile	Mean			
			95040								
Effluent Statistic	Source of Data	Effluent Volume	Dilution Ratios - expressed as x River : 1 Effluent								
D.W.F.	Meas / Estd										
Maximum	Meas / Estd		5.6								
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	-	2 tanks		
Storm S. Of flow*	Set @ 1/s	NONE	45		" "	Volume	m ³	-	122.7m ² each		
Screens	Space mm		1.5mm*		Septic Tank	Volume	m ³		320m ³ per tank		
Well Retent'n.	Hours				Biol. Filters	Media	m ³				
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	FLUME	MAGNETIC FLOW METER		Pasveer Ditch#	Volume	m ³				
Grit Removal	Yes / No				Final Sett't.	Area	m ²				
Macer'n/Commh.	Yes / No				Tert'y Treat.*	Area	m ²				

Other Units and Details: * Type # Power FINE SCREEN, ELECTRICALLY ACTIVATED VALVE CONTROLLED BY MAGNETIC FLOWMETER SO THAT FLOW TO FULL TREATMENT DOES NOT EXCEED 45 LS⁻¹

SLUDGE TREAT. AND DISPOSAL: SLUDGE HOLDING TANK TO HOLD WORKS SLUDGE AND STORM SLUDGE. TO LAND AFTER DIGESTION AT LOCAL AREA SLUDGE DIGESTER.

TRADE WASTES Types & m³/d: FELLMONGERY EFFLUENT, TWO CONSENTED FACTORIES, TOTAL VOLUME 257 m³d⁻¹ ONLY ONE FELLMONGER IN OPERATION CONSENTED AT 182 m³d⁻¹

FURTHER DATA & STATEMENT From Dist/Div. Additional conditions Nearby efflts and changes EC Dangerous Substances EC Designated Waters SSSIs (Continue on Form SS.SI.2 if necessary)

* 1.5 mm WEDGE WIRE 'CONTRASHEAR' TYPE SCREEN

△ THE THEORETICAL FUTURE FLOWS TO 2011 ARE LOWER THAN THE 1986 DWF AND THEREFORE THE MEASURED FLOW HAS BEEN TAKEN AS DESIGN SUFFICIENT TO 2011. HIGH INFILTRATION HAS CLOUDED THE ISSUE.

TWO CAPITAL AND ONE MINOR WORKS SCHEMES HAVE BEEN PROGRAMMED TO REDUCE INFILTRATION IN THE SEWERAGE CATCHMENT.

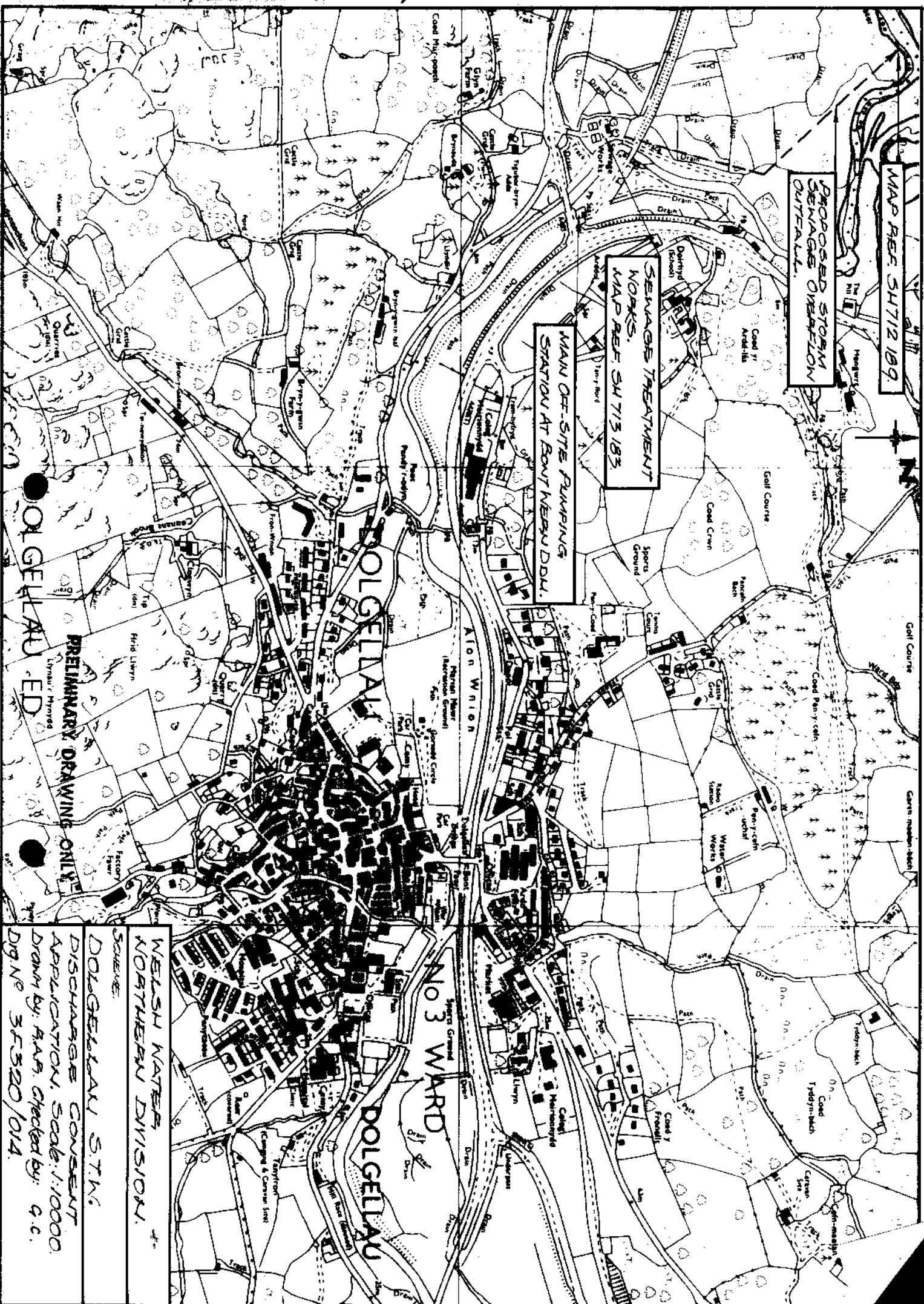
- 1991/92 £110,000 SURFACE WATER SEWER SCHEME
- 1992/93 £124,000 SEWER RECONSTRUCTION. FFOS Y FELIN
- MINOR SCHEME MARION MAWR, COLLAPSE LEADING TO INFILTRATION FROM SURFACE WATER. TO BE RECTIFIED.

