

WATER RESOURCES ACT 1991

Consent No. CG0314701

Under Section 88 and Schedule 10 of the Water Resources Act 1991 and all other enabling powers the National Rivers Authority hereby serves this Notice

R E V I E W O F C O N S E N T

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To : Dŵr Cymru Cyfyngedig,

Of : Plas y Ffynnon, Cambrian Way, Brecon, Powys LD3 7HP

In respect of the previous Consent No. CG0314701 issued on : 8th October 1991

For : a discharge of sewage effluent

To : Afon Ogwen

From : Talybont Sewage Treatment Works near Bangor

THE FOLLOWING REPLACE ALL PREVIOUS CONDITIONS

1. The discharge shall consist solely of biologically treated sewage effluent.
2. The discharge shall be made in the manner and at the place specified as follows:-

Discharging via : A 225 mm clayware pipe

Discharging to : Afon Ogwen

At OS Grid Ref. : SH 6022 7078

As shown marked : Discharge Point on the attached plan

continued.....

WATER RESOURCES ACT 1991
 Continuation Sheet

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3. Adequate facilities, approved in writing by the Authority, shall be provided to enable representative samples of the discharge to be safely and conveniently obtained at any time at the sampling chamber at NGR SH 6031 7065 as shown marked 'Sampling Point' on the attached plan.
4. The maximum volume of effluent discharged shall not exceed 855 cubic metres per day.
5. The volume of effluent discharged under dry weather flow conditions shall not exceed 95 cubic metres per day.
6. The maximum rate of flow of effluent discharged shall not exceed 9.9 litres per second.
7. Calibrated apparatus, approved in writing by the Authority, shall be provided and maintained in full working order, to permit the instantaneous rate of flow of effluent discharged to be measured accurately at any time.
8. (a) Subject to paragraph 8(b) below, no sample of the discharge shall contain more than:
 - (i) 100 milligrams per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea);
 - (ii) 100 milligrams per litre of suspended solids (measured after drying at 105°C).
- (b) The limit for any of the relevant parameters set out in paragraph 8(a) may be exceeded where, in any series of samples of the discharge taken at regular but randomised intervals in any period of twelve consecutive months, as listed in Column 1 of the table at Annex 1 to this Consent, no more than the relevant number of samples, as listed in Column 2 of the said table, exceed the applicable limit for that parameter.

continued.....

WATER RESOURCES ACT 1991
 Continuation Sheet

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9. The Authority shall be informed in writing as soon as reasonably practicable of any information received by Dwr Cymru to the effect that there has been or is likely to be discharged into the sewerage system connected to the works, a significant increase in the quantity of any of the substances listed in the attached Annex 2.
10. For the purposes of this consent dry weather flow shall mean the average daily flow to the treatment works during seven consecutive days without rain (excluding a period which includes public holidays) following seven days during which the rainfall did not exceed 0.25 mm on one day.
11. As far as reasonably practicable, the works shall be operated so as to prevent:
 - (a) any matter being present in the effluent, other than matter specifically covered by numerical conditions in this consent, to such an extent as to cause the receiving waters, or any waters of which the receiving waters are a tributary, to be poisonous or injurious to fish in those waters, or to the spawning grounds, spawn or food of fish in those waters, or otherwise cause damage to the ecology of those waters; and
 - (b) the treated effluent from having any adverse environmental impact.
12. No sample of sewage effluent taken at a time when Sections 87 (2) or 89 (1) of the Water Resources Act 1991 apply, and the operation of the sewage treatment works is consequently adversely affected, shall be taken into account in deciding whether or not the conditions contained in paragraphs 8(a) & 8(b) of this consent have been complied with.
13. On each occasion that the sewage treatment works is not under normal operating conditions for the reasons in 12, the discharger shall use its best endeavours to mitigate any adverse effect and shall notify the Authority by telephone/telefax as soon as practicable and confirm in writing within 14 days of occurrence of such conditions. That notification shall include a full description of the abnormal operating conditions and their impact on the operation of the works.

continued.....

