

Eich cyf/Your ref.

Ein cyf/Our ref.

ACSC/CUST/SE/MS/AD0001702

Dyddiad/Date:

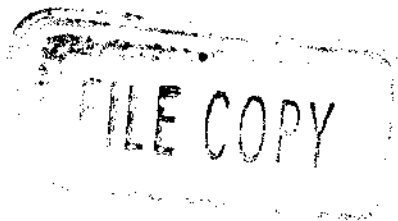
11 April 2005

Dwr Cymru
Pentwyn Road
Nelson
Treharris
Caerphilly
CF46 6YA



ASiantaeth Yr
Amgylchedd Cymru
ENVIRONMENT
AGENCY WALES

P/K.



Dear Dr. Keil

**WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995) APPLICATION FOR VARIATION OF CONSENT TO DISCHARGE SEWAGE EFFLUENT BY DWR CYMRU FROM TALYBONT WWTW, TALYBONT, POWYS LD3 7JE.
APPLICATION NO: AD0001702**

Further to your application for variation, the Agency has decided that consent should be given subject to conditions under the provisions of Section 88 of the Water Resources Act 1991. I enclose the Agency's formal notice of the variations made to the conditions of the consent to discharge sewage effluent at Talybont WwtW, Talybont, Powys LD3 7JE.

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 is 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. A change in conditions may therefore result in a change in annual charge, you may therefore receive a revised bill in due course.

If you are not satisfied with the new conditions of the consent you may appeal against the decision to the Secretary of State for the Environment at National Assembly for Wales at Cathays Park, Cardiff CF10 3NQ.

Please take careful note that if the holder of the consent changes, you must inform the Agency **IN WRITING** as soon as possible of the name of the new holder. This is to ensure that the rights and charges associated with the Consent are transferred to the new holder. A certificate of Holder notice will be sent to you shortly which is designed for this purpose, and should be kept safely with the Consent until required.

Asiantaeth yr Amgylchedd Cymru
Plas Yr Afon, Parc Busnes Llancirwg, Llancirwg, Caerdydd, CF3 0EY
Ffon: 029 20770088 Ffacs: 029 20798555
www.environment-agency.gov.uk

Environment Agency Wales
Rivers House, St Mellons Business Park, St Mellons, Cardiff, CF3 0EY
Tel: 029 20770088 Fax: 029 20798555
www.environment-agency.gov.uk



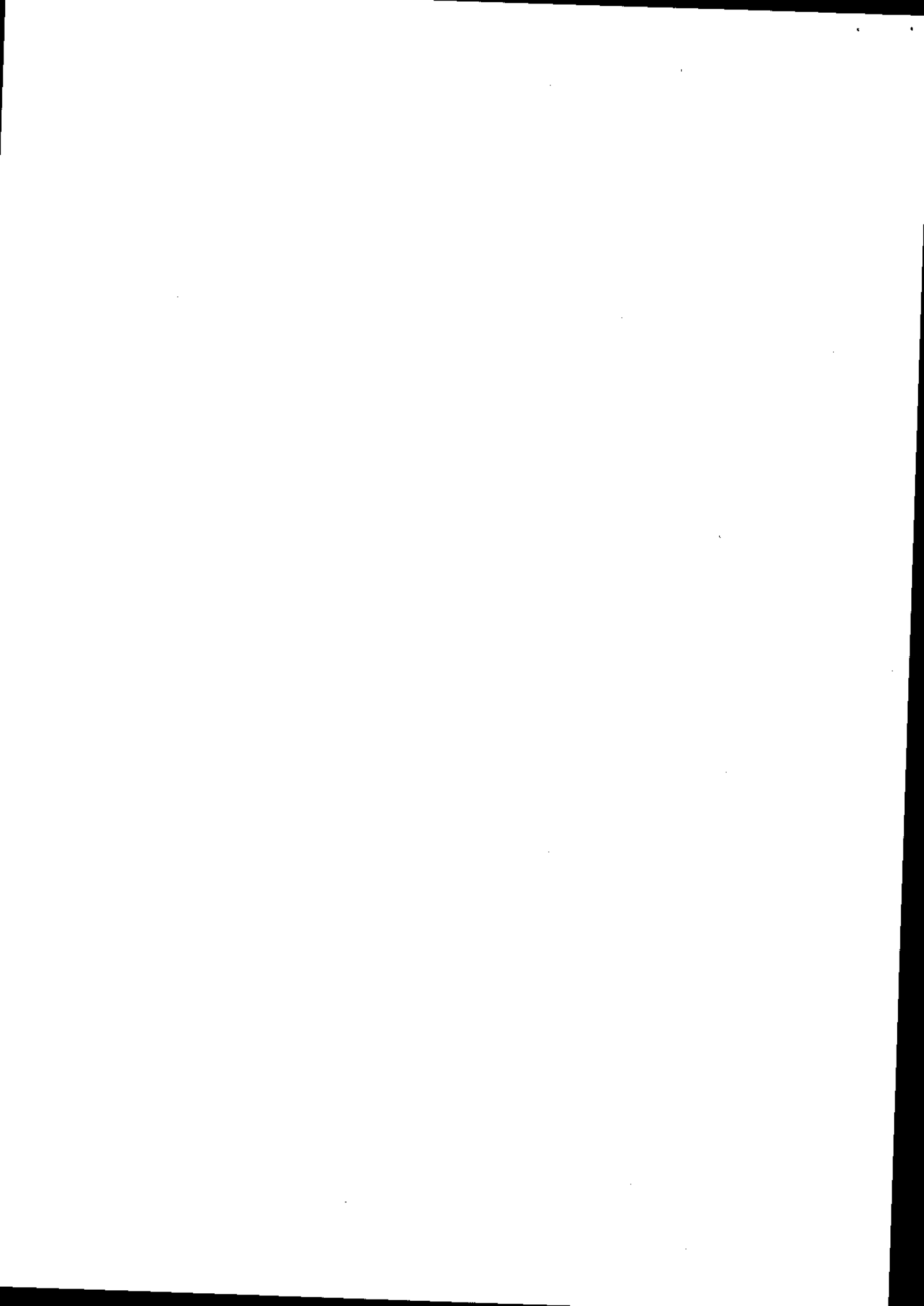


If you have any queries regarding the enforcement of this consent, please do not hesitate to contact John Tomala, Team Leader Environment Management, Environment Agency Wales.