FELLMONGERY FLOWS SIGNIFICANTLY REDUCED DUE TO CLOSURE OF ONE SITE AND PARTIAL PRODUCTION AT OTHER IN DECEMBER 1988.

CAPITAL WORKS	Outline Appra	—	Second Appra	04 88/89	Final Appra	04 88/89	Start	01 89/90	Finish	04 89/90
District Ref	64/5/S23		District Contact	R. P. DALE			HQWS Ref			

For use by: HQ WATER QUALITY SECTION

For use by: WELSH OFFICE



MAP REF. SW 712 189

PROPOSED STORM SEWAGE OVERFLOW OUTFALL.

SEWAGE TREATMENT WORKS, MAP REF. SW 713 183

MAN-ON-SITE PUMPING STATION AT BOUT NEWBY DDA.

DOLGELLAU

DOLGELLAU

NO 3 WARD

DOLGELLAU

PRELIMINARY DRAWING ONLY

WELSH WATER NORTH-WESTERN DIVISION.
 SCALE
 DOLGELLAU S.T.W.
 DISCHARGE CONSENT APPLICATION. SCALE: 1:10000
 Drawn by: A.A.B. Checked by: G.C.
 DGN# 31520/014.

WELSH OFFICE

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

WHEREAS

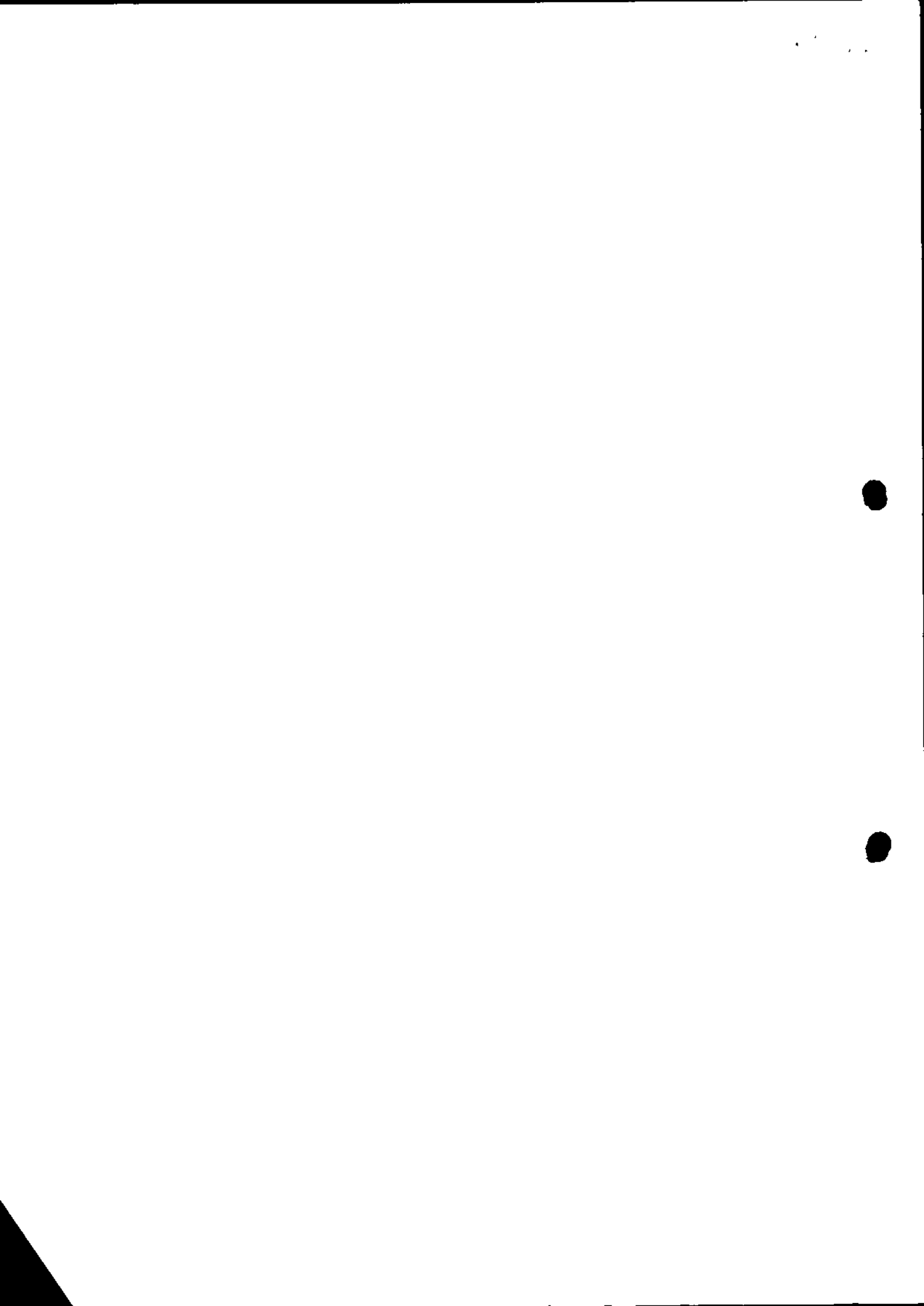
1. The WELSH WATER AUTHORITY (hereinafter referred to as 'the Water Authority') proposes to discharge storm sewage tank effluent to the Afon Mawddach from the Dolgellau Sewage Treatment Works at national grid reference SH 7107 1895 as shown on the attached plan.
2. The proposals require the consent of 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 19 December 1988.