WATER RESOURCES ACT 1991
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14. No samples of sewage effluent taken at a time when unusual weather conditions are adversely affecting the operation of the sewage treatment works, shall be taken into account in deciding whether or not the conditions contained in paragraphs 8(a) & 8(b) of this consent have been complied with.
15. For the purpose of this condition "unusual weather conditions" shall include:
 - (I) low ambient temperatures as evidenced by effluent temperatures of 5°C or less, or by freezing of mechanical equipment in the works;
 - (II) significant snow deposits;
 - (III) tidal or fluvial flooding;
 - (IV) weather conditions causing unforeseen loss of power supply to the sewage treatment which could not be ameliorated by the reasonable provision and operation of standby generation facilities.
16. On any occasion where unusual weather conditions adversely affect the operation of the sewage treatment works, the discharger shall use its best endeavours to mitigate that adverse effect. The discharger shall notify the NRA by telephone/telefax as soon as unusual weather conditions are known to have adversely affected operations and shall confirm the circumstances in writing as soon as possible thereafter (and in any event within 14 days of the occurrence of such conditions). That notification shall include a full description of the unusual weather conditions and their effect on the operation of the works.

This Notice is given on: 3rd February 1995 on behalf of the Authority
 by: [Signature] Regional Consents and Environment Manager

During the period ending with the 2nd February 1997 the terms of this Notice will not be altered without the written agreement of the person making the discharge.

ANNEX 1

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TABLE

<u>Column 1</u>	<u>Column 2</u>
Number of samples taken in any period of 12 months	Maximum number of samples permitted to exceed limit for given determinand
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

continued.....

ANNEX 2

SUBSTANCE

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Mercury	Vanadium
Cadmium	PCSDs
g-Hexachlorocyclohexane	Cyfluthrin
DDT	Sulcofuron
Pentachlorophenol	Flucofuron
Hexachlorobenzene	Permethrin
Hexachlorobutadiene	Cyanide
Aldrin	Azinphos-ethyl
Dieldrin	Fenthion
Endrin	Parathion
Polychlorinated Biphenyls	Parathion-methyl
Dichlorvos	Trichloroethane
1,2 Dichloroethane	Dioxins
Trichlorobenzene	Isodrin
Atrazine	
Simazine	
Tributyltin compounds	
Triphenyltin compounds	
Trifluralin	
Fenitrothion	
Azinphos-methyl	
Malathion	
Endosulphan	
Carbon tetrachloride	
Chloroform	
Trichloroethylene	
Tetrachloroethylene	
Lead	
Chromium	
Zinc	
Copper	
Nickel	
Arsenic	
Iron	
pH	
Boron	

Date: 14th March 2000

44-3 APR 2000
BUCKLEY

B. Williams

Environment Agency Wales
 "Deddf 1970 i Ddiogelwch Cymunedau a Safon Ffôn" / "Safe Communities and Water Quality Act 1970"
 Cardiff CF3 0EY

CONSENT NO.	CGCB/4701
SCHEDULE NO.	