Yours sincerely

A handwritten signature in black ink, appearing to read 'G. Inight', written in a cursive style.

GARY INIGHT
External Relations Team Leader



CONSENT NO.

AD0001702



ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

WATER RESOURCES ACT 1991

SECTION 88 - SCHEDULE 10

(AS AMENDED BY THE ENVIRONMENT ACT 1995)

CONSENT TO DISCHARGE

TO: Environment Quality Scientist
Dŵr Cymru Cyfyngedig
Pentwyn Road
Nelson
Treharris
CF46 6LY

In pursuance of an application by the consent holder for variation of consent, the ENVIRONMENT AGENCY ("The Agency") in pursuance of its powers under the Water Resources Act 1991 **HEREBY VARIES ITS CONSENT** to the making of a discharge OF **SEWAGE EFFLUENT**, as follows:

Settled Storm Sewage

with respect to Consent No. AD0001701 issued on the 29th day of August 1981

FROM: Talybont Sewage Treatment Works.

AT: Talybont, Powys, LD3 7JE.

TO: The River Caerfanell.

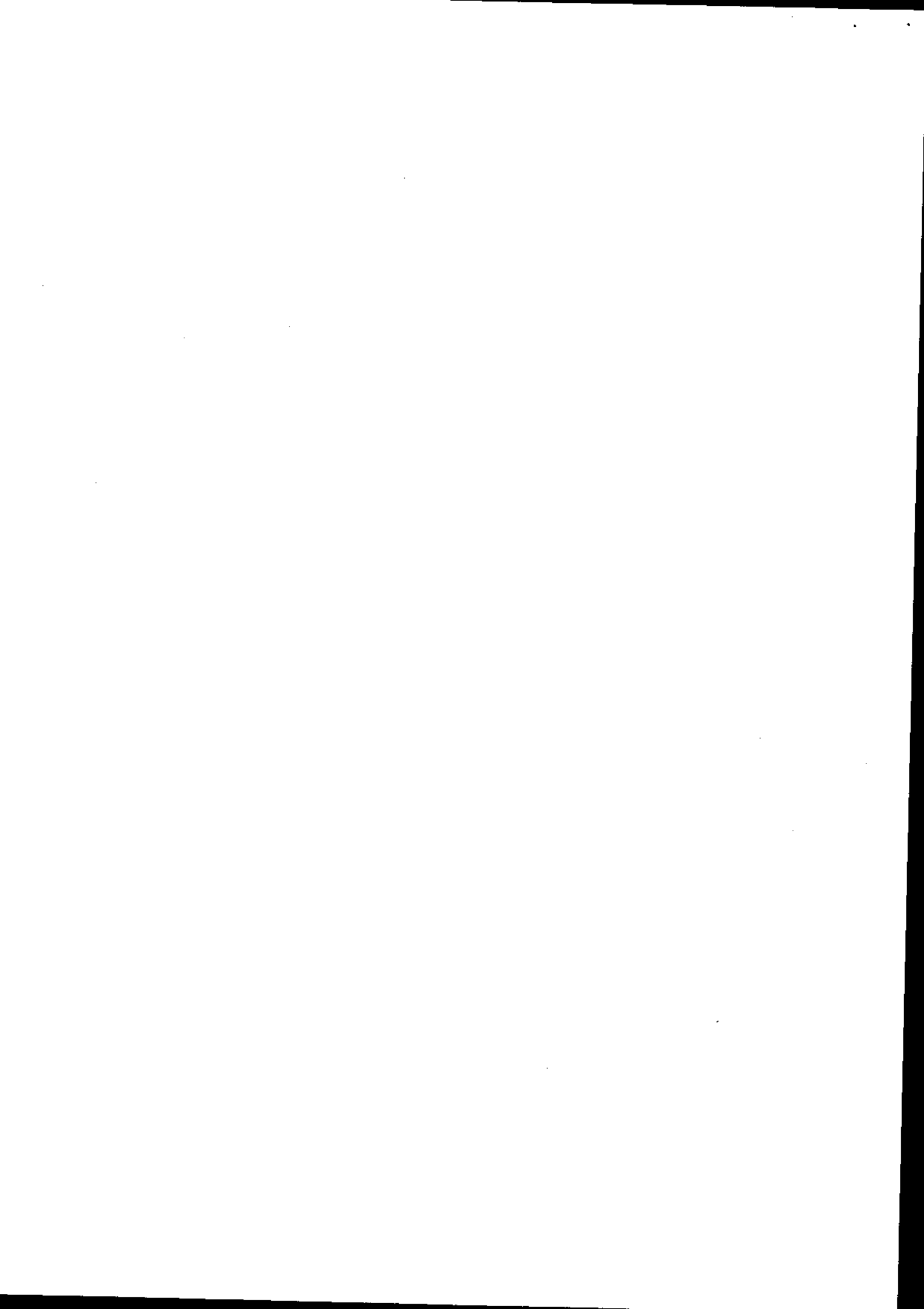
HEREAFTER SUBJECT TO the conditions set out in the following schedule(s):

Settled Storm Sewage Schedule No. AD000170201

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 of the Water Resources Act 1991, no notice shall be served by the Agency, which alters the effect of variations made to this consent, without the agreement in writing of the consent holder, during a period of 4 years from the date this variation is issued.

This variation of consent is issued on the 16th day of March 2005
and takes effect on the 31st day of March 2005.

Signed
Team Leader - Regulatory Water Quality



CONSENT NO.	AD0001702
SCHEDULE NO.	AD000170201
DATE ISSUED	18 th March 2005



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Amgylchedd Cymru
Environment
Agency Wales

CONDITIONS OF CONSENT TO DISCHARGE

Settled Storm Sewage ("the Discharge")

FROM: Talybont Sewage Treatment Works.

