

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



ENVIRONMENT
AGENCY

22 April 1997

Part A

To: DWR CYMRU CYFYNGEDIG
ENVIRONMENT QUALITY SCIENTIST
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 BP0265601

Nature of Discharge(s); SEWAGE EFF/STORM EFF/RAINFALL
CROSSHANDS STW (SETTLED STORM), CROSSHANDS

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: BP0265601
Name: DWR CYMRU CYFYNGEDIG
Address: ENVIRONMENT QUALITY SCIENTIST
PLAS-Y-FFYNNON
CAMBRIAN WAY
BRECON LD3 7HP

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):

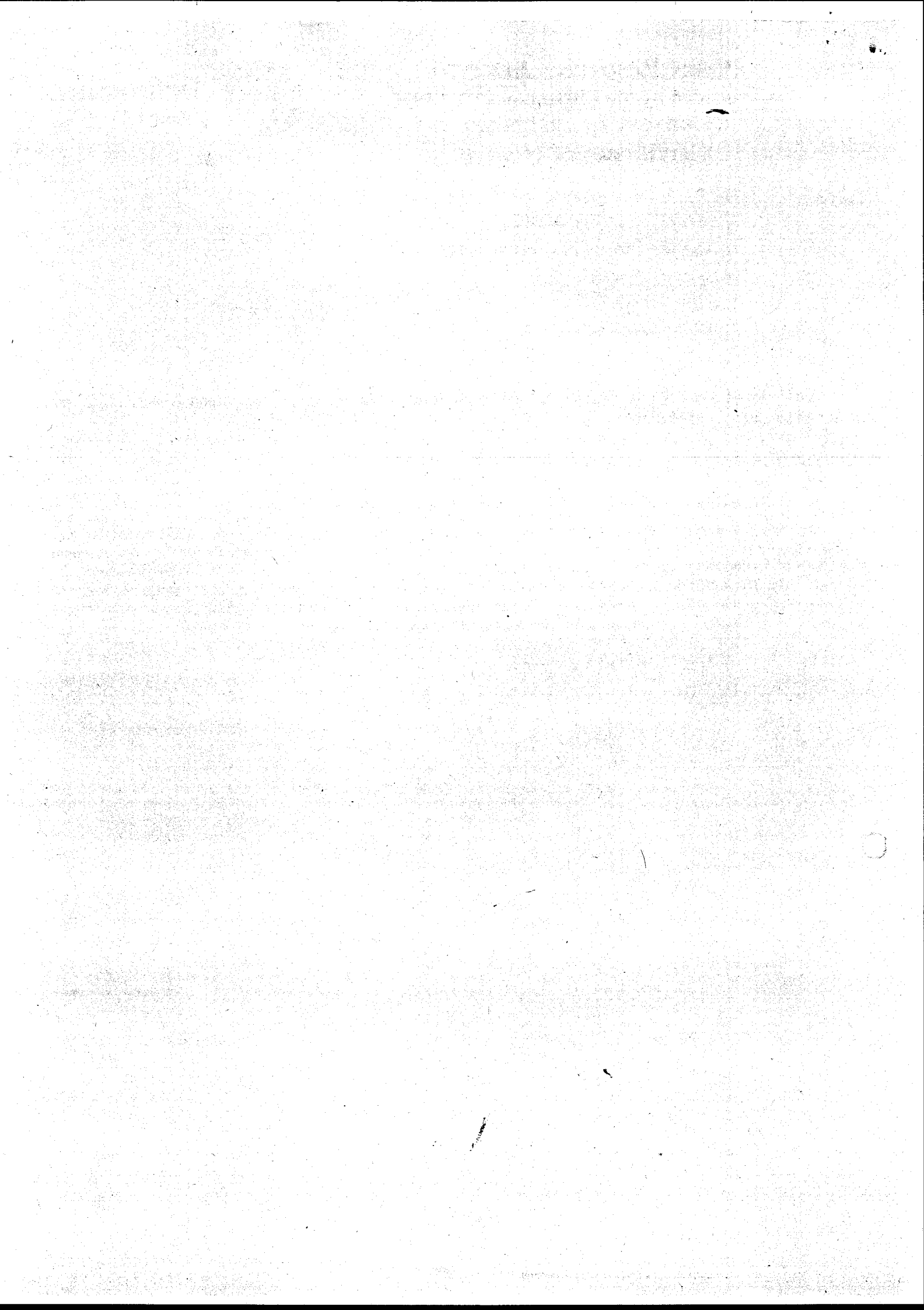
Signed:

Dated:

Name (block capitals):

Position:





| | |
|--------------|-------------|
| CONSENT NO. | BP0265601 |
| SCHEDULE NO. | BP026560101 |

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. Flucofuron | 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.

Your ref.: various
Our ref.: N/WQConsents/DSAnnex

Date: 14th March 2000



ASiantaeth Yr
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Mr A. Andrews
Dŵr Cymru cyf.
Plas Y Fynnon
Cambrian Way
Brecon
LD3 7HP

Dear Sir

DISCHARGE CONSENTS - NOTIFICATION OF CHANGE TO DANGEROUS SUBSTANCES ANNEX

According to our records, you have a Consent to discharge trade or sewage effluent. The Discharge Consent contains the following condition or one that is similar: -
"The discharger shall notify the Agency in writing if any known introduction or material change in respect of discharges from trade premises...occurs that may increase or introduce into the effluent any "dangerous substance" included on List I, List II, or Red List (set out in Annex ...to this notice as updated from time to time and notified to the discharger in writing)..."

Owing to Regulations issued by DETR, the Environment Agency has reviewed the listing of substances in the Annex to this condition.

The Surface Waters (Dangerous Substances) (Classification) Regulations (SI No 2560 (1997) and SI No 389 (1998)) have made some substances, which had previously been identified in Government circular 7/89, statutory and have added 20 new substances to this list. The Annex listing has also been revised to reflect the additional substances in the Regulations and to include other substances that have become a cause for concern since 1989 when the listing was first issued.

This letter and the attached revised listing serves as the required Notification, referred to in the Consent condition. The change takes immediate effect. Please replace the old list with the new one. Please contact your local Environment Agency office and write or speak to Alun Davies if you have any queries about this letter.

Thank you for your help in this important matter.

Yours faithfully

B. Williams

PP
KEVIN THOMAS
WATER QUALITY MANAGER WALES

SIMON GARE, CSC, 11 West

28 APR 1997

Please amend Public



ASiantaeth YR
AMGYLCHEDD
ENVIRONMENT
AGENCY

Our Ref: 2/EQ/BC0265601/JJG
" BP0265701 "

Registered as
below

Your Ref:

Date: 24 April 1997

[Handwritten signature] 24/4

Dr. Lewis Keil
Scientist - Wastewater
Dwr Cymru/Welsh Water
Phoenix Way
Llansamlet
Swansea

Dear Dr Keil

CROSS HANDS CONSENTS

Thank you for your letter of 18 April regarding the above consents.

The alterations, as discussed and detailed below, have been carried out and the updated pages of the schedules are attached thus,

SETTLED STORM SEWAGE SCHEDULE NO. BP0265601 01 Page 2 of 5
Condition 7(a) amended to read "...10 millimetres in more than two dimensions."

STORM SEWAGE SCHEDULE NO. BP0265701 01 Page 2 of 6
Condition 7(a) amended to read "...10 millimetres in more than two dimensions."

Please destroy the original corresponding pages of the respective schedules.

Yours sincerely,

J J GRAHAM
Asstistant Area Consents Officer

cc. Customer Services Centre, Haverfordwest
Regional Consents, St Mellons

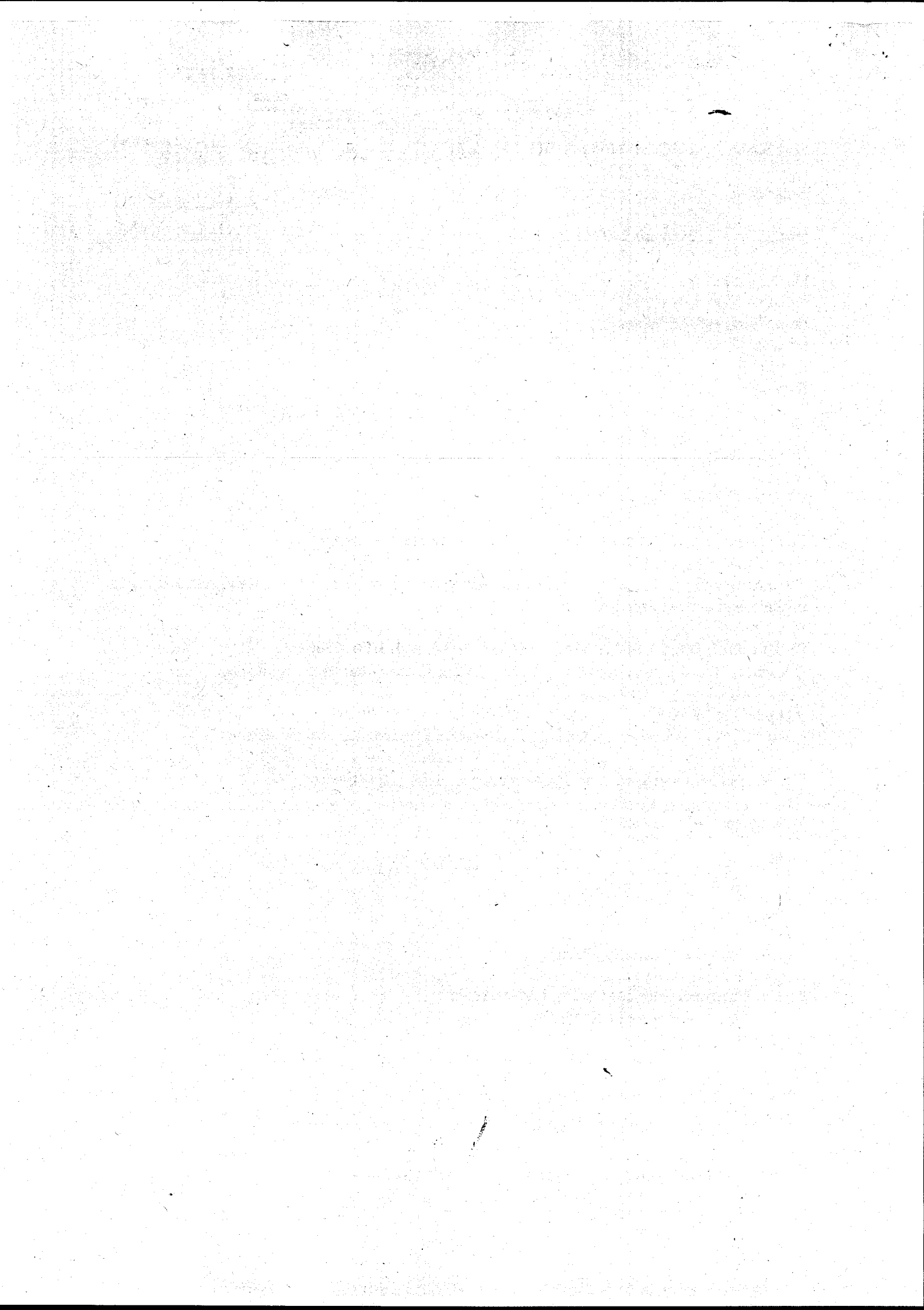
Asiantaeth yr Amgylchedd
Glan Tawe, 154 Ffordd Sant Helen, Abertawe, SA1 4DF

Ffon: 01792 645300, Ffacs: 01792 648652

Environment Agency
Glan Tawe, 154 St. Helens Road, Swansea, SA1 4DF

Tel: 01792 645300, Fax: 01792 648652





Ein cyf/Our ref. 2/EQ/BC0001501/BP0265601/BP0265701HJW

Dyddiad/Date: As postmark



ASiantaeth Yr
AMGYLCHEDD
ENVIRONMENT
AGENCY

The Environment Quality Scientist
Dwr Cymru Cyf
Plas Y Ffynnon
Cambrian Way
Brecon LD3 7HP

Dear Sirs

**RE: WATER RESOURCES ACT 1991 SECTION 88 SCHEDULE 10
REVIEW OF CONSENT TO DISCHARGE**

Further to your application for the review of consent of the Agency to discharge under the provisions of Section 88 of the Water Resources Act 1991, I enclose the Agency formal notice of the modifications made to the conditions of the consent to discharge sewage effluent from Crosshands Sewage Treatment Works.

Under the present Scheme of Charges for Discharges to Controlled Waters an annual charge will be made for all consents to discharge, except where the discharge of sewage effluent of five cubic metres or less per day. This charge is based on information derived from the conditions attached to the consent to discharge, as outlined in the enclosed leaflet. A change in conditions may therefore result in a change in annual charge, you may therefore receive a revised bill in due course.

Where there is a change of ownership of the discharge, the Agency should be informed in writing in order that an apportioned charge may be raised.

The consents have been determined and issued with the understanding that further modelling to predict the relative impact of each discharge is to be progressed by DCWW and that all reports will be made available for audit by this Agency by 31 December 1997.

If you are not satisfied with the new conditions of the consent you may appeal against the decision to the Secretary of State for Wales at the Welsh Office, Cathays Park, Cardiff CF1 3NQ.