ANNEX

- | | |
|--|------------------------------|
| 1. Mercury and its compounds | 2. Cadmium and its compounds |
| 3. Hexachlorocyclohexane (lindane and related compounds) | 4. Carbon tetrachloride |
| 5. DDT (the isomers of 1,1,1-trichloro-2,2 bis{p-chlorophenyl} ethane) | |
| 6. Pentachlorophenol (PCP) | 7. Aldrin |
| 8. Dieldrin | 9. Endrin |
| 10. Isodrin | 11. Hexachlorobenzene (HCB) |
| 12. Hexachlorobutadiene (HCBd) | 13. Chloroform |
| 14. Polychlorinated biphenyls | 15. Dichlorvos |
| 16. 1,2-Dichloroethane | 17. Trichlorobenzene |
| 18. Atrazine | 19. Simazine |
| 20. Tributyltin compounds | 21. Triphenyltin compounds |
| 22. Trifluralin | 23. Fenitrothion |
| 24. Azinphos-methyl | 25. Malathion |
| 26. Endosulfan | 27. Lead |
| 28. Chromium | 29. Zinc |
| 30. Copper | 31. Nickel |
| 32. Arsenic | 33. *Iron |
| 34. *pH outside range 5.5 to 9.0 | 35. *Boron |
| 36. Vanadium | 37. PCSD'S |
| 38. Cyfluthrin | 39. Sulcofuron |
| 40. Flucifuron | 41. Permethrin |
| 42. 4-Chloro-3-methyl-phenol | 43. 2-Chlorophenol |
| 44. 2,4-Dichlorophenol | 45. 2,4-D (ester) |
| 46. 2,4-D (non ester) | 47. 1,1,1-Trichloroethane |
| 48. 1,1,2-Trichloroethane | 49. Bentazone |
| 50. Benzene | 51. Biphenyl |
| 52. Chloronitrotoluenes | 53. Demeton |
| 54. Dimethoate | 55. Linuron |
| 56. MCPA | 57. Mecoprop |
| 58. Mevinphos | 59. Napthalene |
| 60. Omethoate | 61. Toluene |
| 62. Triazophos | 63. Xylene |
| 64. Cyanide | 65. Azinphos-ethyl |
| 66. Fenthion | 67. Parathion |
| 68. Parathion-methyl | 69. Trichloroethylene |
| 70. Tetrachloroethylene | 71. Dioxins |
| 72. PAHs | 73. Nonyl phenol |
| 74. Nonyl phenyl ethoxylate | 75. Di-ethylhexyl phthalate |
| 76. Bisphenol-A | 77. Diazinon |
| 78. Chlorfenvinphos | 79. Chlorotoluron |
| 80. Isoproturon | 81. Diuron |
| 82. Propetamphos | 83. Flumethrin |
| 84. Amitraz | 85. High-Cis Cypermethrin |
| 86. Cyromazine | 87. Deltamethrin |
| 88. Cypermethrin | |

This list is applicable as at 1 December 1998 and will be updated as and when changes to the relevant legislative requirements occur.

*Notification to the Agency by the Consent holder is only required in respect of changes to trade effluents likely to cause significant changes to the pH value, and/or iron or boron concentrations, of the crude sewage.

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 CG0314701

Nature of Discharge(s); SEWAGE EFF/TREATED EFF/CONTINUOUS
at TALYBONT STW,NR BANGOR

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:**



Mr Selwyn Lewis
Consents Regulation Officer
Dŵr Cymru Cyfyngedig
Plas-y-Ffynnon
Cambrian Way
Brecon
Powys
LD3 7HP

area
COPY

AAC

NRA

February 14, 1995

Dear Selwyn,

APPEAL FOR TALYBONT STW (CG0314701)

Further to: a) The Authority's letter dated 29/11/94
b) Your Company's reply dated 26/1/95
c) Tripartite meeting with the Welsh Office on 3/2/95

please find attached review of consent for the above works. As agreed, please confirm to Welsh Office your withdrawal of appeal dated 11/12/91, copied to myself for our records.

Thank you,



D.K. Thomas
Regional Consents and Environment Manager

CC: Eve Read Welsh Office



DŴR CYMRU
WELSH WATER

Mr D K Thomas
Regional Consents & Environmental Manager
National Rivers Authority
Plas-yr-Afon
St Mellons Business Park
St Mellons
Cardiff
CF1 0LT

Dyddiad/Date:

26 January 1995
Ymholiadau/Enquires:

Ein Cyf/Our Ref:

SHL/CJW/NR6

Eich Cyf/Your Ref:

RT/RCEU/C35/CG0314701

Dear Sir

Water Resources Act 1991, Section 91
Appeal by Dŵr Cymru Cyfyngedig against Conditions of Consent for the Discharge of
Sewage Effluent from Talybont STW to the Afon Ogwen
Consent N° CG0314701

I refer to your letter of 29th November 1994 concerning the above matter and the modified consent document CG0314701/M1 which you have drafted.

If the Authority issue a reviewed consent as modified in the draft document then Dŵr Cymru will withdraw its Appeal to the Secretary of State for Wales.