NATURE

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

LOCATION

2. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 225mm diameter pipe;
 - (b) discharging to The River Caerfanell;
 - (c) at National Grid Reference SO 12069 23056;
 - (d) shown marked 'Consent Point' on Plan AD0001702 attached as Annex 1.

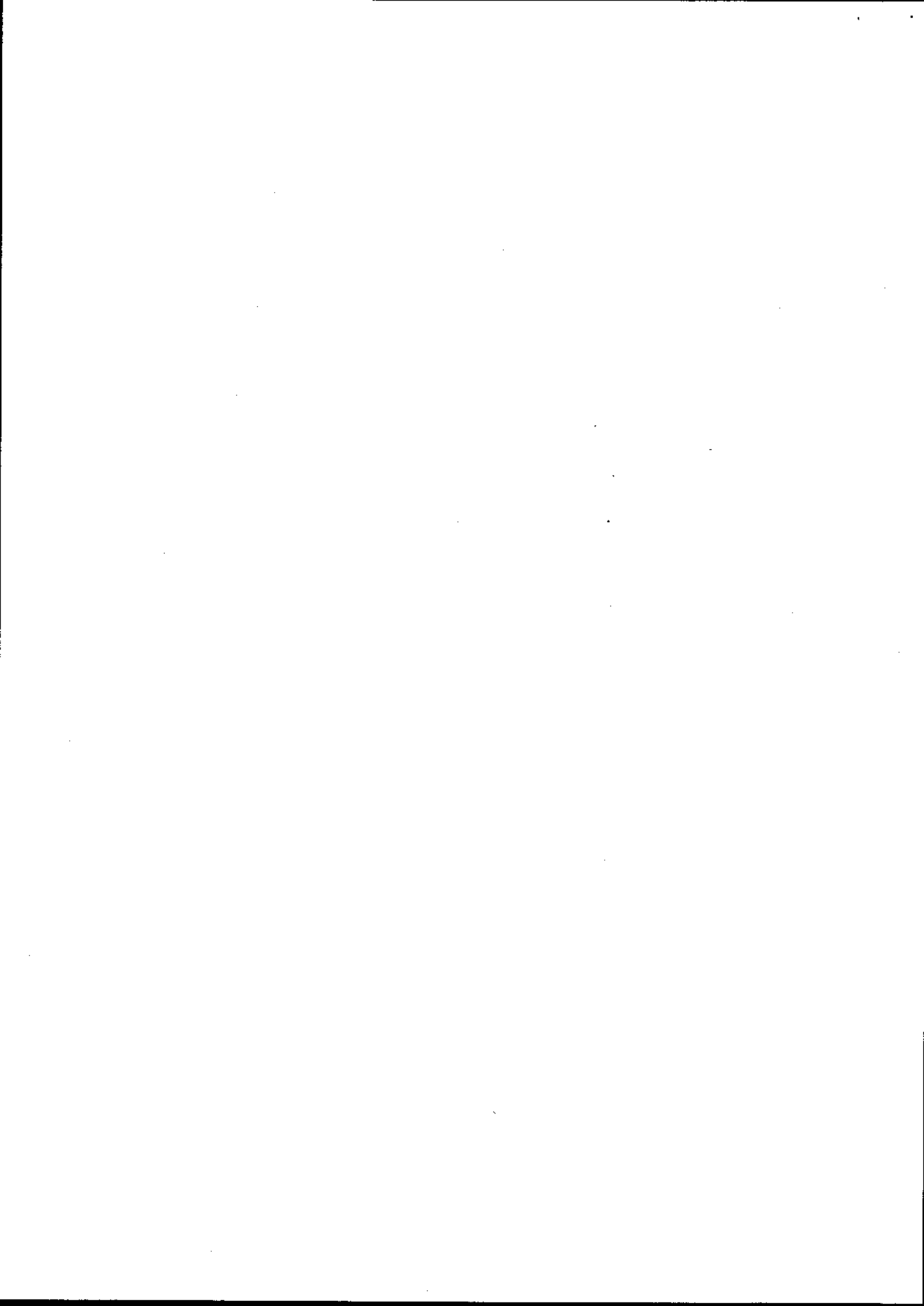
SAMPLE POINT

3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SO 12037 22805, as shown marked 'Sample Point' on Plan AD0001702/S, so that a representative sample of the Discharge may be obtained. The consent holder 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.

VOLUME

4. 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 only occur when the rate of flow at the storm sewage separating weir is in excess of 2.6 litres per second due to rainfall and/or snowmelt. The storm tanks shall be emptied and their contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tanks.
5. The capacity of the storm tanks shall be at least 26.7 cubic metres.





CONSENT NO.	AD0001702
SCHEDULE NO.	AD000170201



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COMPOSITION

6. (a) The Discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 6 millimetres in two dimensions.
- (b) The screening device shall be maintained in an efficient operational condition.
- (c) All screenings must be removed and disposed of in a manner such as to prevent entry to the discharge.

WORKS OPERATION

7. a) The works shall be operated and the effluent shall be treated in a manner which, so far as reasonably practicable, minimises the polluting effects of the Discharge made from the works on controlled waters.
- b) This condition does not require any alteration of the works or a change in the type of treatment used.

RECORDING AND REPORTING

8. (a) The consent holder shall establish and operate a documented maintenance programme and record all non-routine actions undertaken that may have adversely affected the operation of the storm tanks. Copies of the programme shall be made available for inspection by the Agency's officers at all reasonable times.
 - (b) On request the consent holder shall supply the Agency with a written report on the maintenance and all non-routine actions that may have adversely affected the operation of the storm tanks.
9. The consent holder shall notify the Agency in writing if any known or planned 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" (set out in Annex 3 to this notice as updated from time to time and notified to the consent holder in writing), and any other substance considered by the consent holder as having or likely to have a significant effect on the receiving waters.