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

Dated this 21 day of June
1989

Signed 

On behalf of the Secretary
of State for Wales



SCHEDULE

Conditions prescribed for the discharge of settled storm sewage from the Dolgellau Sewage Treatment Works to the Afon Mawddach at Grid Reference SH 7107 1895

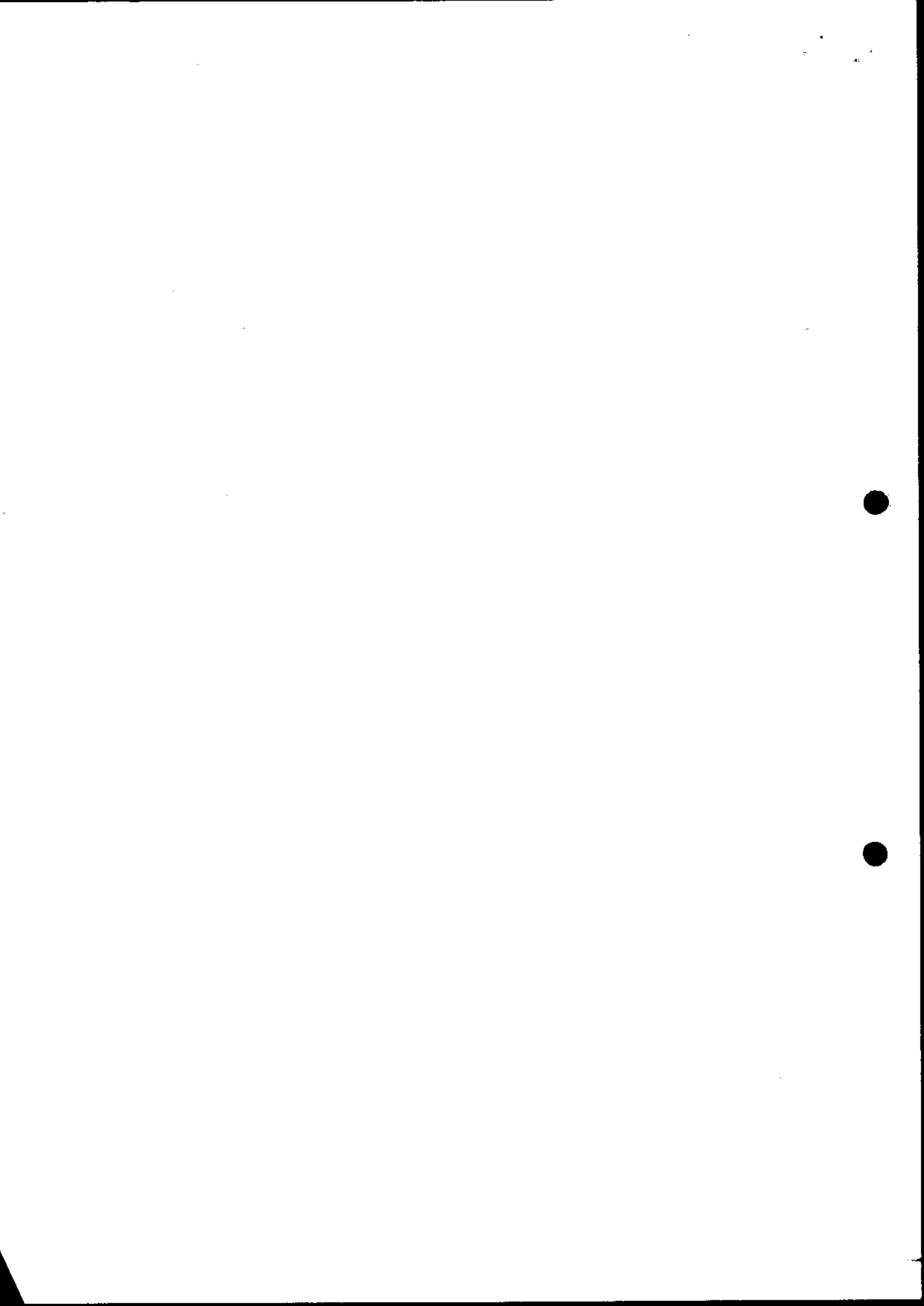
"Sewage" can mean domestic sewage alone or in admixture with industrial waste water(s).

1. The effluent discharged shall consist only of settled storm sewage.
2. The sewage at all flow rates into the plant between 3880 cubic metres per day (45 litres per second) and 20736 cubic metres per day (240 litres per second) shall receive settlement. The period of settlement shall not be less than 0.91 hours at the maximum rate of flow into the storm tank(s) (being the difference between the two flow rates quoted above) and the rise rate in the tank(s) (being the maximum flow rate divided by the tank(s) cross-sectional area at the water surface) shall not be greater than 2.86 metres per hour.
3. As soon as is practicable after cessation of storm sewage flows into the tank(s), the tank(s) contents shall be discharged for biological treatment and the tank(s) cleaned. Under no circumstances shall the tank contents be allowed to remain in the tank(s) until such time as advanced anaerobiosis or large visible algae growths occur.
4. All the provisions of this consent shall come into operation on the works commissioning date. The Authority shall inform the Welsh Office (HMIP) of the commissioning date at least one calendar month prior to this date.