Yours faithfully

Selwyn Lewis
Consents Regulation Officer

cc Ms J Witchard, Environment Division, Welsh Office

Plas y Ffynnon Ffordd Cambria
Aberhonddu Powys LD3 7HP
Ffôn: Aberhonddu (01874) 623181 Telex: 497429
Teleffacs: (01874) 624167

Dŵr Cymru Cyf, cwmni cyfyngedig wedi'i gofrestru yng Nghymru Rhif 2366777
Un o grŵp cwmnïau Welsh Water PLC
Swyddfa Gollrestredig: Plas y Ffynnon Ffordd Cambria Aberhonddu Powys LD3 7HP



Plas y Ffynnon Cambrian Way
Brecon Powys LD3 7HP
Tel: Brecon (01874) 623181 Telex: 497429
Telefax: (01874) 624167

Dŵr Cymru Cyf, a limited company registered in Wales No 2366777
One of the Welsh Water PLC group of companies
Registered Office: Plas y Ffynnon Cambrian Way Brecon Powys LD3 7HP



Awdurdod Afonydd Cenedlaethol
Rhanbarth Cymru

National Rivers Authority
Welsh Region

WATER ACT 1989

Consent No.

CG03147-01

Under Section 113 and Schedule 12 of the Water Act 1989 and all other enabling powers the National Rivers Authority hereby gives this

C O N S E N T

Page 1 of 3

To : Dwr Cymru CYF (The Company)
Of : Plas-y-Ffynnon, Cambrian Way, Brecon, Powys, LD3 7HP
For : A discharge of biologically treated sewage effluent
To : Afon Ogwen
From: Talybont Sewage Works near Bangor

CONDITIONS OF CONSENT

1. The discharge shall consist only of biologically treated sewage effluent.
2. The discharge shall be made in the manner and at the place specified as follows:-

Discharging via : A 225mm clayware pipe

Discharging to : Afon Ogwen

At OS Grid Ref. : SH 6022 7078

As shown marked : Discharge Point " " on the attached plan

3. Adequate facilities, approved in writing by the Authority, shall be provided to enable representative samples of the discharge to be safely and conveniently obtained at any time at the sampling chamber at NGR SH 6031 7065 as shown marked 'Sampling Point' on the attached plan.
4. The volume of effluent discharged under dry weather flow conditions shall not exceed 95 cubic metres in any period of 24 hours.

See next page for further conditions.

Aelod Rhanbarthol o'r Bwrdd
Yr Athro Ron Edwards

Rheolwr Rhanbarth Cyffredinol
Dr John Stoner

Highfield, Ffordd Priestley
Coernarfon
Gwynedd, LL55 1HR
Ffôn: Coernarfon (0286) 672247
Ffacs: (0286) 4451

Regional Board Member
Professor Ron Edwards

Regional General Manager
Dr John Stoner

Highfield, Priestley Road
Coernarfon
Gwynedd, LL55 1HR
Tel: Coernarfon (0286) 672247
Fâx: (0286) 4451



*Awdurdod Afonydd Cenedlaethol
Rhanbarth Cymru*

*National Rivers Authority
Welsh Region*

WATER ACT 1989

Consent No. CG03147-01

Under Section 113 and Schedule 12 of the Water Act 1989 and all other enabling powers the National Rivers Authority hereby gives this

C O N S E N T

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5. The maximum rate of flow of effluent discharged shall not exceed 9.9 litres per second.
6. The maximum volume of effluent discharged shall not exceed 855 cubic metres in any period of 24 hours.
7. Calibrated apparatus, approved in writing by the Authority, shall be provided and maintained in full working order, to permit the instantaneous rate of flow of effluent discharged to be measured accurately at any time.
8. The quality of the effluent discharged at all flow rates up to the maximum specified in condition 6 shall neither be inferior to the following lower tier numerical limits, except as provided for in Annex 1, nor to the upper tier limits.
- 8a. The lower tier 5 day Biochemical Oxygen Demand (BOD ATU), determined at 20 degrees Celsius after the suppression of nitrification using allyl thiourea, shall not exceed 100 milligrams of Oxygen per litre of sample. The upper tier BOD(ATU) shall not exceed 200 milligrammes of Oxygen per litre of sample.

See next page for further conditions.