CONSENT NO.	AD0001702
SCHEDULE NO.	AD000170201



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ENVIRONMENT
AGENCY WALES

SUBSTANTIAL CHANGE

10. A discharge shall not be made from the works if it would cause a significant increase in the polluting effects of the Discharge on controlled waters as a result of a new or altered discharge of trade effluent into the works.
11. A discharge of trade effluent into the works is new if -
- (a) it is made by the sewerage undertaker and is of a kind not made into the works by the undertaker immediately before the date of effect of this variation; or
 - (b) it is made by a third party and the discharge is authorised on or after that date.
12. A discharge of trade effluent into the works is altered if -
- (a) it is made by the sewerage undertaker and its composition or quantity changes significantly on or after the date of effect of this variation; or
 - (b) it is made by a third party and the alteration of the discharge is authorised on or after that date.
13. An increase in the polluting effects of the Discharge on controlled waters is not significant for the purposes of this condition if it relates to any characteristic of the Discharge which is specifically regulated by conditions in this consent but it may be significant if it is caused by a change in some other characteristic of the Discharge.
14. For the purposes of this condition "trade effluent" means -
- (a) any discharge by the sewerage undertaker other than
 - (i) domestic sewage from premises connected directly or indirectly to the works; or
 - (ii) surface water run-off;
 - (b) any discharge by a third party which is authorised under Chapter III of Part IV of the Water Industry Act 1991 or which is accepted as a result of a contract with the sewerage undertaker.





CONSENT NO.	AD0001702
SCHEDULE NO.	AD000170201



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Environment
Agency Wales

UNAUTHORISED DISCHARGES

15. A Discharge made from the works shall not contain any poisonous, noxious or polluting matter or solid waste matter which is attributable to any unauthorised discharge into the works.
- (a) A Discharge into the works is unauthorised if it is made by a third party and either there is no obligation to receive it or conditions subject to which there is an obligation to receive it are not observed.
- (b) Nothing in this, or any other, condition of this consent prevents anyone from relying on any defence available to them under Section 87 of the Water Resources Act 1991.

START DATE

16. There shall be no discharge under the terms of this consent until the 31st March 2005 or the start of commissioning of the settled storm overflow whichever is the sooner.





ANNEX 3



ASiantaeth Yr
Amgylchedd Cymru
ENVIRONMENT
AGENCY WALES

- | | |
|--|------------------------------|
| 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.

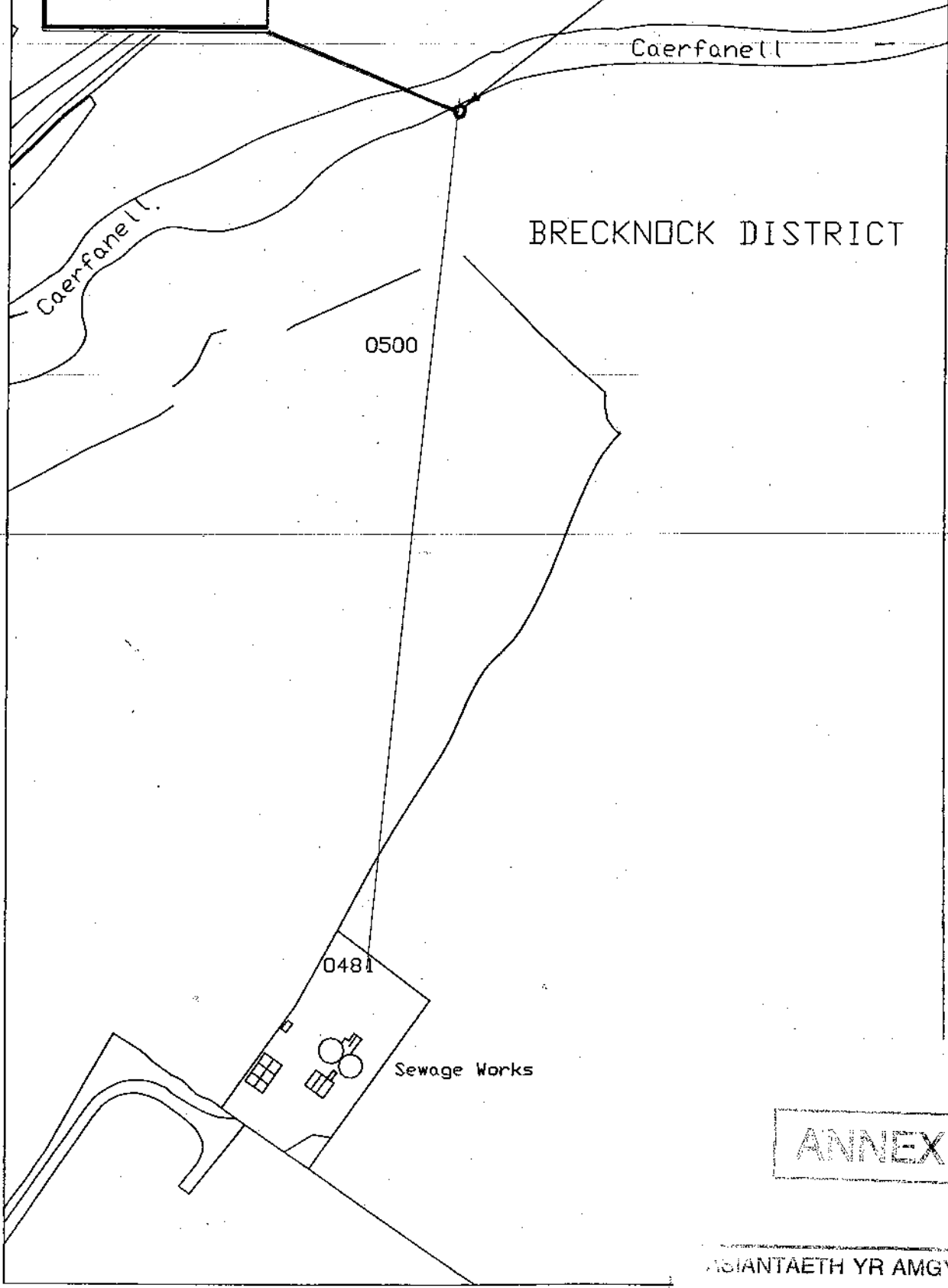
*Notification to the Agency by the Consent holder is only required in respect of changes to trade effluents likely to cause significant changes to the pH value, and/or iron or boron concentrations, of the crude sewage.