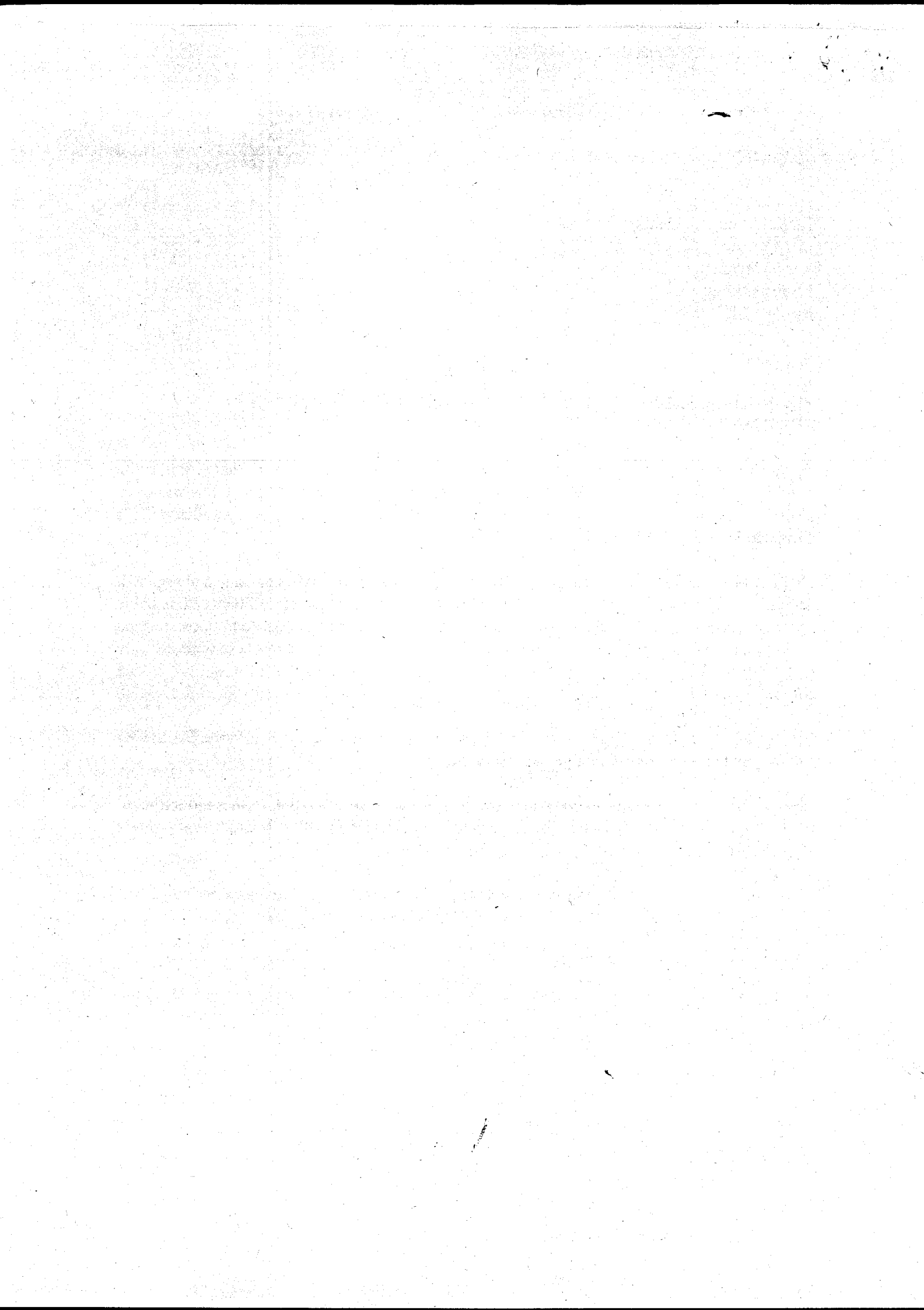
Yours faithfully

D B L Mathias
Area Water Quality Manager

Please ask for: Helen Williams, Ext 3501

Asiantaeth yr Amgylchedd
Llys Afon, Hawthorn Rise, Hwlfordd, Sir Penfro, SA61 2BQ
Ffon 01437 760081, Ffacs 01437 760881

Environment Agency
Llys Afon, Hawthorn Rise, Haverfordwest, Pembrokeshire, SA61 2BQ
Tel 01437 760081, Fax 01437 760881



CONSENT NO.

BP0265601



ASiantaeth YR
AMGYLCHEDD
ENVIRONMENT
AGENCY

WATER RESOURCES ACT 1991

SECTION 88 - SCHEDULE 10

CONSENT TO DISCHARGE

TO: The Environment Quality Scientist
Dwr Cymru Cyfyngedig
Plas Y Ffynnon
Cambrian Way
Brecon
LD3 7HP

The ENVIRONMENT AGENCY ("The Agency") in pursuance of its powers under the Water Resources Act 1991 **HEREBY CONSENTS** to the making of a discharge OF **SEWAGE EFFLUENT**, as follows:

SETTLED STORM SEWAGE

FROM: CROSSHANDS SEWAGE TREATMENT WORKS

AT: CROSSHANDS, CARMARTHENSHIRE

TO: THE AFON GWILI

SUBJECT TO the conditions set out in the following schedule(s):

SETTLED STORM SEWAGE

SCHEDULE NO. BP0265601 01

Subject to the provisions of Paragraphs 6 and 7 of Schedule 10 of the Water Resources Act 1991, no notice shall be served by the Agency, altering this consent without the agreement in writing of the discharger, during a period of 2 years from the date this consent takes effect.

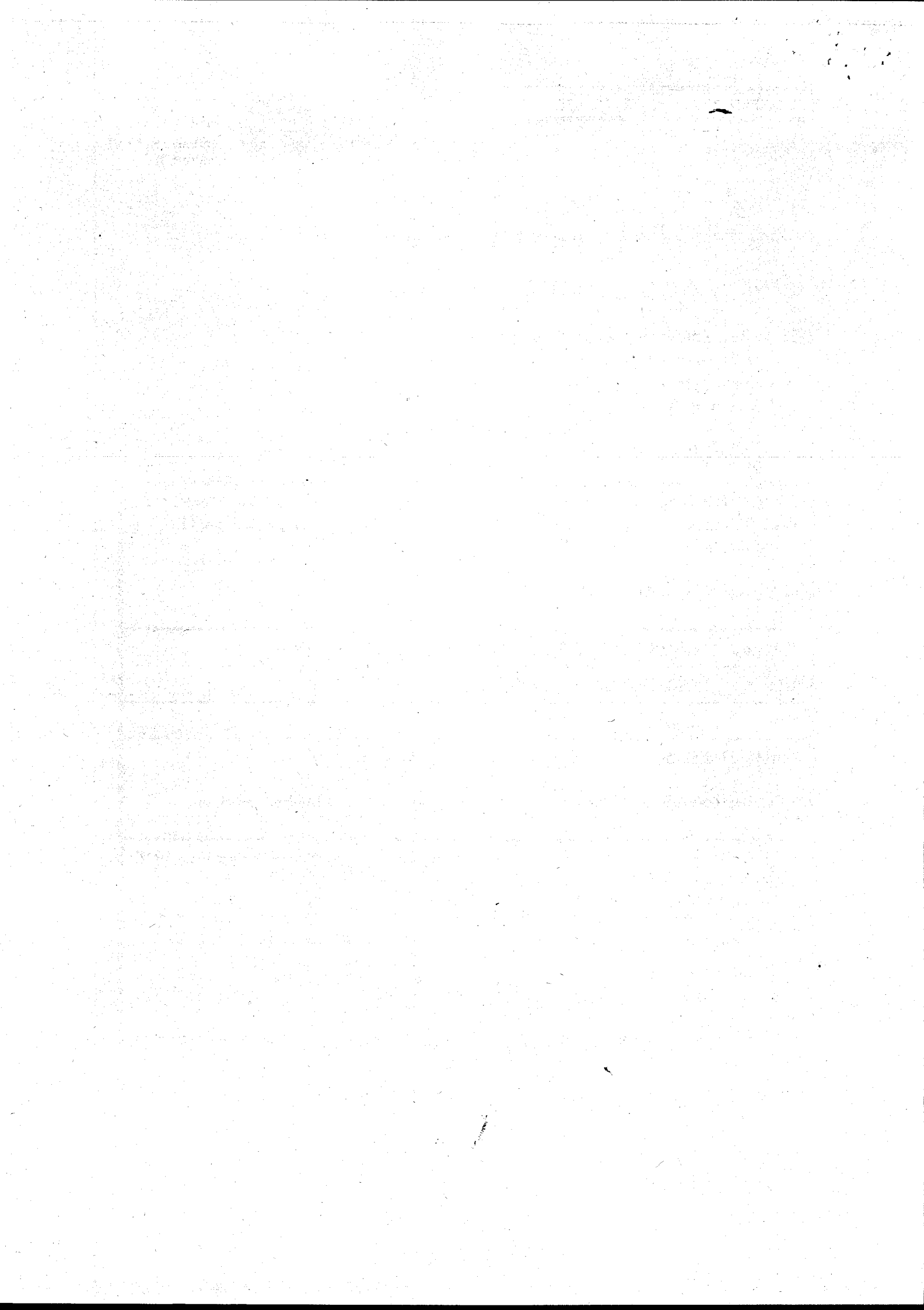
This consent is issued and takes effect on the 21st day of March 1997

Signed
Area Water Quality Manager

Asiantaeth yr Amgylchedd
Glan Tawe, 154 - 156 Ffordd Sant Helen, Abertawe SA1 4DF
Ffon 01792 645300 Ffacs 01792 648652

The Environment Agency
Glan Tawe, 154 - 156 St Helens Road, Swansea SA1 4DF
Tel 01792 645300 Fax 01792 648652





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|--------------|-----------------------------|
| CONSENT NO. | BP 0265601 |
| SCHEDULE NO. | BP 0265601 01 |
| DATE ISSUED | 21 st March 1997 |



ASiantaeth Yr
Amgylchedd
Environment
Agency

CONDITIONS OF CONSENT TO DISCHARGE

SETTLED STORM SEWAGE ("the Discharge")

FROM: CROSSHANDS SEWAGE TREATMENT WORKS

1. (a) The Discharge shall not contain any poisonous, noxious or polluting matter or solid waste matter.
- (b) Provided that the Discharge hereby consented is made in accordance with the following conditions of this consent, such discharge shall not be taken to be in breach of condition (a) above by reason of containing substances or having properties identified in and controlled by these conditions.

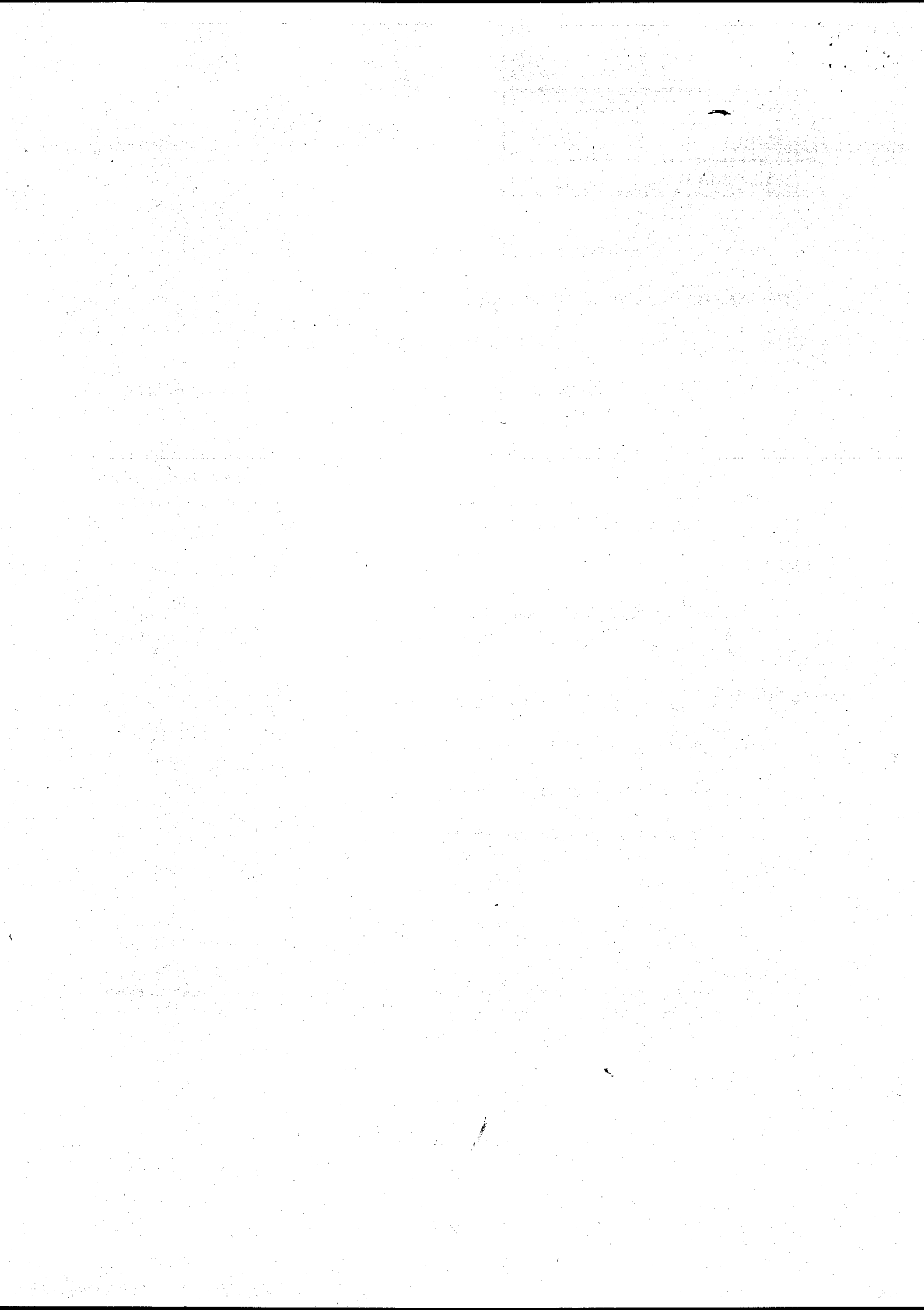
NATURE

2. The Discharge shall consist solely of settled storm sewage.

LOCATION

3. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 600 millimetre diameter pipe;
 - (b) discharging to the the Afon Gwili;
 - (c) at National Grid Reference SN 5698 1152;
 - (d) shown marked 'Consent Point' on Plan BP0265601 attached as Annex 2.
4. An appropriately labelled sample point shall be provided by start of commissioning and maintained at National Grid Reference SN 5628 1232, as shown marked 'Sample Point' on Plan BP0265601, so that a representative sample of the Discharge may be obtained. The discharger shall ensure that all constituents of the Discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the Discharge taken at the said sampling point is a sample of what was discharging into controlled waters.







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| CONSENT NO. | BP0265601 |
| SCHEDULE NO. | BP0265601 01 |

VOLUME

5. The Discharge shall occur when and only for as long as, the storm tanks are full. The discharge of storm sewage to the storm tank shall occur only when the rate of flow at the inlet to the works pumping station is in excess of 28 litres per second due to rainfall and/or snow melt. The storm tanks shall be emptied automatically and their contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tanks.
6. The capacity of the storm tanks shall be at least 244 cubic metres.