Aelod Rhanbarthol o'r Bwrdd
Yr Athro Ron Edwards

Rheolwr Rhanbarth Cyffredinol
Dr John Stoner

Highfield, Ffordd Priestley
Caernarfon
Gwynedd, LL55 1HR
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Regional Board Member
Professor Ron Edwards

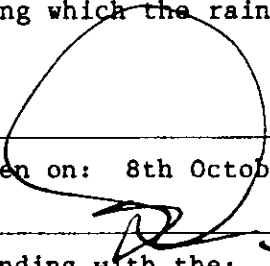
Regional General Manager
Dr John Stoner

Highfield, Priestley Road
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Awdurdod Afonydd Cenedlaethol
Rhanbarth Cymru

National Rivers Authority
Welsh Region

WATER ACT 1989		Consent No.	CG03147-01
<p>Under Section 113 and Schedule 12 of the Water Act 1989 and all other enabling powers the National Rivers Authority hereby gives this</p> <p style="text-align: center;">C O N S E N T Page 3 of 3</p> <p>8. The lower tier Suspended Solids concentration (dried at 105 degrees Celsius) shall not exceed 100 milligrammes per litre. The upper tier Suspended Solids concentration shall not exceed 200 milligrammes per litre.</p> <p>9. The Authority shall be informed in writing as soon as reasonably practicable of any information received to the effect that there has been or is likely to be discharged into the sewerage system connected to the works, a significant increase in the quantity of any substances listed in the attached Annex 2.</p> <p>10. For the purposes of this consent dry weather flow shall mean the average daily flow to the treatment works during seven consecutive days without rain (excluding a period which includes public holidays) following seven days during which the rainfall did not exceed 0.25mm on one day.</p>			
This Consent is given on: 8th October 1991 Authority by: 		on behalf of the Divisional Scientist	
During the period ending with the: 7th October 1993 the terms of this Consent will not be altered without the written agreement of the person making this discharge			

Aelod Rhanbarthol o'r Bwrdd
Yr Athro Ron Edwards

Rheolwr Rhanbarth Cyffredinol
Dr John Stoner

Highfield, Ffordd Priestley
Caernarfon
Gwynedd, LL55 1HR
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*Awdurdod Afonydd Cenedlaethol
Rhanbarth Cymru*

*National Rivers Authority
Welsh Region*

ANNEX 1

Where the number of samples taken in any 12 month period falls within the ranges given in Column 1 of the table below, the number of samples which are inferior to the specified determinand's numerical quality limit, set in condition, 9 shall not exceed the appropriate permitted number as listed in column 2 of the table.

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 when the concentration(s) of which are equal to or lower than the specified limit.