Water Resources Act
 Effluent Discharge Point
 SO 12069 23056

CONSENT POINT



ANNEX 1

ASIANTAETH YR AMGYLCHEDD
 ENVIRONMENT AGENCY

CONSENT PLAN NUMBER AD0001702

AUTHORISED SIGNATURE *[Signature]*



BLACK & VEATCH
 Black & Veatch Contracting Ltd.

-650 London Road, Iwerth, Middlesex, TW7 4EG

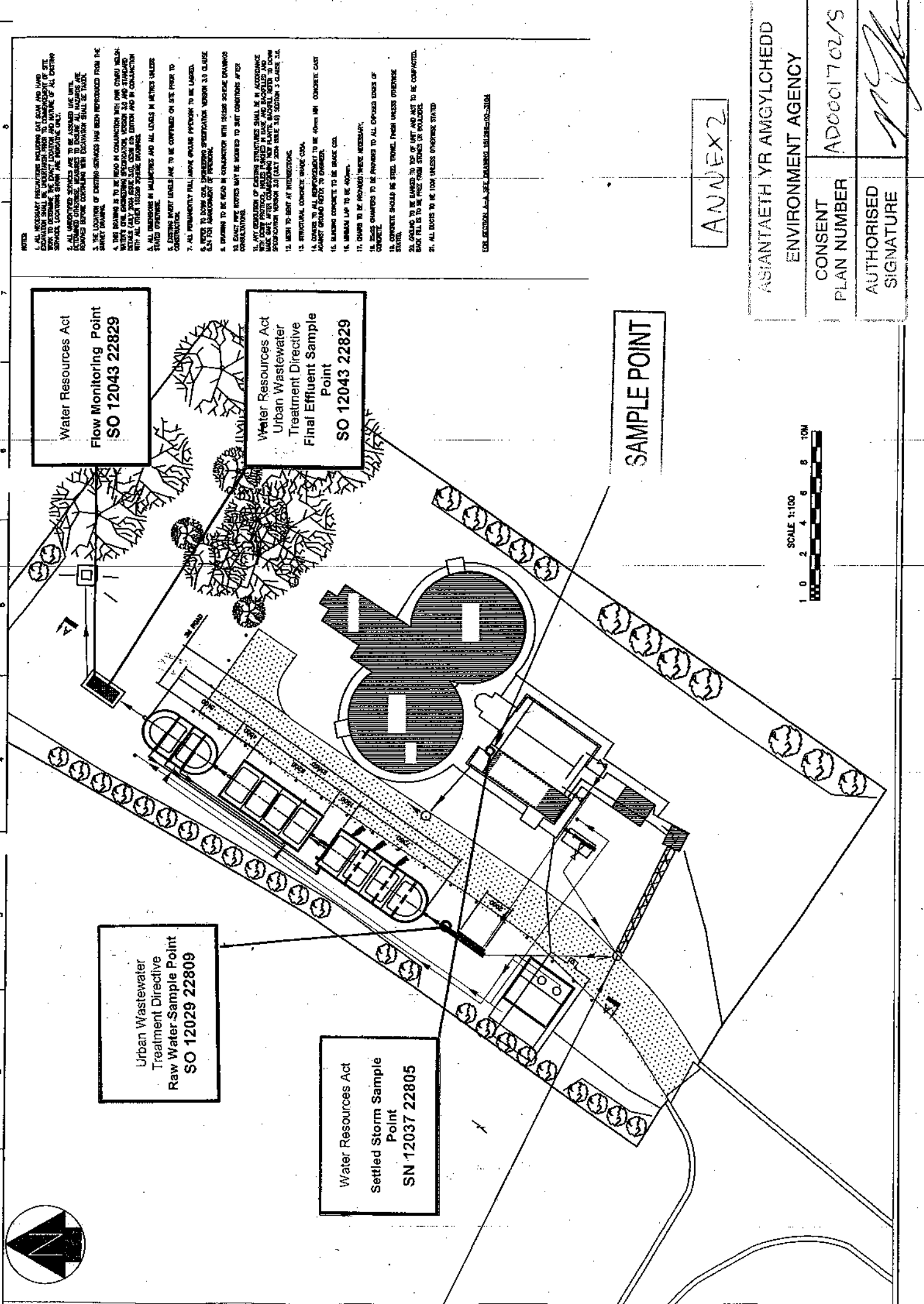
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ISSUE	REASON FOR ISSUE	DRAWN	CHECKED	APPROVED	DATE

NOT FOR CONSTRUCTION UNLESS OTHERWISE STATED

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Water Resources Act
Flow Monitoring Point
SO 12043 22829

Water Resources Act
Urban Wastewater
Treatment Directive
Final Effluent Sample
Point
SO 12043 22829