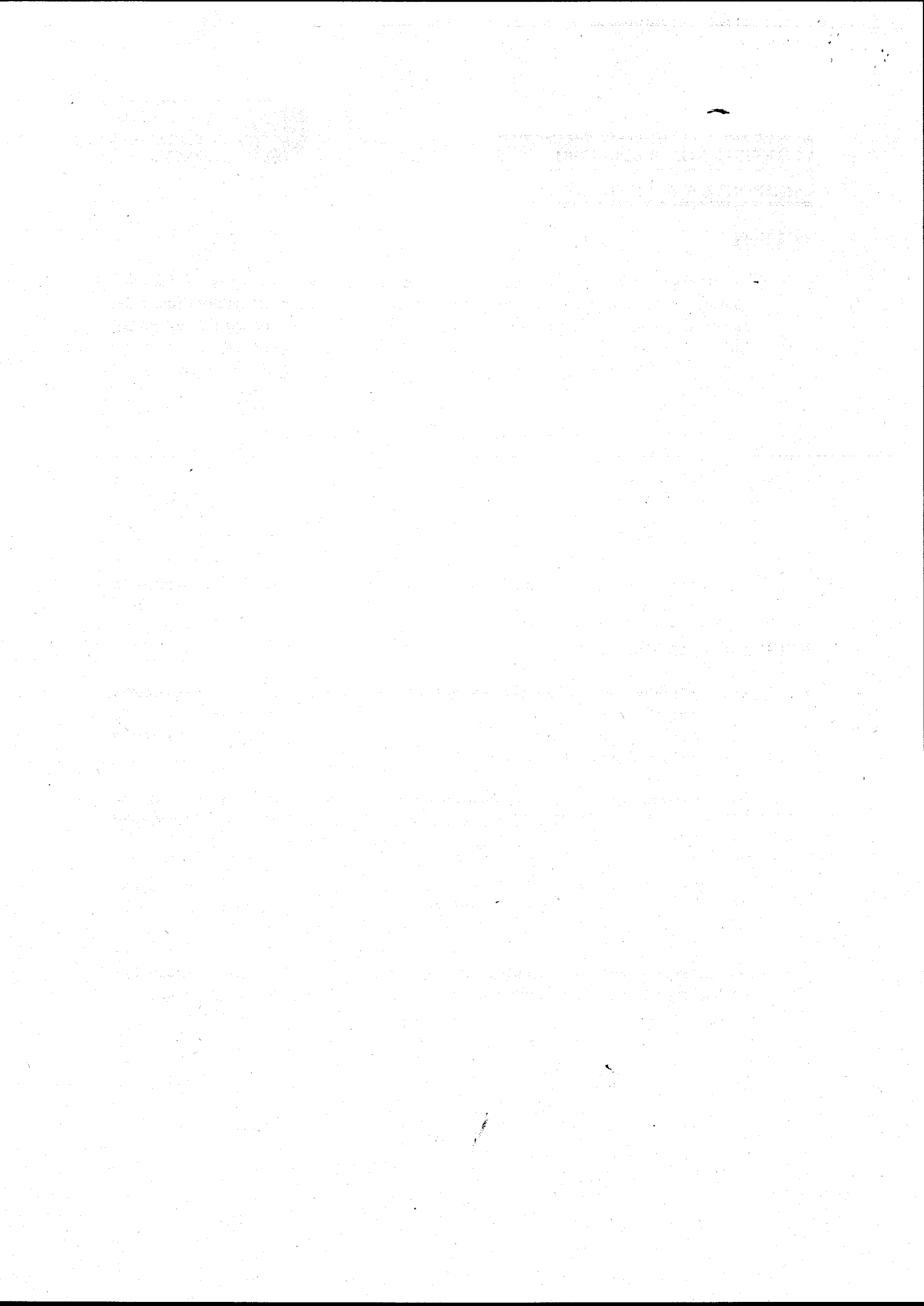
COMPOSITION

7. (a) The Discharge shall not contain a significant quantity of solid matter having a size greater than 10 millimetres in more than two dimensions.
- (b) The Discharge shall not be comminuted or macerated to achieve the standard in (a) above.

RECORDING AND REPORTING

8. (a) The discharger shall establish and operate a documented maintenance programme and record all non-routine actions undertaken that may have adversely affected effluent quality. Copies of the programme shall be made available for inspection by the Agency's officers at all reasonable times.
- (b) On request the discharger shall supply the Agency with a written report on the maintenance and all non-routine actions that may have adversely affected effluent quality.
9. The discharger shall notify the Agency in writing if any known introduction or material change, in respect of discharges from trade premises to the sewerage system, occurs that may increase or introduce into the effluent any "dangerous substance" included on Lists I, II, or Red List, (set out in Annex 1 to this notice as updated by the Agency from time to time, and notified to the discharger in writing), or any other substance considered by the discharger as having or likely to have a significant effect on the receiving waters.





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| CONSENT NO. | BP0265601 |
| SCHEDULE NO. | BP0265601 01 |



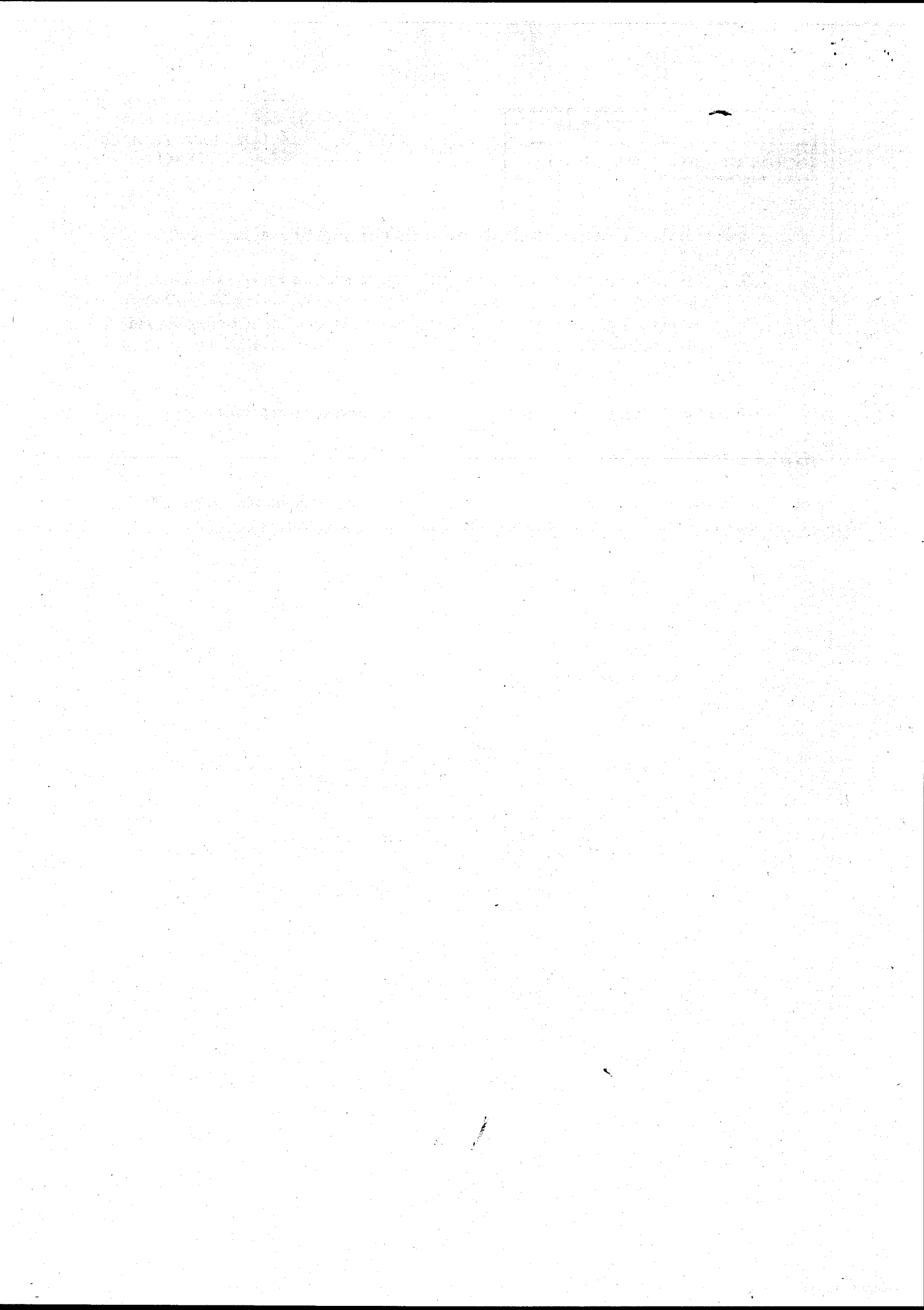
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Environment
Agency

11. As far as is reasonably practicable, the works shall be operated so as to prevent:
- (i) any matter being present in the Discharge 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
 - (ii) the Discharge from having any other adverse environmental impact.

START DATE

12. There shall be no discharge under the terms of this consent until the 31st March 1997 or the start of commissioning of the works whichever is the sooner.





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| CONSENT NO. | BP0265601 |
| SCHEDULE NO. | BP0265601 01 |



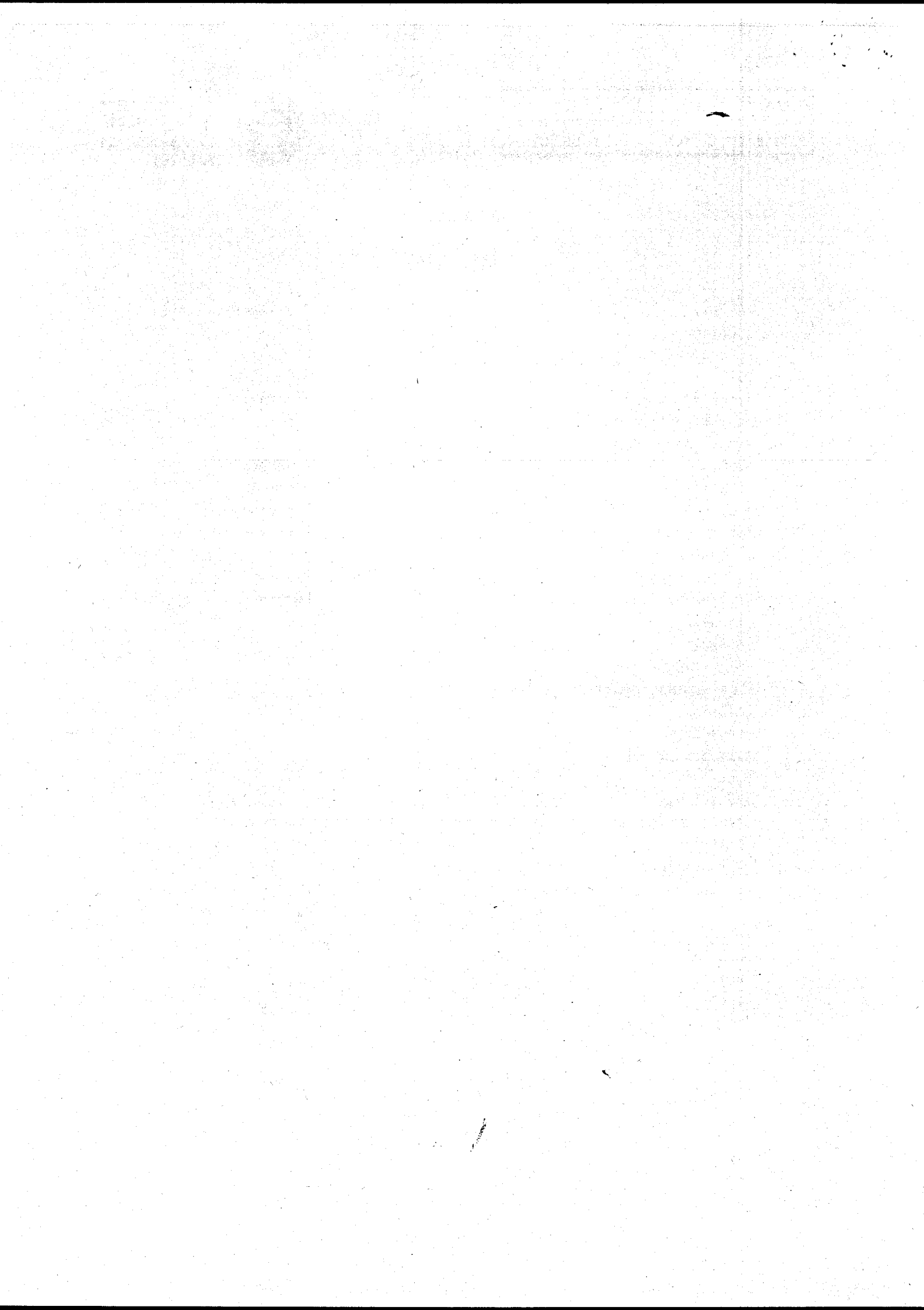
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AMGylchedd
ENVIRONMENT
AGENCY

ANNEX 1

SUBSTANCE

| | |
|---------------------------|------------------|
| 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 | |





DWR CYMRU CYFYNGEDIG
THE WATER INDUSTRY ACT 1991
NOTICE OF DIRECTION VARYING A CONSENT
TO DISCHARGE TRADE EFFLUENT INTO A PUBLIC SEWER