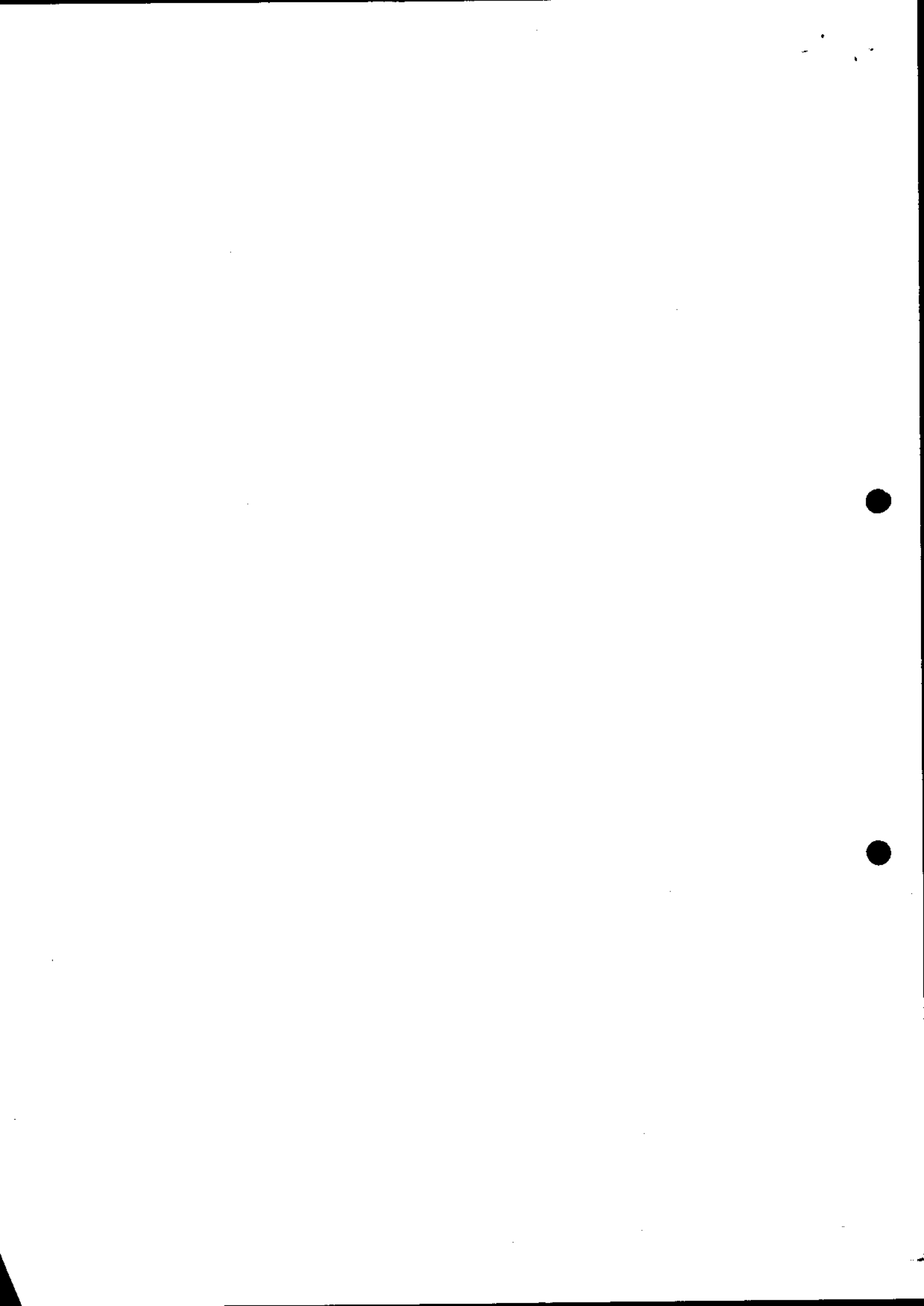
Handwritten signature
21.6.89

WELSH WATER AUTHORITY Welsh Office Form COPA4						Welsh Off Ref		CG 00825 02																	
SUPPORTING INFORMATION FOR CONSENT/REVIEW - WWA Form SS.SI.1						Welsh W A Ref		CG 00825 02																	
DISCHARGER +Agent: WELSH WATER AUTHORITY						WWA District		N / S																	
PREMISES / SOURCE Address/Location: DOLGELLAU STW, BONTWERNDU, DOLGELLAU, GWYNEDD																									
DISCHARGE TYPE: STORM TANK EFFLUENT																									
DISCHARGE STATUS: New reqg Consent <input checked="" type="checkbox"/> Exg reqg Review <input type="checkbox"/> Exg reqg Consent <input type="checkbox"/> Prevly Exempt <input type="checkbox"/> Temp'y until <input type="checkbox"/>																									
CONSENT / REVIEW XXXXXXX - issued						To: -		By: -		Date: -															
ADVERTISEMENT ? Yes / No because: NEW DISCHARGE																									
OUTLET DETAILS: New / Altered OS Ref SH7107 1895						Diam 500 mm		Form CONCRETE																	
SAMPLING POINT: TDIB SPT - OS Ref SH7130 1828						Outlet / FORM TO BE DETERMINED																			
DISCHARGE IS TO: Inland Stream <input type="checkbox"/> Landl.Pond <input type="checkbox"/> Onto Land <input type="checkbox"/> Into Land <input type="checkbox"/> Groundwtr <input type="checkbox"/> Estuary <input checked="" type="checkbox"/> Coastal <input type="checkbox"/>																									
RECEIVING WATER: Immediate / XXXX AFON MAWDDACH / 0 kms >																									
Water in current RQO Programme ?						Data for :		Current Situath		Short-term RQO		Long-term RQO		TDIB SPT Refs											
Assessed by :						NWC		Biol		NWC		Biol		by		Up / Down									
Immed. Yes / No						1A /		100 / 87		/		/		19		1A / / 19		SEE / NOTE							
Main Yes / No						/		/		/		/		19		/		/							
USE(S) OF THE RECEIVING WATER, whether surface or groundwater						Exg / Future Use(s)		PotWS		IndWS		AgrWS		Stock		SalFish		CrsFish		WSports		VisAmen		Other	
Of Immed R.W. @ km														0						0					
Of Main R.W. @ km																									
Effect of discharge on uses, etc.						REMOVES A DISCHARGE WHICH IS PRESENTLY PREJUDICIAL TO DOWNSTREAM USES.																			
EFFLUENT QUALITY DATA - derived from: samples taken from: to : (mg/l except pH)						Determinand		N/A																	
Maximum																									
Minimum																									
Mean																									
Standard Deviation																									
Median / 50%ile																									
95%ile: N / LN / NP																									
QUALITY LIMITS (mg/l except pH)						Existing																			
S/W if seasonal 1/2 if phased						Proposed 95%ile																			
Proposed Maximum																									
Application																									
CALCULATION MODE						To Quality Spec'n																			
Method used																									
EFFLUENT FLOW DATA						P Popul'n No.		G Consum'n m³/h/d		PG Sewage m³/d		I Infilt'n m³/d		E Trade m³/d		PG+I+E DWF m³/d		Storm Sewage Of flow Weir Setting x DWF		1/sec		Maximum Rate 1/sec		Maximum Daily Vol m³/d	
Existing Design						FORECAST		FLOWS		1971						1960									
Meas/ Est Current																1863									
Proposed Design																1863		3		4.5		240			
Ultimate Design																2.08		3680		207.21		311			
Design Horizons:						Proposed: 2011		Ultimate: 2011		Sewerage system is 84% combined		Flow values for Consent Conditions		Existing		N/A									
Winter						1300		0.16		592		803		377		1772									
Proposed																1863		3		4		240			