Urban Wastewater
Treatment Directive
Raw Water Sample Point
SO 12029 22809

Water Resources Act
Settled Storm Sample
Point
SN 12037 22805

SAMPLE POINT



ANNEX 2

- NOTES
1. ALL NECESSARY PRECAUTIONS INCLUDING DAY SIGN AND LIGHT EXPLANATION SHALL BE MAINTAINED FROM THE COMMENCEMENT OF SITE WORK UNTIL THE WORK IS COMPLETE AND THE NATURE OF ALL EXISTING SERVICES, UTILITIES AND STRUCTURES IS FULLY UNDERSTOOD.
 2. ALL EXISTING SERVICES SHALL BE IDENTIFIED AND MARKED PRIOR TO COMMENCEMENT OF WORK. THE LOCATION OF EXISTING SERVICES HAS BEEN REPRODUCED FROM THE SURVEY DRAWING.
 3. THE LOCATION OF EXISTING SERVICES HAS BEEN REPRODUCED FROM THE SURVEY DRAWING.
 4. THE LOCATION OF EXISTING SERVICES HAS BEEN REPRODUCED FROM THE SURVEY DRAWING.
 5. ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS STATED OTHERWISE.
 6. EXISTING INVERT LEVELS ARE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
 7. ALL DIMENSIONS SHALL INCLUDE PERMANENT TO BE LARGED.
 8. REFER TO DRAWING FOR DIMENSIONS OPERATIONAL NUMBER 3.0 CLAUSE 3.1 FOR DIMENSIONS OF PERMANENT.
 9. DIMENSIONS TO BE READ IN CONJUNCTION WITH DIMENSIONS OPERATIONAL NUMBER 3.0 CLAUSE 3.1.
 10. EXISTING INVERT LEVELS SHALL BE MAINTAINED TO SET CONDITIONS AFTER CONSTRUCTION.
 11. ANY EXISTING OF EXISTING STRUCTURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING REGULATIONS AND THE BUILDING REGULATIONS (PART 3) (LATE 2004 ISSUE 3.0) SECTION 3.1 CLAUSE 3.1.
 12. WORK TO BE AT INTERSECTIONS.
 13. STRUCTURAL CONCRETE GRADE COA.
 14. CONCRETE TO ALL REINFORCEMENT TO BE 40mm MIN CONCRETE CAST AGAINST GRADE REFER TO CHAMBER.
 15. FINISH CONCRETE TO BE BRICK COA.
 16. MINIMUM LAP TO BE 400mm.
 17. CHAMBERS TO BE PROVIDED WHERE NECESSARY.
 18. CHAMBERS TO BE PROVIDED TO ALL EXPOSED EDGES OF CONCRETE.
 19. CONCRETE SHALL BE STEEL TROWEL FINISH UNLESS OTHERWISE STATED.
 20. JOINTS TO BE BLENDED TO TOP OF MAT AND NOT TO BE COMPACTED BACK FILL IS TO BE FREE FROM STONES OR WOODLIES.
 21. ALL DIMENSIONS TO BE 100% UNLESS OTHERWISE STATED.

CON. SECTION 3.1-A SEE DRAWING 18/02/05-03/05/06

ASJANTAETH YR AMGYLCHEDD ENVIRONMENT AGENCY	
CONSENT PLAN NUMBER	AD0001702/S
AUTHORISED SIGNATURE	



PIR.



ASiantaeth YR
AMGYLCHEDD
ENVIRONMENT
AGENCY

WATER RESOURCES ACT 1991 (schedule 10)

(as amended by the Environment Act 1995)

Application for a variation to an existing consent to discharge

Settled Storm Discharge

<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> Dist/Area Ref: 1303</p> <p>Application No. AD0001702</p> <p>Date Received: 18/11/04.</p> <p>Fee Received:</p>	
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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 relevant sections and provisions 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.

Talybont WwTW Talybont Powys

Post Code:

LD3 7JE

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
Briefly state how this figure was calculated (see note ii).

Not Applicable

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 (<i>please specify below</i>) <input type="checkbox"/> |

225 mm

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

S	O	1	2	0	6	9	2	3	0	5	6
---	---	---	---	---	---	---	---	---	---	---	---

(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	O	1	2	0	3	7	2	2	8	0	5
---	---	---	---	---	---	---	---	---	---	---	---

(please indicate on accompanying plans)



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

No

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). If yes please give details.

No

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

31/03/05

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.

Not Applicable

2.7 a) Are there any existing consents for discharges from the premises (see note vi)?

Yes

If yes, please give the reference numbers (Any further information should be given in Section 5.3).

AD0001702 Settled Storm

AD0001701 Final Effluent

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

No

3 SITE DETAILS

3.1 Please give the name of the relevant Planning Authority.

Brecon

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

1. Single Dwelling

6. Fish Farm

2. Multiple Dwellings

7. Mineral Workings



3. Industrial Premises

8. Water Services plc STW

4. Vehicle Parking Area

9. Water Supply

5. Commercial Premises *(please specify)*

10. Other *(please specify)*



3.3 Please indicate source of the water supply - tick as appropriate: **Not Applicable**

- | | | | |
|--|--------------------------|---|--------------------------|
| 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"/> | <input type="text"/> | |