TO: DAWN PAC LTD, CROSSHANDS BUSINESS PARK, CROSSHANDS, DYFED

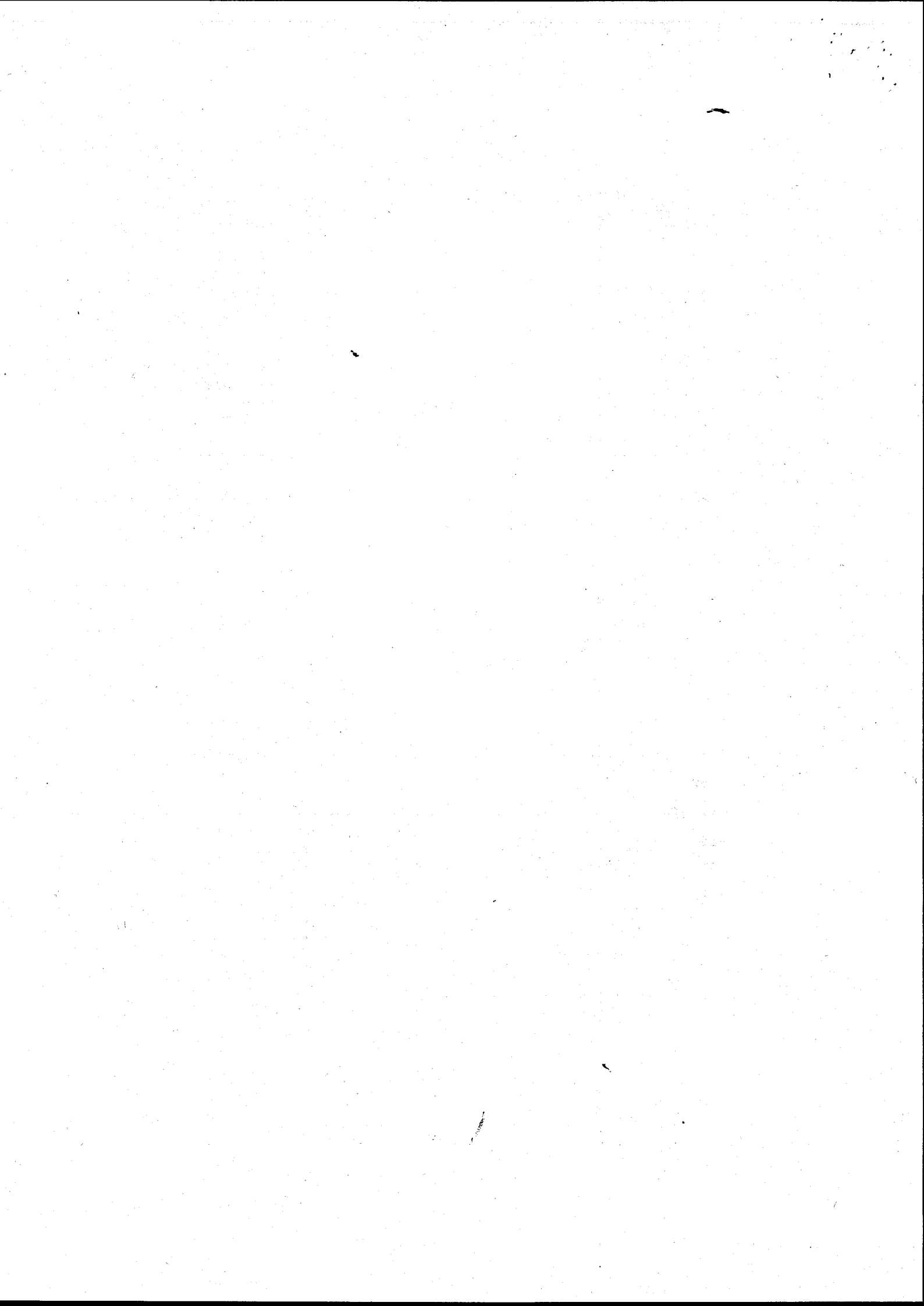
- (1) A Consent ("the consent") to discharge trade effluent into the public sewer subject to conditions was issued by DWR CYMRU CYFYNGEDIG ("the Undertaker") (or its predecessors) on 2nd November 1994 from trade premises at Crosshands Business Park, Crosshands, Dyfed.
- (2) Except in so far as they are varied by this Direction the conditions and provisions of the Consent shall remain in force and shall apply to the discharge.

The Undertaker hereby gives Notice of its Direction that the conditions attached to the Consent shall be varied with effect from the 25th April 1996 by:-

- (i) the revocation of the conditions contained in the Consent, and
- (ii) the substitution for those conditions of the following conditions

DWR CYMRU CYFYNGEDIG ("the Undertaker") in the exercise of its powers under Section 121 of the Water Industry Act 1991, and thinking it fit to impose conditions as hereinafter appear, GIVES ITS CONSENT to the discharge of trade effluent from the said trade premises into the Undertaker's public sewers, SUBJECT TO THE FOLLOWING CONDITIONS AND NOT OTHERWISE

- (1) The public sewer into which the trade effluent may be discharged is the 150 mm more particularly identified by means of a line coloured RED drawn on the plan attached hereto and marked "B".
- (2) The discharge of trade effluent shall be made at the point marked "X" on the said plan and the said trade effluent shall enter into the public sewer shown on

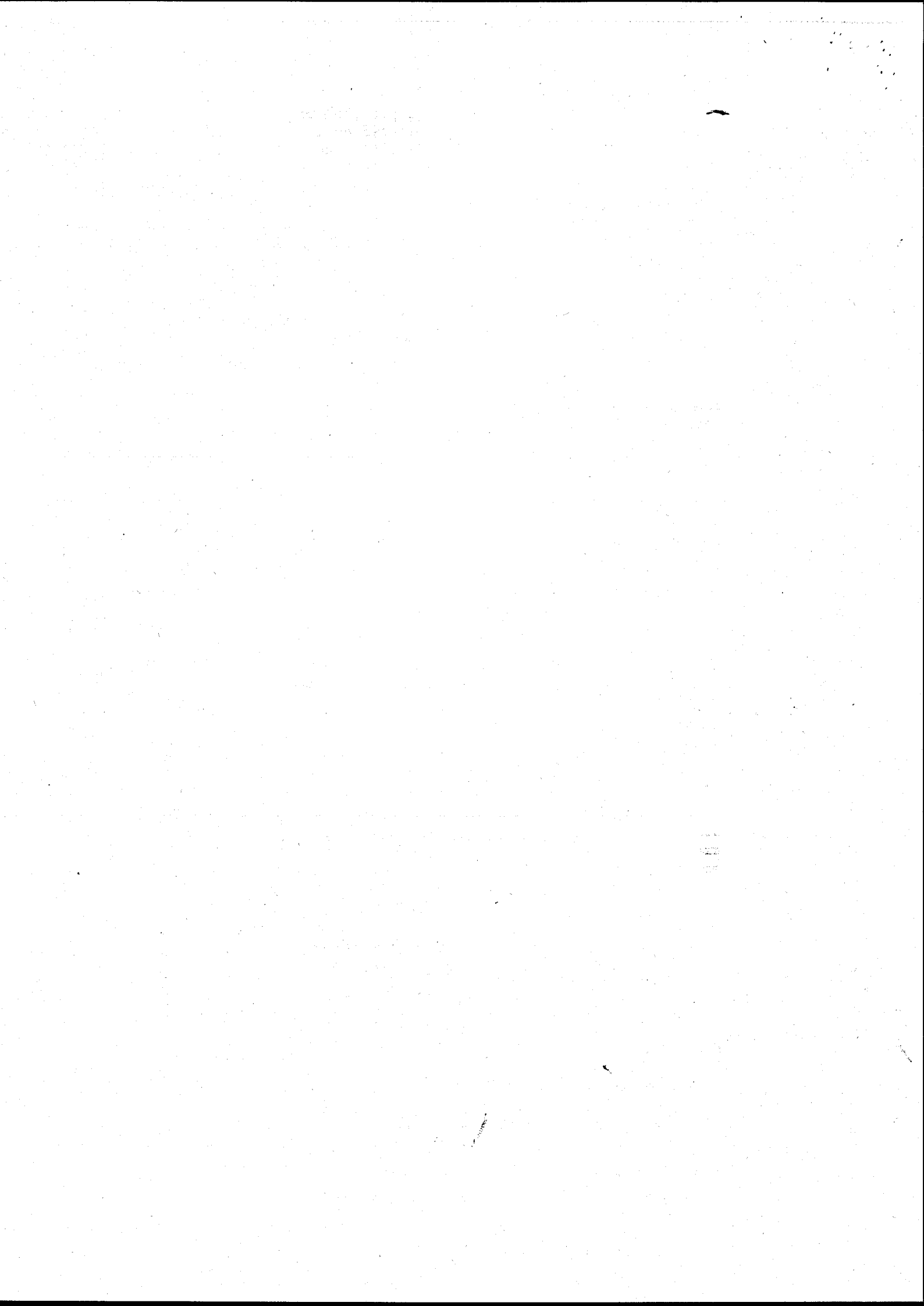


the said plan at the point marked "Y" thereon and not otherwise. Further, no connection, linkage, conduit, pipe, channel or other communication whatsoever shall be made to the said sewer between the said points "X" and "Y" without the prior approval in writing of the Undertaker.

- (3) The trade effluent to be discharged shall consist solely of that which is specified in the Trade Effluent Notice or application to discharge in respect of which the Consent was given as varied by any application made for the purpose of this Direction and derived exclusively from meat packaging.
- (4) Without prejudice to condition 3 above, the nature and/or composition of the trade effluent which may be discharged is as specified in the FIRST SCHEDULE hereto.
- (5) The trade effluent shall not include any of the substances or properties listed in the SECOND SCHEDULE hereto in concentration greater than stated therein.
- (6) The maximum quantity of trade effluent discharged on any day (being any continuous 24 hour period) shall not exceed 60 cubic metres.
- (7) The highest rate at which trade effluent may be discharged shall not exceed 10 cubic metres per hour.
- (8) The trade effluent can be discharged into the public sewer between 2300 hours and 0600 hours.
- (9) No uncontaminated condensing water shall be discharged.
- (10) There shall be eliminated from the trade effluent before it is discharged the matters listed below:
 - (a) Effluent with a temperature in excess of 43 degrees Celsius (110 degrees Fahrenheit);
 - (b) Calcium Carbide;
 - (c) Petroleum Spirit within the meaning of Section 111 of the Water Industry Act 1991 and/or the Petroleum Act 1928, save as otherwise permitted herein;
 - (d) Other material forming a constituent of the trade effluent, whether alone or in combination with other materials, specified hereby as that which is explosive;

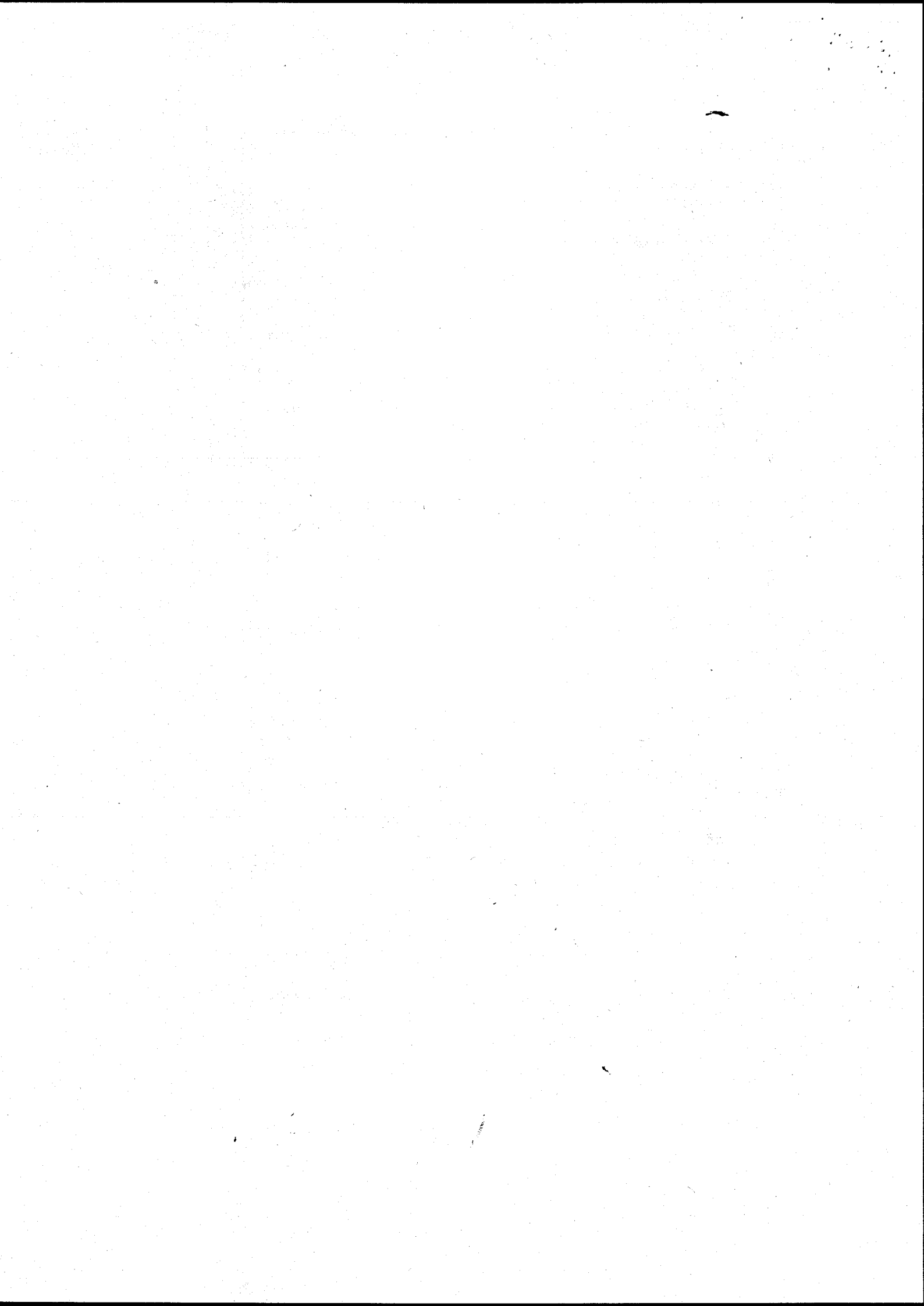


- (e) Any other substance forming a constituent of the trade effluent which is hereby specified as that which is likely to injure the sewers or to interfere with the free flow of their contents or to affect prejudicially the treatment and disposal of their contents;
 - (f) Any other substance forming a constituent of the trade effluent which is hereby specified as that which in its pure state or in combination with other materials in the contents of the sewer ("the sewage") is capable of producing toxic or flammable vapours.
- (11) No trade effluent shall be discharged the pH value of which is less than 6.0 or greater than 10.0 .
- (12) No trade effluent shall be discharged the nature or composition of which includes a matter, substance, property or matters, substances or properties which would constitute the trade effluent as Special Category Effluent within the meaning of Section 138 of the Water Industry Act 1991.
- (13) The Occupier shall give to the Undertaker prior written notice of any change in the process of manufacture, materials, or other circumstances howsoever arising capable of altering the nature and/or composition of the trade effluent. No new substances or properties shall be discharged until the Undertaker has agreed thereto, either with or without imposing a limit and thereafter the said substance(s) and/or property(ies) shall be deemed incorporated into the SECOND SCHEDULE.
- (14) An inspection chamber or manhole shall be provided and maintained by the Occupier in a suitable position and/or at the point marked "X" on the plan annexed hereto in connection with each pipe through which the trade effluent is discharged and such inspection chamber or manhole shall be constructed and maintained in accordance with the Undertaker's reasonable requirements as from time to time notified in writing to the occupier so as to enable a person readily at any time to take samples of the trade effluent being discharged.
- (15) A notch gauge, continuous recorder or some other apparatus suitable and adequate to the Undertaker for measuring and automatically recording the volume and rate of trade effluent so discharged shall be provided, such apparatus to be tested and maintained in accordance with the Undertaker's reasonable



requirements as from time to time notified in writing to the Occupier.