Winter 1300 0.16 592 803 377 1772



SUPPORTING INFORMATION FOR A CONSENT / REVIEW (CONTINUED) Form SS.SI.1						Welsh Off Ref		5.3.14.1.1					
Relating to: SCREENED STORM SEWAGE						Welsh W A Ref		CG 0082502					
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 / Est. - GR: SH7107 1894			Meas / Estd at OSGR:							
Catchment Losses Method			Minimum	5%ile	Mean	Minimum	5%ile	: Mean					
Effluent Statistic			95040										
Source of Data			Dilution Ratios - expressed as x River : 1 Effluent										
D.W.F.			Meas / Estd										
Maximum			5.6										
RIVER REGIME		Width, Depthn & 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	-		2 tanks			
Storm S. Of flow	Set @ 1/s	NONE	45		" "	Volume	m ³	-		122.7m ² each			
Screens	Space mm		1.5mm*		Septic Tank	Volume	m ³	-		320m ³ per tank			
Well Retent'n.	Hours				Biol. Filters	Media	m ³						
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	XX	FLUME	MAGNETIC FLOW METER	Pasveer Ditch#	Volume	m ³						
Grit Removal	Yes / No				Final Sett't.	Area	m ²						
Macer'n/Commh.	Yes / No				Tert'y Treat.*	Area	m ²						
Other Units and Details	* Type # Power	FINE SCREEN, ELECTRICALLY ACTIVATED VALVE CONTROLLED BY MAGNETIC FLOWMETER SO THAT FLOW TO FULL TREATMENT DOES NOT EXCEED 45 LS ⁻¹											
SLUDGE TREAT. AND DISPOSAL	SLUDGE HOLDING TANK TO HOLD WORKS SLUDGE AND STORM SLUDGE. TO LAND AFTER DIGESTION AT LOCAL AREA SLUDGE DIGESTER.												
TRADE WASTES Types & m ³ /d	FELLMONGERY EFFLUENT, TWO CONSENTED FACTORIES, TOTAL VOLUME 257 m ³ d ⁻¹ ONLY ONE FELLMONGER IN OPERATION CONSENTED AT 182 m ³ d ⁻¹												
FURTHER DATA & STATEMENT From Dist/Div. Additional conditions Nearby effluents & changes EC Dangerous Substances EC Designated Waters SSSIs (Continue on Form SS.SI.2 if necessary)	<p>* 1.5 mm WEDGE WIRE 'CONTRASHEAR' TYPE SCREEN</p> <p>▲ THE THEORETICAL FUTURE FLOWS TO 2011 ARE LOWER THAN THE 1986 DWF AND THEREFORE THE MEASURED FLOW HAS BEEN TAKEN AS DESIGN SUFFICIENT TO 2011. HIGH INFILTRATION HAS CLOUDED THE ISSUE.</p> <p>TWO CAPITAL AND ONE MINOR WORKS SCHEMES HAVE BEEN PROGRAMMED TO REDUCE INFILTRATION IN THE SEWERAGE CATCHMENT.</p> <ol style="list-style-type: none"> 1991/92 £110,000 SURFACE WATER SEWER SCHEME 1992/93 £124,000 SEWER RECONSTRUCTION. FFOS Y FELIN MINOR SCHEME MARION MAWR, COLLAPSE LEADING TO INFILTRATION FROM SURFACE WATER. TO BE RECTIFIED. <p>FELLMONGERY FLOWS SIGNIFICANTLY REDUCED DUE TO CLOSURE OF ONE SITE AND PARTIAL PRODUCTION AT OTHER IN DECEMBER 1988.</p>												
CAPITAL WORKS	Outline Appra	—	Second Appra	04 88/89	Final Appra	04 88/89	Start	01 89/90	Finish	04 89/90			
District Ref	64/5/S23		District Contact	R. P. DALE			HQWS Ref						
For use by: HQ WATER QUALITY SECTION													
For use by: WELSH OFFICE													