4 DETAILS OF RECEIVING ENVIRONMENT

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

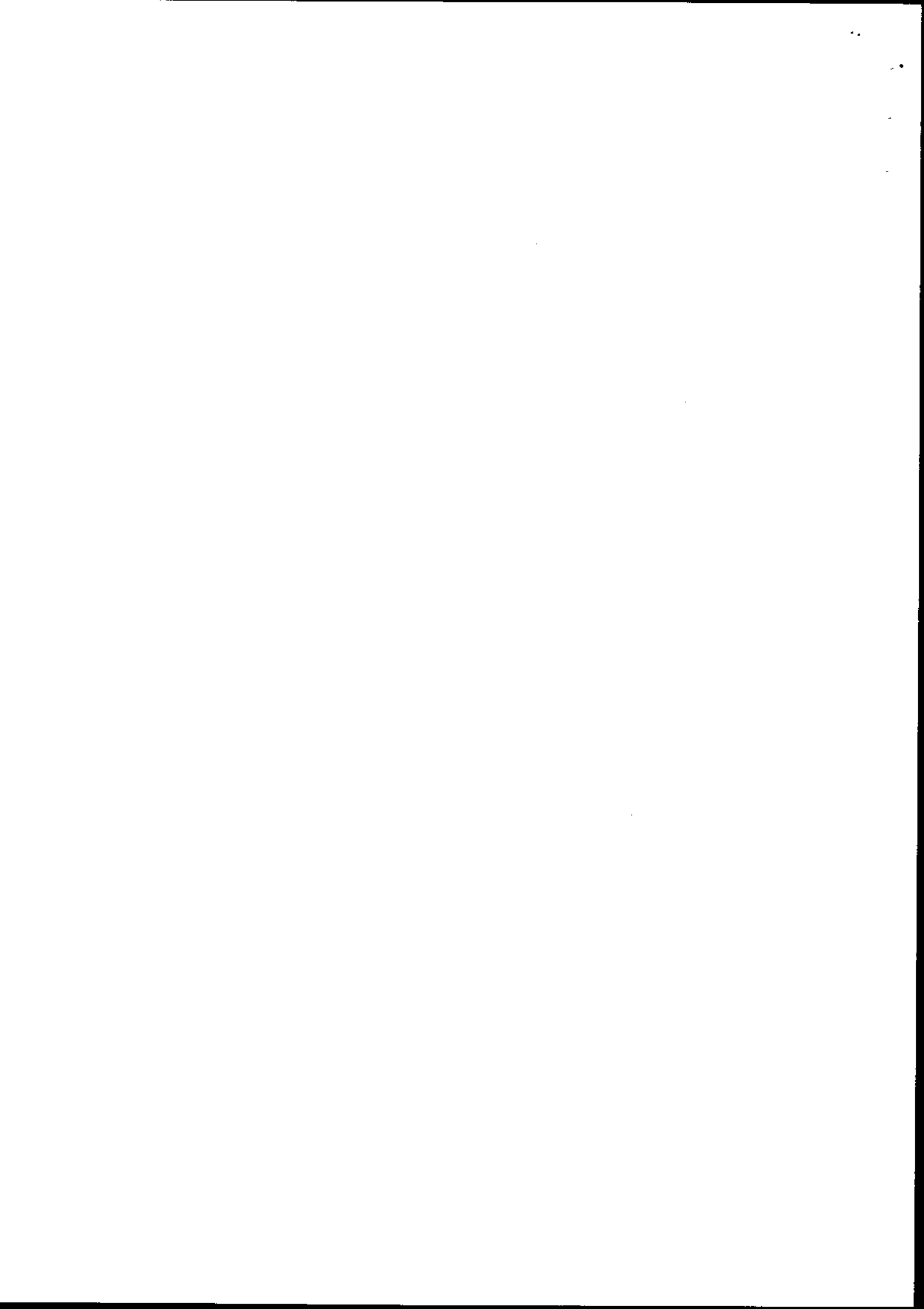
- | | | | |
|--|-------------------------------------|---------------------------------|--------------------------|
| 1. Estuarial Water (tidal river or stream) | <input type="checkbox"/> | 5. Into Land | <input type="checkbox"/> |
| 2. River or Stream (non-tidal) | <input checked="" type="checkbox"/>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

State name of receiving water if known:

River Caerfanell

4.2 In the case of sub-irrigation systems, soakaways or boreholes: **Not Applicable**

- (a) Is any part of the system within 5 metres of the boundary of the premises? Y/N
- (b) Is any part of the system within 10 metres of a watercourse? Y/N
- (c) Is any part of the system within 50 metres of a borehole or spring? Y/N
- (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?

Y/N

- 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).

Y/N



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
- * Pentwyn Rd
- * Nelson
- * Treharris
- * Mid Glam
- *

Post Code: CF46 6LY

Daytime Telephone Number:

Company Registration Number (if appropriate): 2366777

(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.



DECLARATION

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 Environmental 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 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 true to the best of our knowledge, information and belief and 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 we will pay any annual charges due should a consent be granted YES. If no please indicate who will be completing section 5.2 above (see note xiv).

SIGNED: Lewis Keel PRINT NAME: LEWIS KEEL
 ON BEHALF OF: DWR CYPRUS CYF DATED: 17/10/04

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

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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 Annex 3 should also be completed).

Official Use Only
Application No.

1. Site Name.

Talybont STW

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

- Storm tanks
- Combined Sewer Overflow from sewerage system
- Combined Sewer Overflow from pumping station
- Emergency overflow from sewerage system
- Emergency overflow from pumping station
- 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?

Yes

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 O 1 2 0 3 7 2 2 8 0 5

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

N/A

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



5. Overflow settings

- a) Overflow setting to storm tanks 2.6 l/s
- b) Maximum flow to storm tanks Not Applicable
- c) Overflow setting to storm sewage overflow N/A l/s
- d) Maximum flow to storm sewage overflow N/A l/s

6. Storage capacity

- a) Volume of Storm tanks 26.7 m³
- b) Retention time of storm tanks at 3PG+I+3E 2.85 hours
- c) Storage capacity of sewer/wet well N/A m³

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

Calculation number 151298-00-1002 Revision A
Calculation number 151298-00-1003 Revision A

8. Will facilities be provided to raise alarms (eg telemetry)? No
If yes, please give details.

9. Will facilities be provided to prevent the discharge of gross solids? Yes
If yes, please give details (for screens give bar spacing or aperture).

6 mm perforated plate screens.

10. What provisions will be made to deal with:

- a) power failure (eg standby generators)? None
- b) mechanical breakdown (eg standby pumps)? None
- c) rising main failure? N/A
- d) tanker access? Yes

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.





ANNEXE 4
WELSH REGION SUPPLEMENTARY INFORMATION ANNEXE

Please complete this annexe for every proposed discharge.

Official Use Only
Application No.

For all proposed discharges:

1. Site Name.

Talybont STW

2. Is this application being made to reinstate a lapsed Consent?

No

If so, please state the Number of the lapsed Consent:

IMPORTANT: If you are in need of advice on either part of Question 2, please contact the Agency Regional Consents Section on 01222 770088.