- (16) Apparatus capable of accurately determining, measuring and recording the nature and/or composition of the trade effluent discharged shall be provided, such apparatus to be tested and maintained in accordance with the Undertaker's reasonable requirements as from time to time notified in writing to the Occupier.
- (17) The Occupier shall keep records of the volume, rate, nature and/or composition of the trade effluent discharged into the sewer at all times available for inspection by any authorised officer of the Undertaker and copies of such records shall be sent to the Undertaker on demand.
- (18) (a) The Occupier shall pay to the Undertaker charges for the reception, conveyance, treatment and disposal of the trade effluent and the costs of sampling, measuring and/or analysis of the same under the Undertaker's trade effluent's functions, which charges shall be determined as set out below, and all sums payable under this condition shall be payable upon demand;
- (b) The charges under (a) above shall be calculated in accordance with Undertaker's Scheme of Charges as from time to time amended;
- (c) For the avoidance of doubt, the charge shall be payable by any person who is or was the Occupier of the said trade premises during the period of discharge of the trade effluent or at the time payment is due.
- (19) If the notch gauge, meter, recorder or other apparatus ceases to record or is suspected of not recording and/or measuring accurately, the quantity of trade effluent discharged into the sewer during the period from the date and/or time at which the records were last accepted by the Undertaker as being correct up to the date when the notch gauge, meter, recorder or other apparatus again registers accurately shall for the purpose of any payment to be made under these conditions be based on the average daily volume of trade effluent discharged during the preceding period over which the records were last accepted by the Undertaker as being accurate or during the month immediately after the notch, gauge, meter, recorder or other apparatus or means of measurement and recording has been accurate whichever is the higher.



YOUR RIGHT OF APPEAL

Section 126 of The Water Industry Act 1991 provides that:-

The Owner or occupier of any trade premises may within 2 months of this Notice of Direction (or with the written permission of the Director General of Water Services at any later time) appeal to the Director against the Direction.

The Director has the power to annul the Direction and to substitute for it any other Direction wherever more or less favourable to the appellant.

The address of the Director for the purposes of an appeal is (Centre City Tower, 7 Hill Street, Birmingham B5 4UA)

FAILURE TO COMPLY WITH CONDITIONS

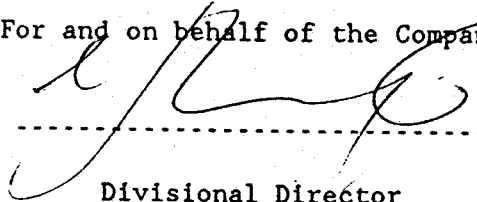
If in the case of any trade premises a condition of the Consent or this Direction is contravened, the occupier of the premises will be guilty of an offence and liable on conviction by a Magistrates' Court to a fine not exceeding the statutory maximum or on conviction by the Crown Court to an unlimited fine.

METHOD OF ANALYSIS

Compliance with the conditions herewith shall be ascertained by reference to the method of analysis as from time to time employed by the Undertaker, its servants, agents or contractors, save where the said condition(s) otherwise expressly provide(s)

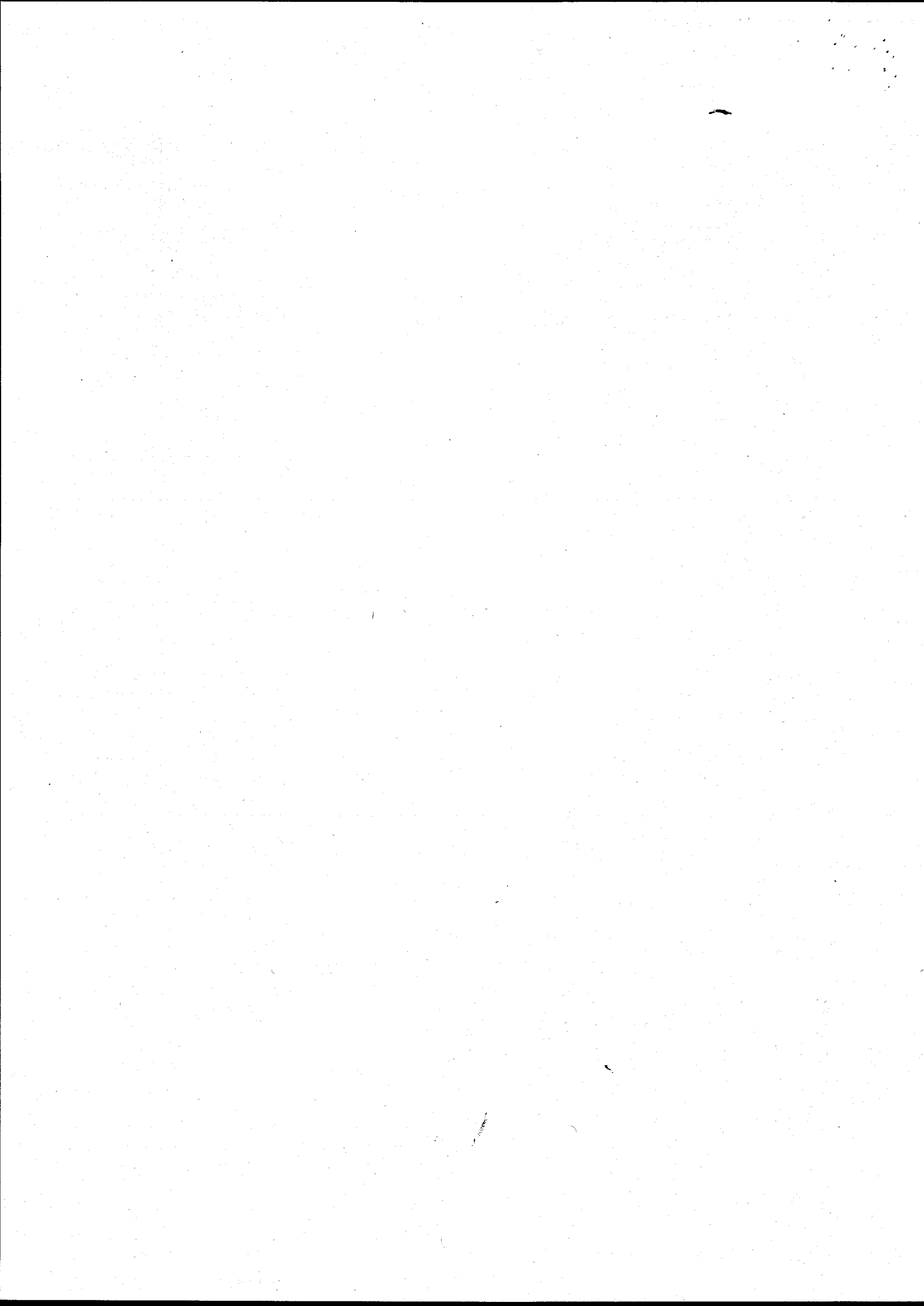
DATED the twentyfifth day of February 1996.

For and on behalf of the Company



Divisional Director

Dwr Cymru Welsh Water
South Western division
Ffynnon Menter
Phoenix Way
Enterprise Park
Llansamlet
Swansea

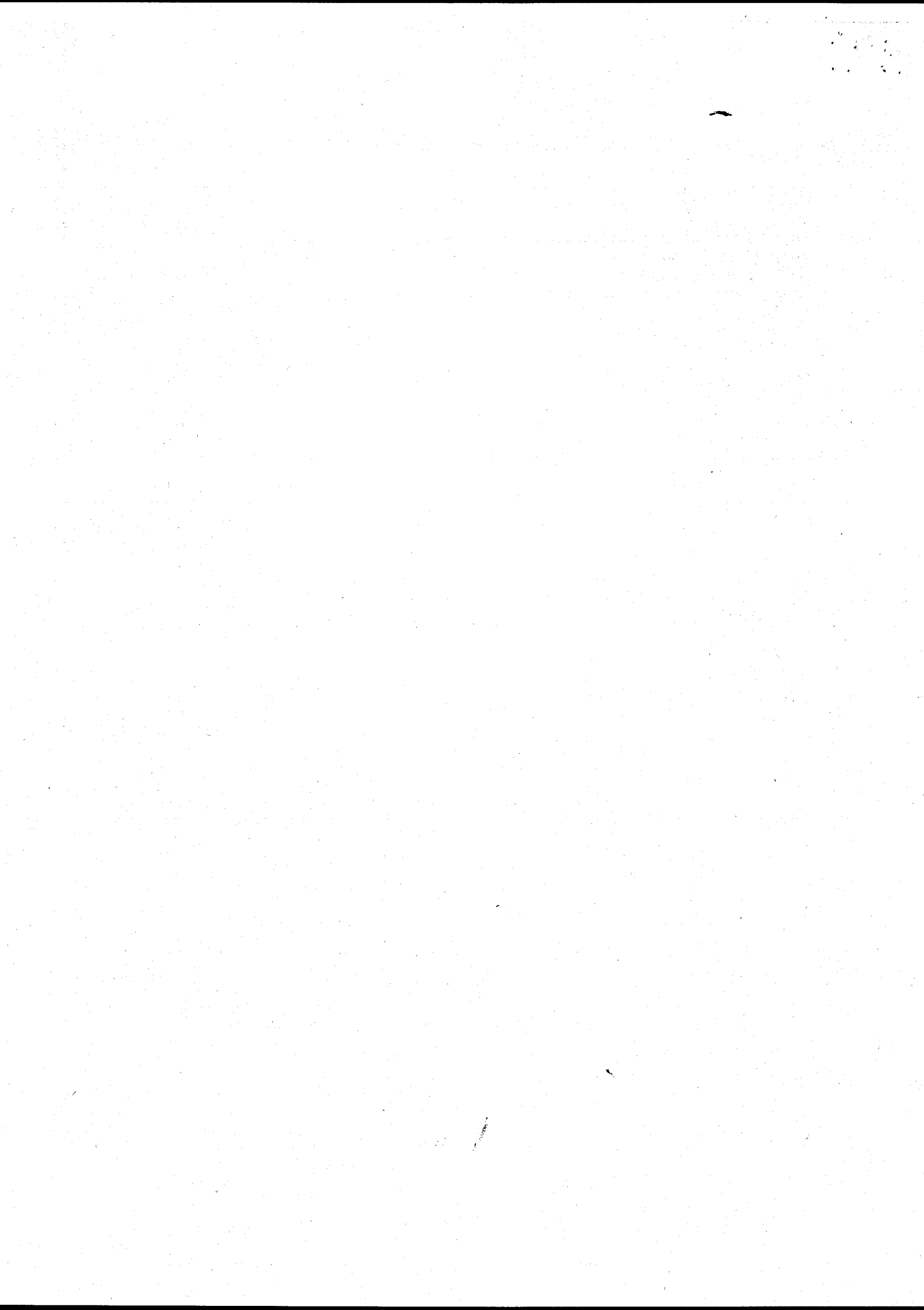


SCHEDULE 1

Nature and Composition of Trade Effluent

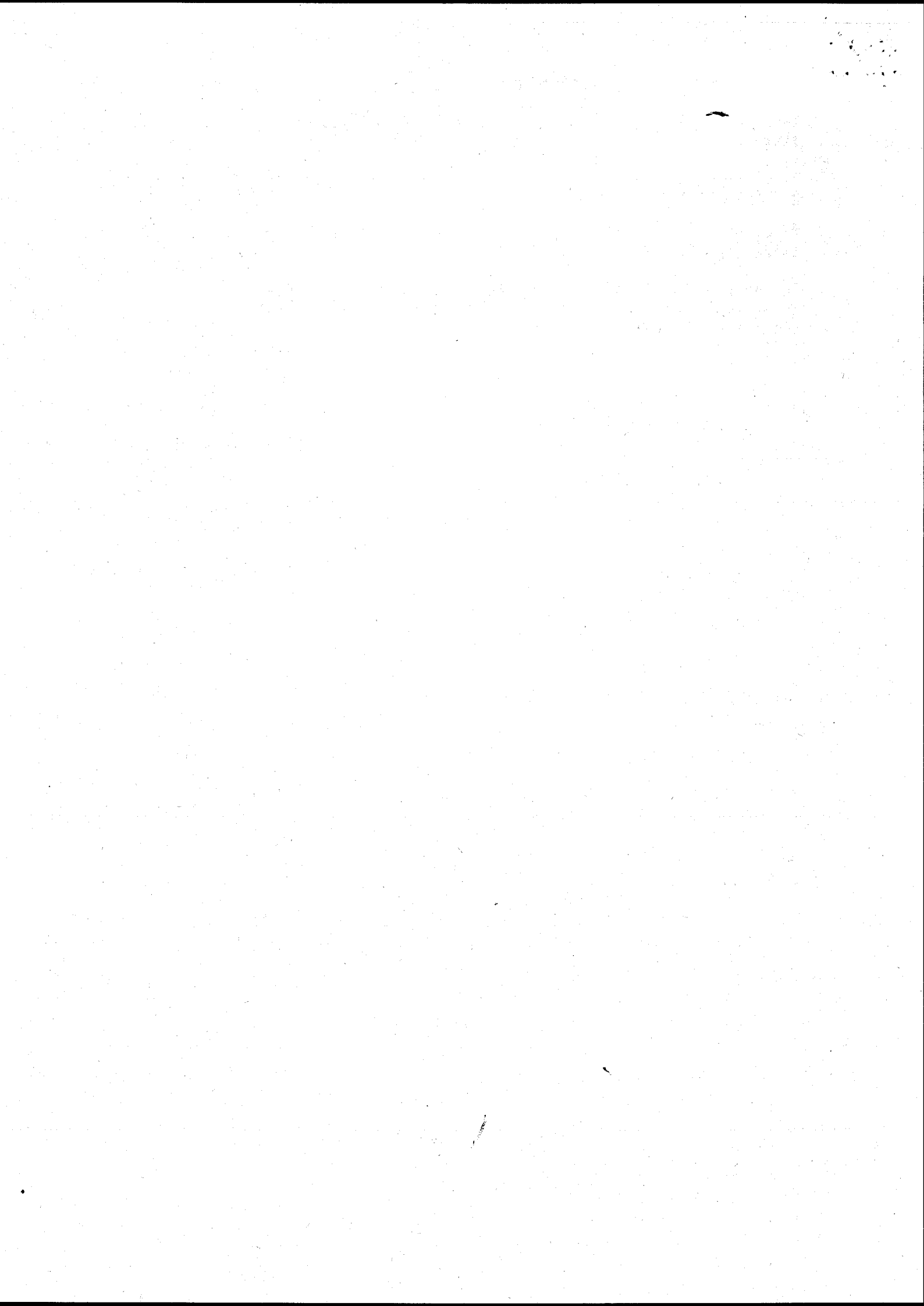
The Trade Effluent may contain the following substances:-

- (1) Water (including such elements, compounds and organisms normally present in water at trace or harmless levels and not exceeding such levels as may be imposed by any Regulations for the time being regulating the quality of drinking water).
- (2) Suspended solids.
- (3) Free or emulsified oil or grease
- (4) Anionic detergent.