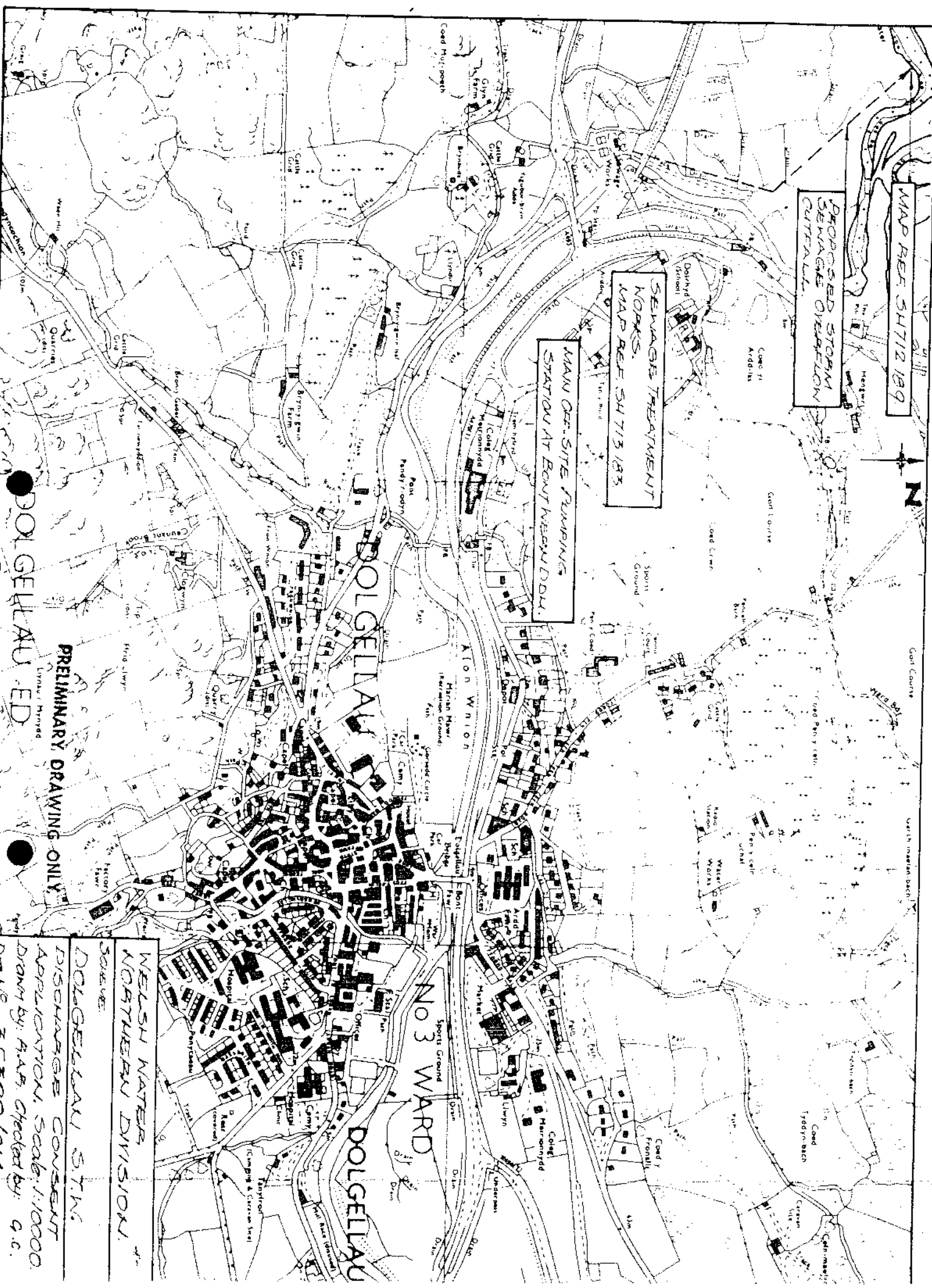


MAP REF. SH712 189

PROPOSED STORM SEWAGE DIRECTION OUTFALL

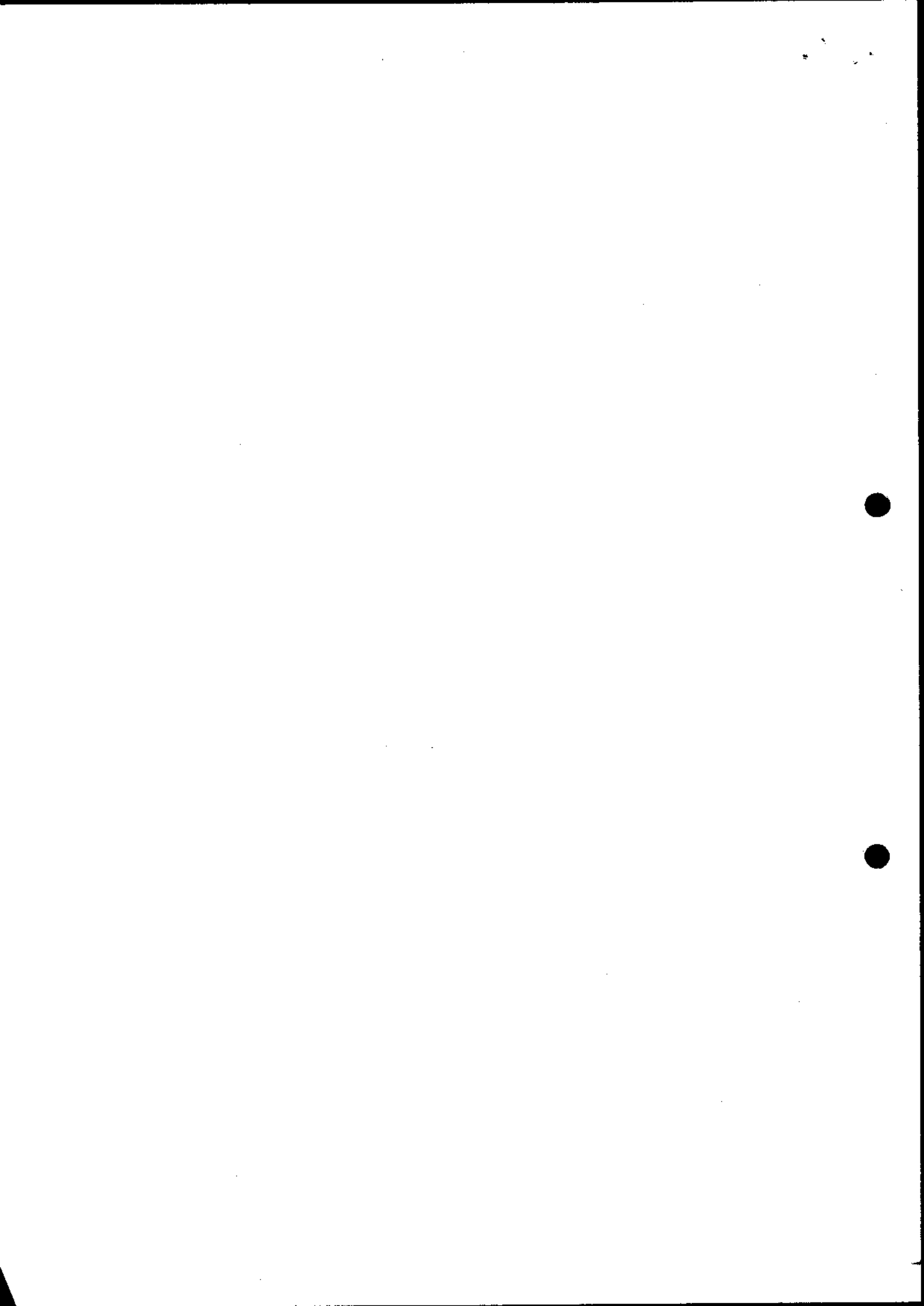
SEWAGE TREATMENT WORKS. MAP REF. SH713 183