TABLE

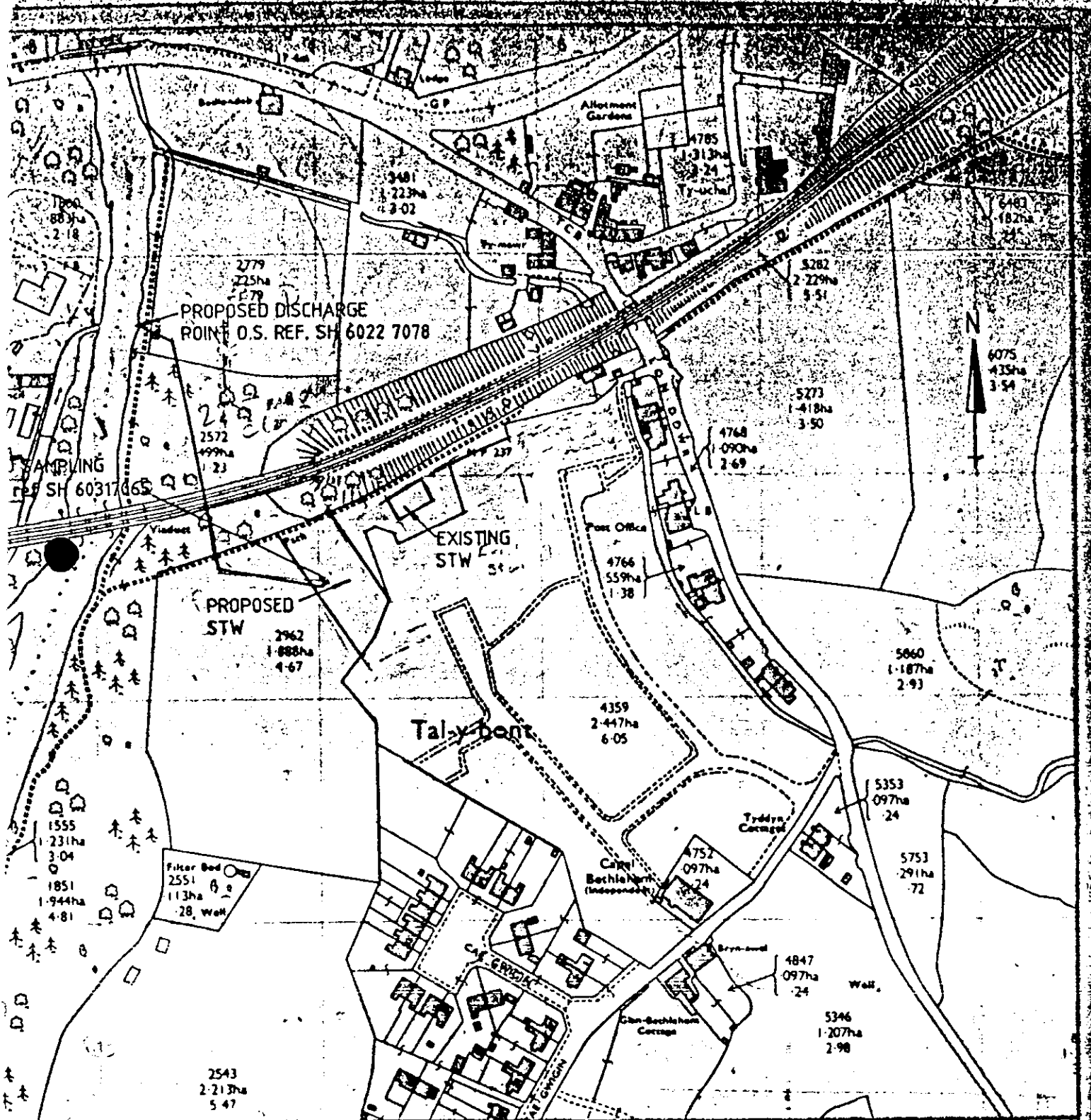
<u>Column 1</u> Series of samples taken in 12 month period	<u>Column 2</u> Maximum number of samples for given determinand permitted to exceed limit
4 - 7	1
8 - 16	2
17 - 28	3
29 - 40	4
41 - 53	5
54 - 67	6
68 - 81	7
82 - 95	8
96 - 110	9
111 - 125	10
126 - 140	11
141 - 155	12
156 - 171	13
172 - 187	14
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

Codeirydd Rhanbarthol
Yr Athro Ron Edwards
Rheolwr Rhanbarth Cyffredinol
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Regional Chairman
Professor Ron Edwards
Regional General Manager
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Highfield, Priestley Road
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Gwynedd, LL55 1HR
Tel: Caernarfon (0286) 672247
Fax: (0286) 4451

ANNEX 2

<u>SUBSTANCE</u>	
Mercury	Fenthion
Cadmium	Parathion
g-Hexachlorocyclohexane	Parathion-methyl
DDT	Tetrachloroethylene
Pentachlorophenol	Trichloroethane
Hexachlorobenzene	Dioxins
Hexachlorobutadiene	Isodrin
Aldrin	
Dieldrin	
Endrin	
Polychlorinated Biphenyls	
Dichlorvos	
1,2 Dichloroethane	
Trichlorobenzene	
Atrazine	
Simazine	
Tributyltin compounds	
Triphenyltin compounds	
Trifluralin	
Fenitrothion	
Azinphos-methyl	
Malathion	
Endosulphan	
Carbon tetrachloride	
Chloroform	
Trichloroethylene	
Perchloroethylene	
Lead	
Chromium	
Zinc	
Copper	
Nickel	
Arsenic	
Iron	
pH	
Boron	
Vanadium	
PCSDs	
Cyfluthrin	
Sulcofuron	
Flucofuron	
Permethrin	
Cyanide	
Azinphos-ethyl	



LOCATION OF PROPOSED DISCHARGE POINT

(Scale 1/2500)



**ENGINEERING and
ENVIRONMENT LIMITED**

**Title TAL-Y-BONT STW
LOCATION OF TREATED EFFLUENT
DISCHARGE POINT**

Scale	AS SHOWN	Date	10/05/90
Drawn	VKW	Checked	AT
Drg No. 3F578.003			