SCHEDULE 2

- (1) Total suspended solids shall not exceed 500 milligrams per litre.
- (2) Total free or emulsified oil or grease shall not exceed 50 milligrams per litre.
- (3) Total anionic detergent shall not exceed 400 milligrams per litre (expressed as Manoxol OT).
- (4) The 5 day biochemical oxygen demand (BOD₅) determined at 20 degrees Celsius after suppression of nitrification using allyl thiourea, shall not exceed 2000 milligrams per litre.





DŴR CYMRU
WELSH WATER

Rhanbarth y Gogledd
Maes y Ffynnon
Penrhosgarnedd
Bangor
Gwynedd LL57 2DN

Northern Division
Maes y Ffynnon
Penrhosgarnedd
Bangor
Gwynedd LL57 2DN

Ffôn: (01248) 351 144
Ffacs: (01248) 374 368

Tel: (01248) 351 144
Fax: (01248) 374 368

Me P Gibson,
senior Technical Assistant,
Environment Agency
Plas yr Afon.,
St. Mellons Business Pk.,
St. Mellons,
Cardiff.
CF3 0LT.

20 December 1996

MR A. R. Andrews

Dear Mr Gibson,

Crosshands STW

Please find enclosed applications for :-


- (i) review of consent for the works final effluent;
- (ii) new settled storm facility - flows from 28 l/s to 56 l/s;
- (iii) new screened storm facility - flows from 56 l/s to 100 l/s will be screened (6mm mesh, degrittied and degreased); and
- (iv) new emergency overflow from main works pumping station.

Yours Sincerely

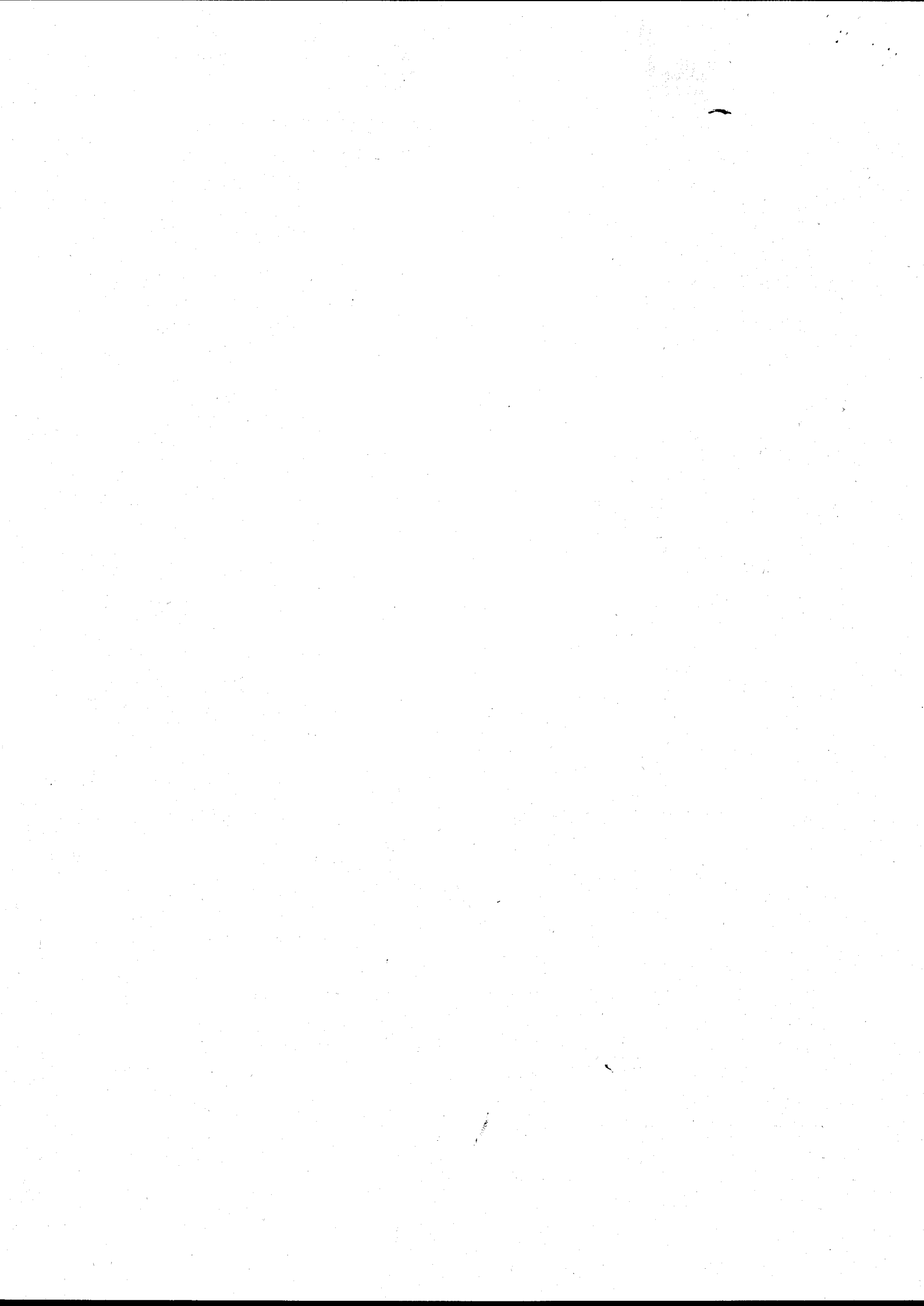
A. R. Andrews

A. R. Andrews
Environment Quality Scientist

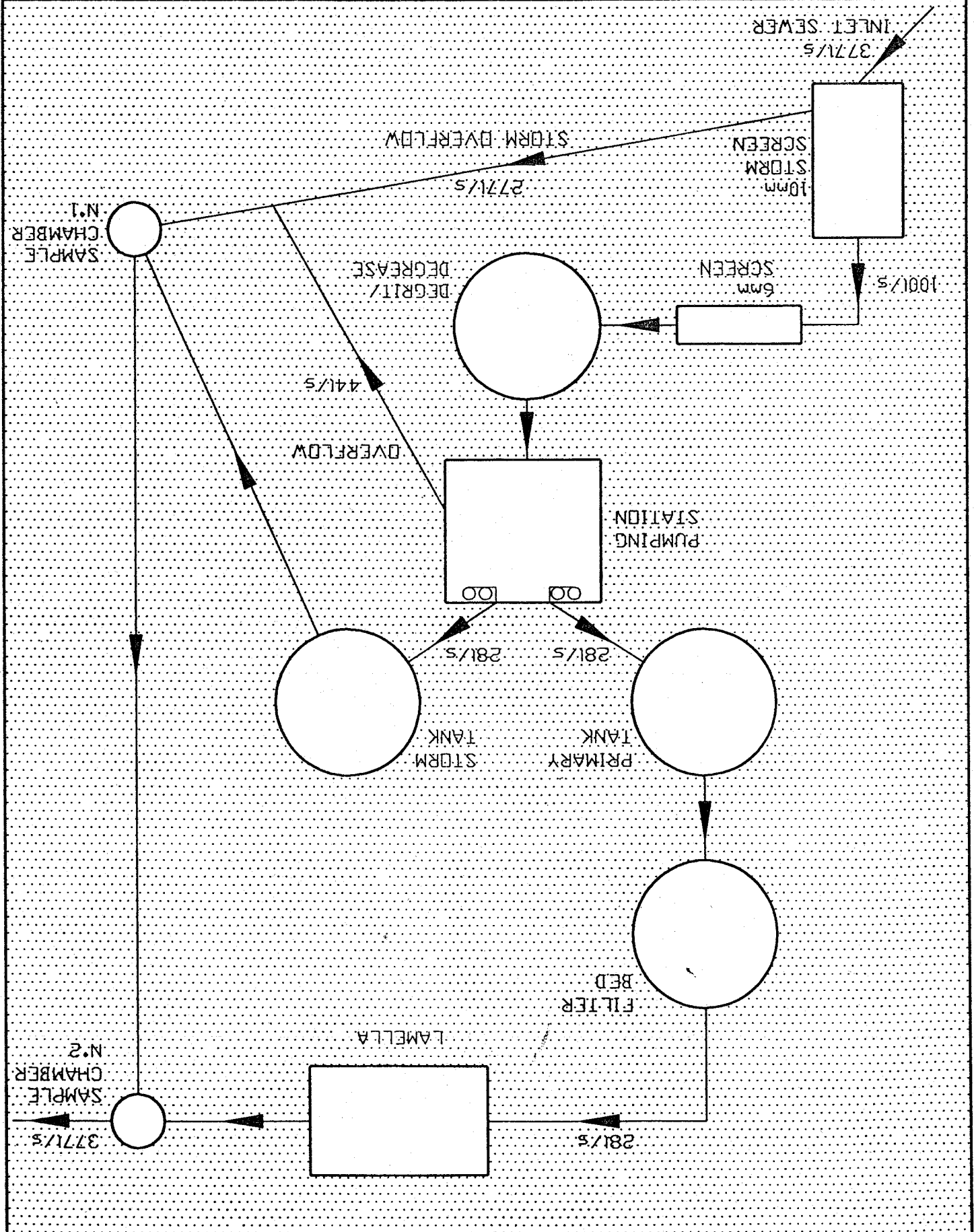


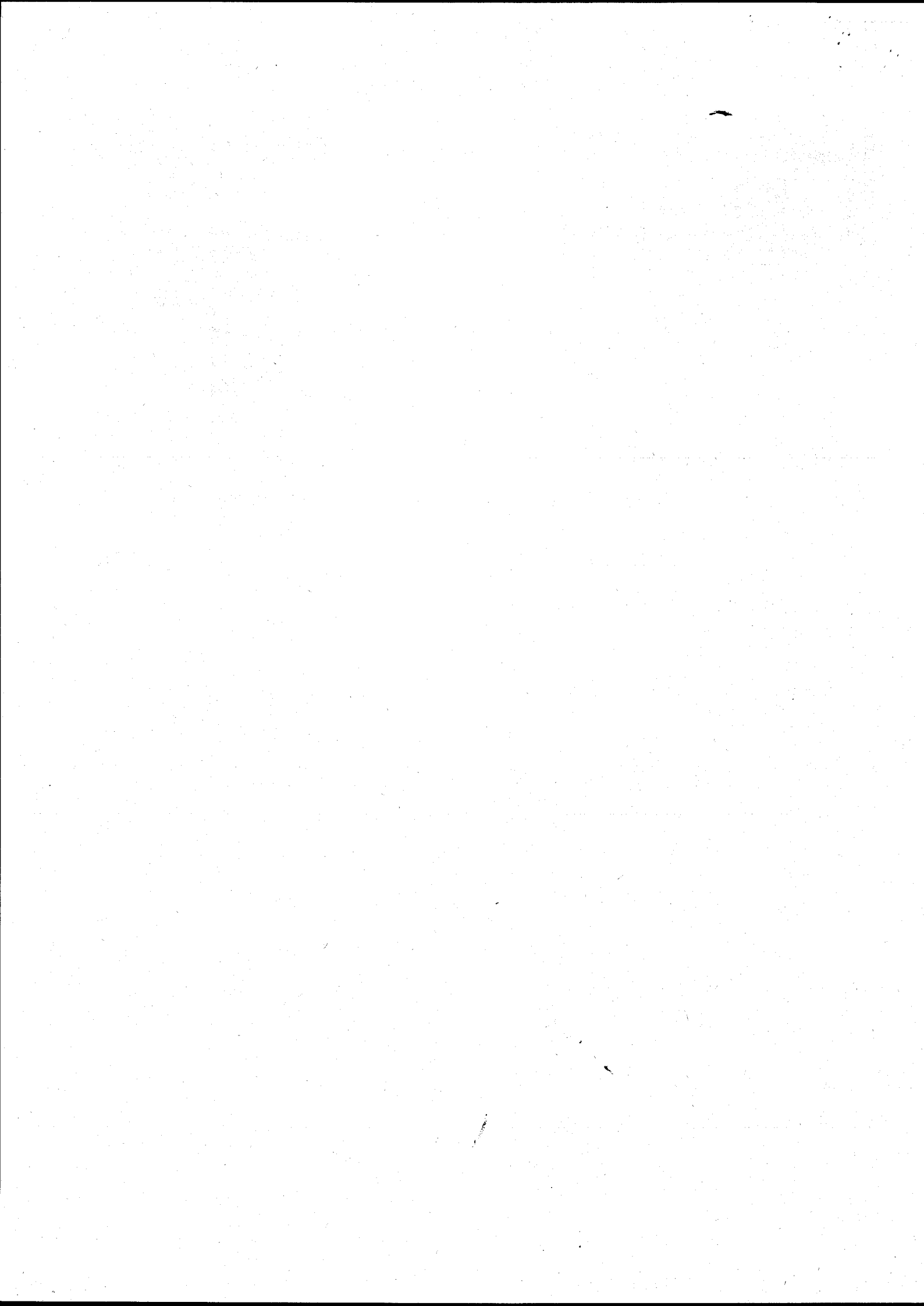
 A Hyder company

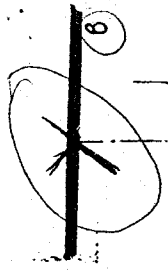
Dŵr Cymru Cyf, a limited company registered in Wales No 2366777
Registered office: Plas y Ffynnon, Cambrian Way, Brecon, Powys LD3 7HP
Dŵr Cymru Cyf, cwmni cyfyngedig wedi'i gofrestru yng Nghymru Rhif 2366777
Swyddfa gofrestru: Plas y Ffynnon, Efordd Cambria, Aberhonddu, Powys LD3 7HP