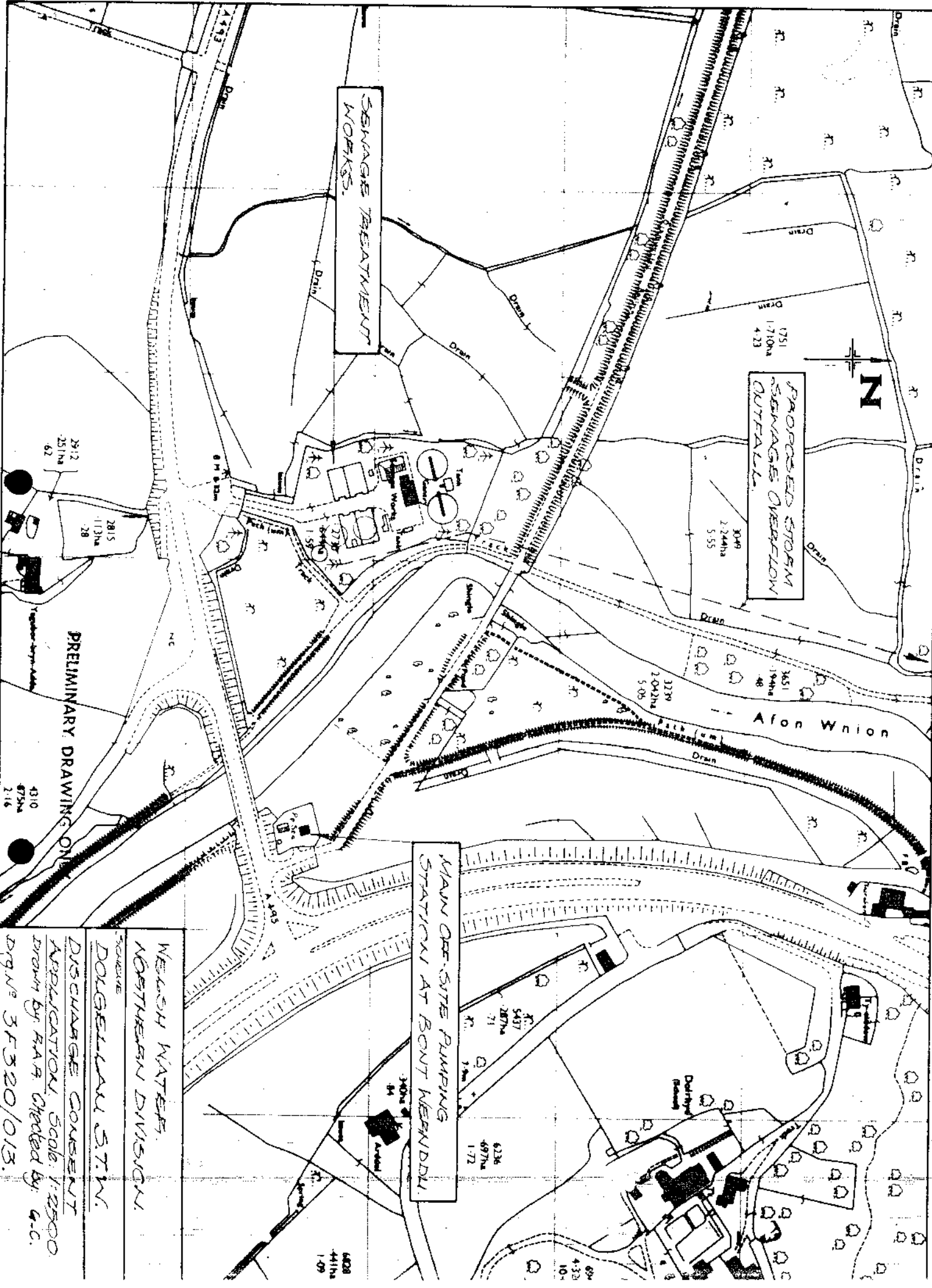
MAIN OFF-SITE PUMPING STATION AT BONT NEWYDD.



DOLGELLAU ED
PRELIMINARY DRAWING ONLY

WELSH WATER
NORTHERN DIVISION
DOLGELLAU STN.
DISCHARGE CONSENT
APPLICATION. SCALE 1:10000
DRAWN BY A.A.S. CHECKED BY: G.C.
Dwg No 31520/014





SEWAGE TREATMENT WORKS.

PROPOSED STORM SEWAGES OVERFLOW OUTFALL.

MAIN OFF-SITE PUMPING STATION AT BOUT WEADELL.

PRELIMINARY DRAWING ON

Afon Wnion

N

WELSH WATER,
NORTHERN DIVISION
SCHEDULE
DOLGELLAU ST.W.
DISCHARGE CONSENT
APPLICATION, Scale: 1:2500
Drawn by R.A.A. Checked by G.C.
Dgn. 3F320/013.

2912
257ha
62

2815
113ha
28

1751
1710ha
423

3049
224ha
555

3276
2042ha
505

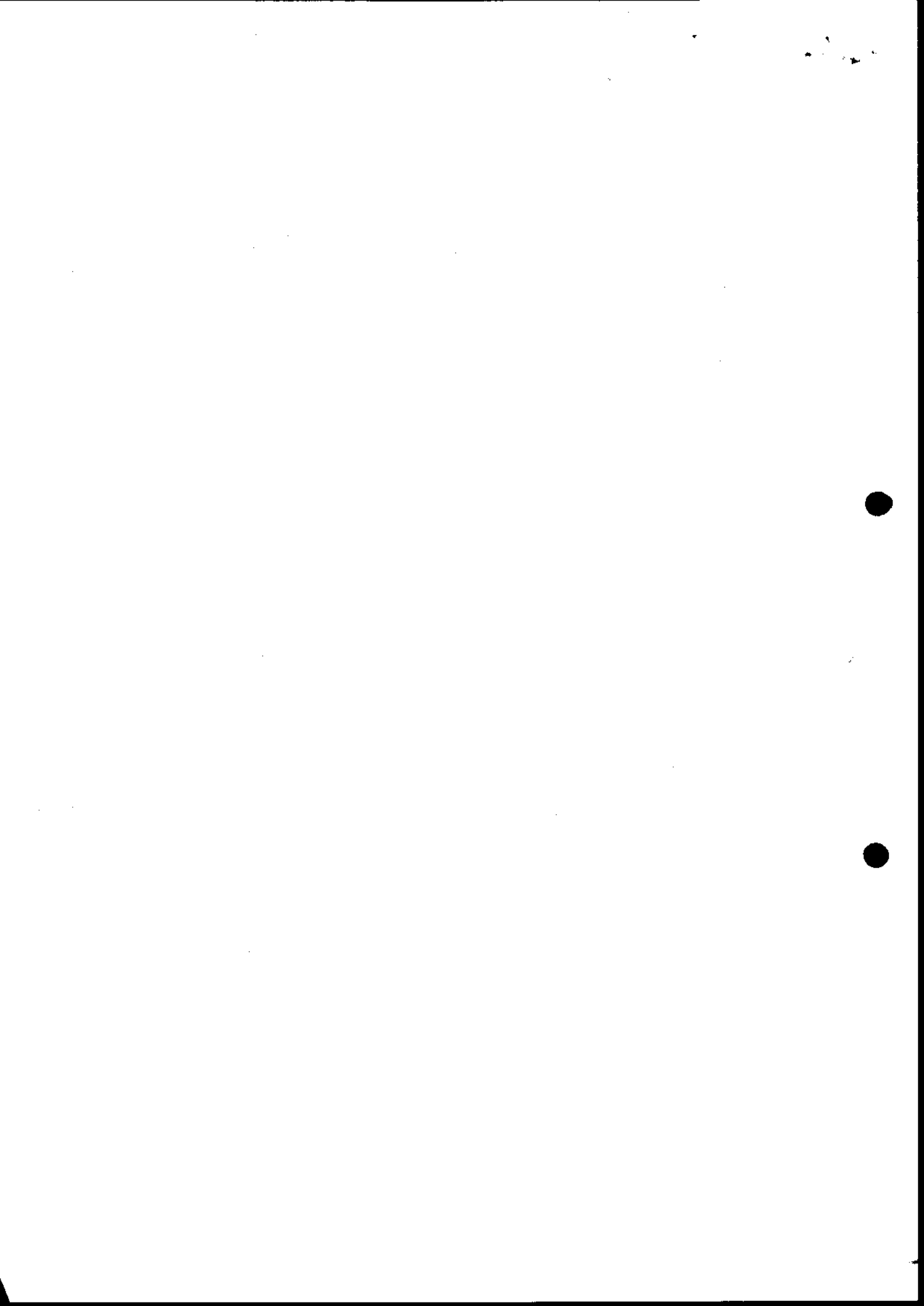
3451
194ha
48

5457
287ha
71

6226
697ha
172

4628
44ha
109

432
10-





**ENVIRONMENT AGENCY WALES
NORTHERN AREA
CONSENT REVIEW 2004**

UWWTD

[URBAN WASTE WATER TREATMENT DIRECTIVE 1991]

FILE NOTE

A snapshot of WRA 91 Discharge Consents qualifying for review under UWWTD was extracted from WIMS (EA electronic Public Register) on the 21st April 2004. All details shown on this file note are based on the permission extant as of this date.

CONSENT REF :	CG0082501	VERSION :	2		
OPERATOR :	DWR CYMRU CYFYNGEDIG				
DISCHARGE SITE :	DOLGELLAU STW				
EXTANT CONSENT ISSUE DATE :	02/12/1987	EFFECTIVE DATE :	02/12/1987		
DWF (m ³ /day) :	1772	MAX DAILY VOL. (m ³ /day) :	UNSPECIFIED	RATE (l/s) :	42.7

Records held on WIMS show DOLGELLAU STW (CG0082501) to be extant under version 2 issued 02/12/1987 with numeric consent conditions, effective 02/12/1987. The works is currently consented to discharge a max daily volume of UNSPECIFIEDm³/day effluent to the MAWDDACH at NGR SH7107018940.

UWWTD directive aims to deliver a standard level of sewage treatment throughout EC member states. This has been interpreted as prescribing a minimum of secondary biological treatment (package plant or equivalent) on all discharges made to a controlled surface water; or a minimum of primary (septic tank or equivalent) treatment on all discharges made to ground.

The discharge of UNSPECIFIEDm³/day effluent to 'MAWDDACH', for the purposes of this review, is described as 'secondary treated effluent to surface waters'. This treatment / receiving water combination has been assessed* as APPROPRIATE under the UWWTD review. This consent is reviewed as APPROPRIATE under UWWTD as of 01/09/2005.

* NB: the assessment of this Discharge Consent to meet UWWTD 'appropriate treatment' criteria is based solely on provision of the appropriate 'threshold' level of minimum treatment for the receiving medium. This review does not assess appropriateness in terms of the specific river needs of the receiving water stretch.

Iwan Williams
Regulatory Team Leader (Water Quality)