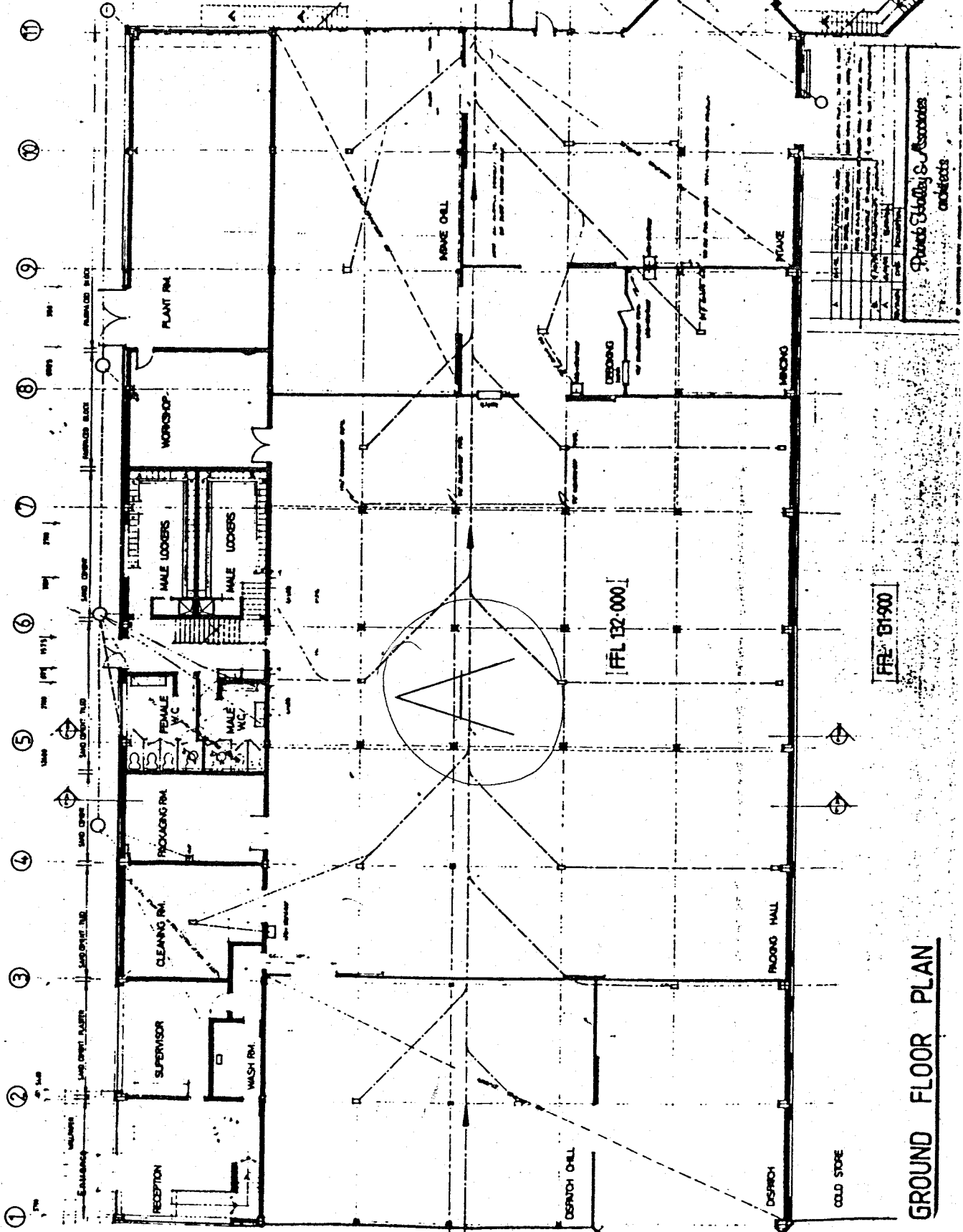
| | | | | | | | | | | | | | | | |
|------------------|--|---|--|-----------------------------------|--|------------------------|--|--------------------|--|-------------------------|--|----------------------|--|-------|--|
| Project | | CROSS HANDS WASTE WATER TREATMENT WORKS | | Title | | Schematic Flow Diagram | | 01 FOR INFORMATION | | Description of Revision | | Dwn. Ckd. Appd. Date | | 11/98 | |
| Author | | Checked | | Approved | | N.T.S. | | Project Code | | FL723 | | 070 | | 01 | |
| Hyder Consulting | | Fynnon Water, Swansea | | TEL 01792 771188 FAX 01792 701905 | | A3 Scale | | 070 | | 01 | | | | | |







MAIN RD.

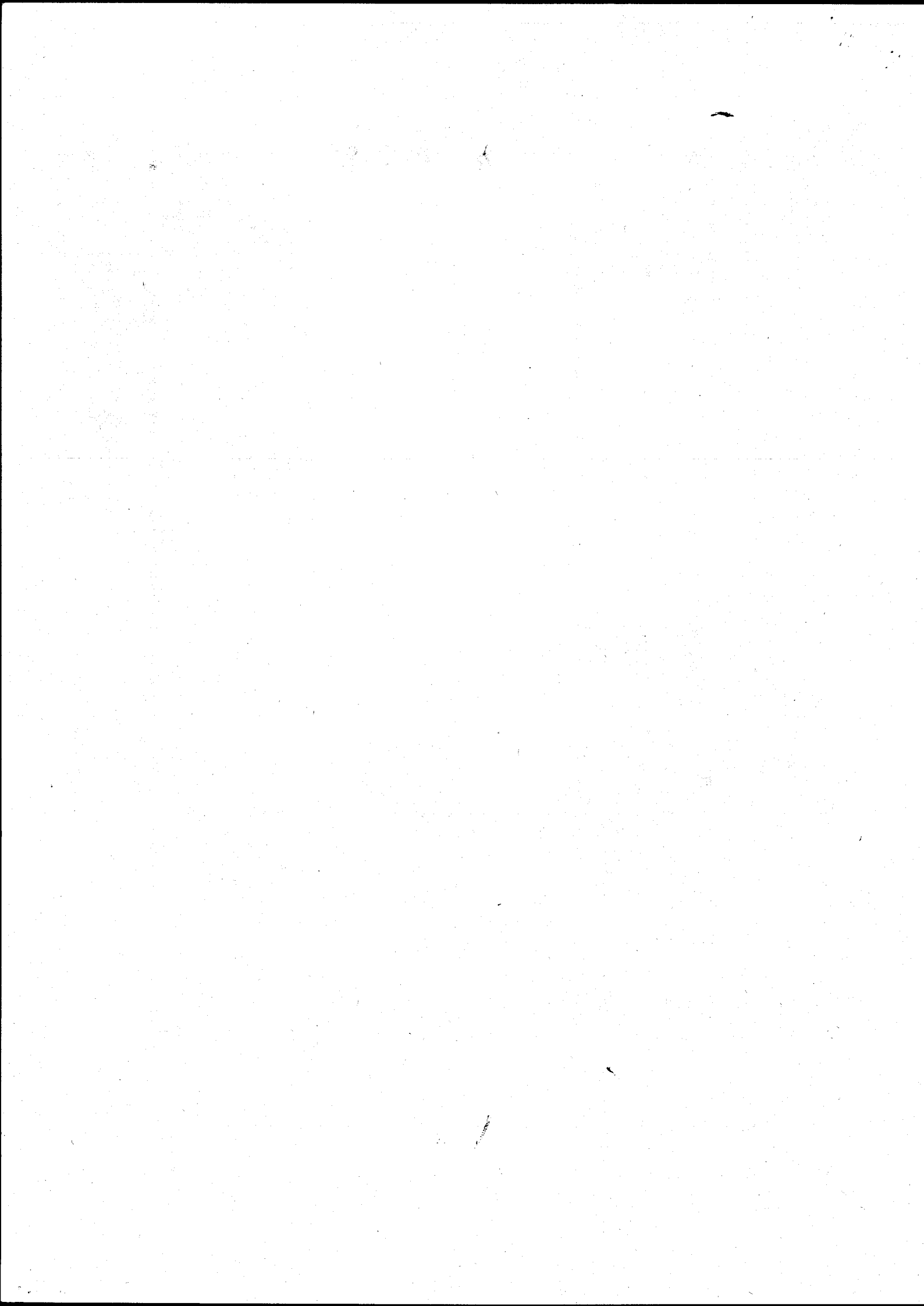


FFL 132.000

FFL 131.900

GROUND FLOOR PLAN

P. H. H. Architects
architects



5 DETAILS OF APPLICANT AND OTHER INFORMATION

5.1 (See general notes and note ix)

(a) Full name and postal address of applicant. This should be the person who will become the consent holder should consent be issued.

* DWR CYMRU WELSH WATER

* PLAS-Y-FFYNNON

* CAMBRIAN WAY

* BRECON

* POWYS

*

Post Code: LD3 7HP

Daytime Telephone Number: TONY ANDREWS 01874 6213181

Company Registration Number (if appropriate):

(b) Agent (if any) - Full name and postal address.

*

*

*

*

*

*

Post Code:

Contact Name and Daytime Telephone Number:

5.2

Please give full name and address to which bills should be sent if different to that given above:

*

*

*

*

*

*

Post Code:

Daytime Telephone Number:

5.3 Are there any other factors to be taken into account? Please continue on a separate sheet if necessary.

3.3 Please indicate source of the water supply - tick as appropriate:-

- | | | | |
|--|--------------------------|---|--------------------------|
| 1. Well | <input type="checkbox"/> | 5. River (please give name below) | <input type="checkbox"/> |
| 2. Borehole | <input type="checkbox"/> | 6. Estuary (please give name below) | <input type="checkbox"/> |
| 3. Precipitation (eg. rain or snow) | <input type="checkbox"/> | 7. Coastal Water (please give name below) | <input type="checkbox"/> |
| 4. Mains (please state water supply company) | <input type="checkbox"/> | | |

4 DETAILS OF RECEIVING ENVIRONMENT

4.1 Receiving Medium - tick the category(s) to which the proposed discharge(s) is(are) to be made:-

- | | | | |
|--|-------------------------------------|---------------------------------|--------------------------|
| 1. Estuarial Water (tidal river or stream) | <input type="checkbox"/> | 5. Into Land | <input type="checkbox"/> |
| 2. River or Stream (non-tidal) | <input checked="" type="checkbox"/> | 6. Onto Land | <input type="checkbox"/> |
| 3. Canal | <input type="checkbox"/> | 7. Directly into Groundwater | <input type="checkbox"/> |
| 4. Lake, Loch or Pond | <input type="checkbox"/> | 8. Coastal Water (see note vii) | <input type="checkbox"/> |

State name of receiving water if known:

4.2 In the case of sub-irrigation systems, soakaways or boreholes:-

- (a) Is any part of the system within 5 metres of the boundary of the premises?
- (b) Is any part of the system within 10 metres of a watercourse?
- (c) Is any part of the system within 50 metres of a borehole or spring?
- (d) For wells and boreholes state dimension(s) in metres. m
- (e) For sub-irrigation systems, soakaway pits, wells and boreholes, state maximum depth in metres. m
- (f) For boreholes, state details of lining in metres:
- (i) Depth of lining m
- (ii) Depth of perforated lining m
- (iii) Depth of unperforated lining m
- (g) A percolation test must be carried out in accordance with British Standard BS6297:1983. Have the results been provided?

4.3 Is there a foul sewer available to which the discharge(s) could be made (see note viii)?
If yes, please give the reasons it is not practical to connect to it (eg. distance, flow etc.).



ENVIRONMENT AGENCY

ANNEXE 1

SEWAGE EFFLUENT GREATER THAN 5 CUBIC METRES PER DAY

Please complete this annexe if you are proposing to discharge more than 5 cubic metres per day of sewage effluent (if the effluent is to contain a trade component Annexe 3 should also be completed).

*Official Use Only
Application No.*

1. Site Name.

CROSSHANDS STW
CROSSHANDS
CARMARTHEN

2. Please detail the type and number of treatment units you are proposing to use.

3. Volume, rates and overflow settings. (Please give volumes in cubic metres per day or litres per second as indicated below)

| | | | |
|----|---|--|------------------------|
| a) | Maximum flow to full treatment. (see note (ii) in main guidance notes for population equivalents). | | 1728 m ³ /d |
| b) | Dry weather flow of discharge(s). CURRENT 6.544 l/s } APPLICATION FUTURE 9.63 l/s } FOR 8 l/s | | 691 m ³ /d |
| c) | Average daily flow. 1.25 DWF | | 864 m ³ /d |
| d) | Maximum rate of discharge(s) | | 20 l/s |

4. Will there be provisions for storm/emergency discharges? Y/N
If yes, please complete Annexe 2.

5. a) Will any self monitoring take place? Y/N
If yes, please give details.

b) Will automatic sampling equipment be provided? Y/N
If yes, please give details of type and location (please indicate on plan).

6. a) Please state the maximum population served by the treatment works.

FUTURE DESIGN 3,736

b) Please give reasons for any variations in population eg. holiday resort, training area, seasonal industry etc. and detail the periods/times involved.

c) Please state type of catchment/site being served eg. residential, resort, industrial etc.

MAINLY DOMESTIC

7. Will a maintenance agreement be set up to manage the sewage works? (see note b)
If yes, please give details.

Y/N

8. Does the effluent contain a trade component?
If yes, please complete appropriate section on Annexe 3 for authorised discharges of trade effluent to the sewerage system.

Y/N

Notes (see also the notes attached to the main form):

- a) *For significant sewage treatment plants full details of the plant design, dry weather flow and Biochemical Oxygen Demand load, along with information on all discharges from the works must be included in order for the application to be processed. Flow monitoring will normally be required for such discharges and details of siting and type of flow recorders should be provided.*
- b) *The Agency require a single body or company to be responsible for the discharge and any bills raised under the Charges for Discharges Scheme. Where multiple dwellings under different ownership are connected to the same system a management company should be set up.*



ENVIRONMENT AGENCY

ANNEXE 2

SEWAGE EFFLUENT DISCHARGED IN STORM OR EMERGENCY CONDITIONS

Please complete this annexe if you are proposing to make a discharge of sewage in emergency or storm conditions (if the effluent is to contain a trade component then Annexe 3 should also be completed)

Official Use Only
Application No.

1. Site Name.

CROSSHANDS STW
CROSSHANDS
CARMARTHENSHIRE

2. State the type of discharge - tick as appropriate:-

- Storm tanks
- Combined Sewer Overflow from sewerage system SEE DRAWING FL723/070/01 OUTFALL CARRIES FINAL EFFLUENT SETTLED STORM AND SCREENED STORM FLOWS - TOTAL OF 377 L/S
- Combined Sewer Overflow from pumping station
- Emergency overflow from sewerage system
- Emergency overflow from pumping station ON SITE PS WHICH PUMPS TO PRIMARY TANKS
- Other (please specify)

3. For effluents discharging from sewage treatment works, is the storm/emergency effluent discharged via the same outlet as the treated effluent?

Y/N

If no please give: a) the National Grid Reference of the treated effluent outlet.

□ □ / □ □ □ □ / □ □ □ □

b) the consent or application number covering the treated effluent discharge.

If yes please give the National Grid Reference of the storm/emergency sampling point (see notes).

S N / 5 6 2 8 / 1 2 3 2

STORM & EMERGENCY SAMPLE POINT

4. For effluents discharging from combined sewer overflows, is the discharge via a dedicated pipe?

Y/N

If no please give the National Grid Reference of the overflow into the sewer.

□ □ / □ □ □ □ / □ □ □ □

5. Overflow settings

a) Overflow setting to storm tanks.

SEE DESIGN DRAWING
FL723/070/01.

28 l/s

b) Maximum flow to storm tanks.

APPLICATION IS FOR
20 l/s TO FULL TREATMENT
RATHER THAN THE 28 l/s
DESIGN FLOW TO FULL
TREATMENT

28 l/s

c) Overflow setting to storm sewage overflow.

48 l/s

d) Maximum flow to storm sewage overflow.

329 l/s

6. Storage capacity

a) Volume of Storm Tanks.

244 m³

b) Retention time of storm tanks at maximum flow.

AT FUTURE
28 l/s

2 Hours 25 min hours

c) Storage capacity of sewer/wet well.

/ m³/day

7. Please provide full details of the design criteria that have been used to support this application.

[Empty box for design criteria details]

8. Will facilities be provided to raise alarms (eg. telemetry)?

Y/N

If yes, please give details.

[Empty box for alarm details]

9. Will facilities be provided to prevent the discharge of gross solids?

Y/N

If yes, please give details (for screens give bar spacing or aperture).

ALL STORM FLOWS WILL PASS THROUGH AT LEAST
10 mm WEDGE WIRE SCREEN

10. What provisions will be made to deal with:

a) power failure (eg. standby generators)?

DIESEL GENERATOR ON SITE

b) mechanical breakdown (eg. standby pumps)?

FULL DUTY/STANDBY ARRANGEMENTS

c) rising main failure?

[Empty box for rising main failure provisions]

d) tanker access?

[Empty box for tanker access provisions]

Notes (see also the notes on the main form):

Full details of the design criteria must be provided in order for the application to be determined. If you have any queries about what information is required please contact the person given in notes attached to the main form.



ENVIRONMENT AGENCY

ANNEXE 3 TRADE EFFLUENT DISCHARGES

Please complete this annexe if you are proposing to discharge trade effluent (this includes site drainage).

*Official Use Only
Application No.*

1. Site Name.

CROSSHANDS STW
CROSSHANDS
CARMARTHEN

2. a) Describe in full the trade effluent and the process(es) from which it arises.

DAWN PAC LTD ARE CONSENTED TO DISCHARGE
TO THE CROSSHANDS SEWERAGE SYSTEM.
1996 VARIATION ATTACHED

b) Please state the type and number of treatment units you are proposing to use (if site drainage please include details of oil/petrol interception facilities).

3. **Rainfall Dependent Discharges**

a) Is the volume going to be rainfall dependent?

Y/N

b) If yes, please give the total area drained.

m²

c) Please give details of any activities which occur in the drainage area which could contaminate surface water (see note b)

4. **Rainfall Independent Discharges**

a) What is the maximum rate of discharge?

l/s

b) What is the average daily flow?

m³/d

c) For discharges where the source of supply is other than mains water:

i) give the abstraction licence number.

ii) give the National Grid Reference of a point where the influent can be sampled.

□□ / □□□□□ / □□ □□

5. a) Will any self monitoring take place?
If yes, please give details.

Y/N

b) Will automatic sampling equipment be provided?

Y/N

If yes, please give details of type, frequency and location (*please indicate on plan*).

6. a) Please state the maximum temperature in degrees Celsius of the effluent when discharged if different from ambient.

b) Will the discharge be monitored for temperature?

Y/N

If yes, please give details of type and location (*please indicate on plan*).

7. Has an application for Authorisation been made for a 'prescribed process' as defined in Part 1 of the Environmental Protection Act 1990?

Y/N

If yes, please complete the following:

a) The application reference.

c) Contact name of case officer.



ENVIRONMENT
AGENCY

WATER RESOURCES ACT 1991 (schedule 10)

(as amended by the Environment Act 1995)

Application for new consent/variation to an existing consent* to discharge

(* delete as appropriate)

| | |
|--|--|
| <p>Regional/Area Address:</p> <p>The Regional Finance Manager Environment Agency Welsh Region PO Box 425 St Mellons Business Park CARDIFF CF3 0LT</p> | <p><i>Official Use Only</i> <i>Dist/Area Ref:</i></p> <p><i>Application No.</i> B0001501 BP0265601/7011801 <i>Date Received:</i></p> <p><i>Fee Received:</i></p> |
|--|--|

Each applicant must complete the main form and may need to complete a separate annexe if appropriate. Please look through the form and read the notes carefully before you complete it. Processing of your application will be aided by full and accurate completion of all the relevant sections and provision of the necessary plans. If you have any queries regarding the form please contact the person given in the notes.

NOTE:

All information contained within this application will be made available on the public register unless there is a request to withhold any of it. Any such request should provide a full justification stating why the information needs to be withheld (see note xiii).

1 SITE ADDRESS

1.1 Address or other sufficient description of land or premises to which this application applies.

| |
|--|
| <p>CROSSHANDS STW CROSSHANDS CARMARTHENSHIRE</p> |
|--|

Post Code:

2 DETAILS OF DISCHARGE(S)

2.1 State the nature of the discharge(s) (see note i and ii) - tick one or more boxes as appropriate:-

Sewage Effluent - volume of 5 cubic metres per day or less

Sewage Effluent - volume greater than 5 cubic metres per day (complete annexe 1)

Sewage Effluent discharged under storm or emergency conditions (complete annexe 2)

Cooling Water (complete annexe 3)

Trade Effluent (including site drainage) (complete annexe 3)

Others (please specify)

2.2 Please state the maximum quantity it is proposed to discharge in any one day 1728 m³/day
Briefly state how this figure was calculated (see note ii).

3PG+I+3E EXISTING = 17.1 l/s
 FUTURE = 26.4 l/s.
 WHILST STW IS BEING DESIGNED TO TREAT 26.4 l/s, THIS APPLICATION
 COVERS GROWTH TO 20 l/s OR 1728 m³/d

2.3 a) Indicate proposed means of discharge - tick as appropriate and show on plan:-
(for 1, 2 & 3 please state dimensions below)

- | | | |
|---|--------------------------------------|--|
| 1. Pipe <input checked="" type="checkbox"/> | 4. Borehole <input type="checkbox"/> | 7. Sub-Irrigation System <input type="checkbox"/> |
| 2. Channel <input type="checkbox"/> | 5. Well <input type="checkbox"/> | 8. Combination of 6. & 7. <input type="checkbox"/> |
| 3. Culvert <input type="checkbox"/> | 6. Soakaway <input type="checkbox"/> | 9. Other (please specify below) <input type="checkbox"/> |

600 mm ϕ CONCRETE

b) National Grid Reference(s) of point(s) of discharge (see note iii).

S N / 5 6 9 8 / 1 1 5 2 (please indicate on accompanying plans)

2.4 a) The Agency will normally require adequate provision for the taking of samples of the discharge in a safe and convenient manner at any time. Please indicate the means proposed (see note iv) - tick as appropriate and show on plan:-

At the outlet At a manhole or sampling chamber

Other (please specify)

b) National Grid Reference(s) of sampling point(s). (If different from 2.3 b) above)

S N / 5 6 3 4 / 1 2 3 1 (please indicate on accompanying plans)

c) What flow measurement facilities will be provided (see note v)?
Please give details.

FLOW MEASUREMENT ON TREATMENT FLOWS

2.5 a) Type of Treatment Plant(s) to be used (please specify make and model) - tick as appropriate:-

Septic Tank Package Sewage Treatment Works Other

b) Will the treatment process involve the use of any chemicals (eg ferric salts, polyelectrolytes) Y/N
If yes please give details.

2.6 a) On what date do you anticipate the discharge will commence?

b) If you require the consent for a limited time period please give dates; from:

to:

c) If the discharge is not continuous please detail the period/circumstances when it will occur.

2.7 a) Are there any existing consents for discharge from the premises (see note vi)? Y/N
If yes, please give the reference numbers (Any further information should be given in section 5.3).

FE BC0001501

b) Has any person had a Prohibition Notice served on them in respect of this site? Y/N
If yes, please give the reference number.

3 SITE DETAILS

3.1 Please give the name of the relevant Planning Authority.

CARMARTHENSHIRE

3.2 Please give details of the premises - tick as appropriate:-

- | | | | |
|---|--------------------------|----------------------------|-------------------------------------|
| 1. Single Dwelling | <input type="checkbox"/> | 6. Fish Farm | <input type="checkbox"/> |
| 2. Multiple Dwellings | <input type="checkbox"/> | 7. Mineral Workings | <input type="checkbox"/> |
| 3. Industrial Premises | <input type="checkbox"/> | 8. Water Services plc STW | <input checked="" type="checkbox"/> |
| 4. Vehicle Parking Area | <input type="checkbox"/> | 9. Water Supply | <input type="checkbox"/> |
| 5. Commercial Premises (please specify) | <input type="checkbox"/> | 10. Other (please specify) | <input type="checkbox"/> |

DECLARATION

I/We:

1. apply under the Water Resources Act 1991 (as amended by the Environment Act 1995) for consent to discharge, as described in this Application. "This Application" means this page, all the other pages of this form and any attached annexes, the attached plan(s), any other sheets attached, and any other written information supplied to support the application.
2. enclose the required application fee, payable to the Environment Agency (see note x).
3. enclose 3 copies of the plan(s) and location maps with all relevant information clearly marked (see note xi).
4. will pay required advertising costs (see note xii).
5. confirm that I/we* will notify the Environment Agency of any changes in the information in this application which might be material to the continuation of the consent.
6. confirm that the information given in this application and any questions which the Environment Agency may have about it is/will* be true to the best of my/our* knowledge, information and belief and am/are* not aware of any other facts or information which might affect the granting of a consent, or conditions which might be put on it (see note xiii).
7. confirm that I/we* will pay any annual charges due should a consent be granted YES/NO*. If no please indicate who will by completing section 5.2 above (see note xiv).

(* Delete as appropriate)

| | |
|------------------------------------|---------------------------------|
| SIGNED: <u>A.R. Andrews</u> | PRINT NAME: <u>A.R. ANDREWS</u> |
| ON BEHALF OF: <u>Dwr Cymru Cyf</u> | DATED: <u>20.12.96</u> |

o o o

CONFIDENTIALITY

I/we apply for commercial confidentiality and enclose a full written justification (see note xv).

| | |
|---------------|--------------|
| SIGNED: | DATED: |
|---------------|--------------|

PLEASE RETURN THIS FORM TO THE ADDRESS GIVEN ON THE FRONT PAGE

8. a) Please indicate if any of the specified substances given below or their compounds will be present in the effluent and if so at what maximum concentration (please give values in micrograms per litre - ug/l). Please see note c.

| SUBSTANCE | CONCENTRATION (ug/l) | | | SUBSTANCE | CONCENTRATION (ug/l) | | |
|--------------------------------|----------------------|-----|------|---------------------------|----------------------|-----|------|
| | Max | Min | Mean | | Max | Min | Mean |
| Iron | | | | Lead | | | |
| Arsenic | | | | Malathion | | | |
| Atrazine | | | | Mercury | | | |
| Azinphos-ethyl | | | | Nickel | | | |
| Azinphos-methyl | | | | PCB's | | | |
| Boron | | | | PCSD's | | | |
| Cadmium | | | | Parathion | | | |
| Carbon tetrachloride | | | | Parathion-methyl | | | |
| Chloroform | | | | Pentachlorophenol (PCP) | | | |
| Chromium | | | | Perchloroethylene | | | |
| Copper | | | | Permethrin | | | |
| Cyanide | | | | pH < 5.5 or > 9.0 | | | |
| Cyfluthrin | | | | Phosphorus | | | |
| DDT | | | | Polychlorinated biphenyls | | | |
| 1,2 Dichloroethane | | | | Simazine | | | |
| Dichlorvos | | | | Sulcofuron | | | |
| Dioxins | | | | Tetrachloroethylene | | | |
| Drins (eg. Aldrin, Dieldrin) | | | | Tributyltin compounds | | | |
| Endosulfan | | | | Trichlorobenzene | | | |
| Fenitrothion | | | | Trichloroethane | | | |
| Fenthion | | | | Trichloroethylene | | | |
| Flucofuron | | | | Trifluralin | | | |
| Hexachlorobenzene (HCB) | | | | Triphenyltin compounds | | | |
| Hexachlorobutadiene (HCBd) | | | | Vanadium | | | |
| Hexachlorocyclohexanes (HCH's) | | | | Zinc | | | |

- b) Are there any other significant chemical components used on site which may be contained in the effluent, including biocides or additives? Y/N
 If yes, please give details.

Notes (see also the notes attached to the main form):

- a) For direct trade effluent discharges, full details of the type of the effluent are required (eg. cooling water from air conditioning units), along with typical analytical details and the results of any toxicity studies on the effluent or its constituents. In certain circumstances the Agency may require that specific samples be taken and tests and analysis carried out. The Agency is empowered to recover any costs incurred as a result of special studies.*
- b) Possible sources of contamination include oil/chemical storage areas, vehicle loading/unloading areas, heavy vehicle parking areas and oil/petrol filling points. Any other potential sources of contamination should be detailed.*
- c) Where discharges of trade effluent take place to a sewerage system, as covered by this application, please give details of all authorised discharges of substances listed in table 8 overleaf.*