3. If the proposed discharge is to be made down a pipe, channel or culvert (as given in Section 2.3 of the main application form), please state the diameter (including units):

225 mm

4. Please indicate the anticipated cost of the proposed scheme, including any alternatives which may have been considered:

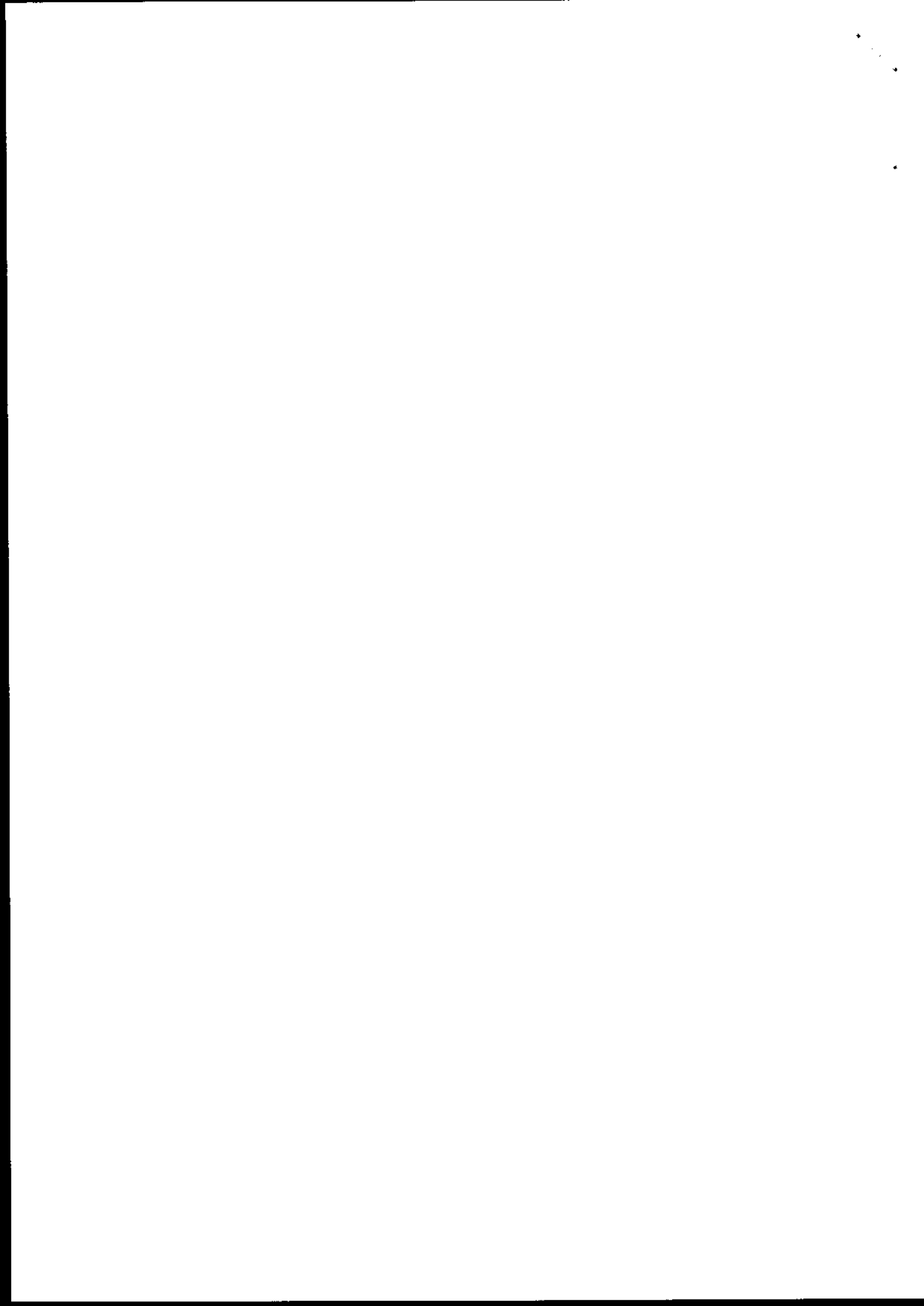
900,000

5. Is there any trade effluent component in the proposed discharge?

No

If yes, please confirm here that you have completed and enclosed Annexe 3:

Tick



6. Will the proposed discharge be pumped or made under gravity? (please circle)

If pumped, please state the maximum pump rate in l/sec:

For proposed discharges of sewage in storm or emergency conditions:

7. Please confirm here that you have completed and enclosed both Annexes 1 and 2:

8. Please state:

Population served (head)	381
Consumption (l/head/day) default = 180	180
Infiltration (m ³ /day)	21
Industrial effluent flow (m ³ /day)	0
Dry Weather Flow (m ³ /day)	89
Soc A (l/sec)	7
Predicted spill frequency (per annum)	Not Known

IMPORTANT NOTES FOR ALL CONSENT APPLICATIONS:

1. **Whoever signs the declaration on the main application form takes responsibility for the discharge, and will become the registered consent holder, if consent is given. In the case of a 'body corporate' (eg a public limited company ('plc'), limited, company, local authority), the 'body corporate' will be the registered consent holder, and the person with the delegated authority to sign on behalf of the 'body corporate' should give their job title.**
2. **Agents making an application on behalf of a client, must attach their clients written authority.**
3. **If the name and/or address of the applicant changes after submission of this application to the Environment Agency, the applicant must inform the Agency in writing.**



Calculations

Document Number : 151298-00-1002

Title : Population definition and site loading

Tag No.

Client : DCWW AMP3

Contract Title : Talybont

Contract Number : 151298

Rev	Date	Revision Description	Pages	Prepared	Checked	Approved
A	28/06/2004		5			

Reason For Issue

- | | | | |
|--------------------------|------------------|-------------------------------------|--------------|
| <input type="checkbox"/> | For Enquiry | <input checked="" type="checkbox"/> | For Review |
| <input type="checkbox"/> | For Information | <input checked="" type="checkbox"/> | For Approval |
| <input type="checkbox"/> | For Construction | | |



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A Black And Veatch Company
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Fax: 44 (0) 20-8568-5479

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Client:

DCWW AMP 3

Subject:

Talybont STW

1.0 Population equivalent of catchment**1.1 Population from AIS House count**

Population per dwelling	=	2.8
Population per School pupil	=	0.3
Population per public house	=	20

	No	Pop/Unit	Per Pop	p.e
Housing	140	2.8	1	392
Schools	1	Pupils 30	0.3	9
		Staff 8	0.3	2.4
Public Houses	1	20	1	20

Population equivalent of catchment

423
1.2 Population from 2001 census

The census data could not be used for this catchment as the output area boundaries extend into other catchments.

1.3 Population from flow and load survey

Basis	p.e.
Flow	321
Ammonia	340
Population equivalent of catchment	321

The flow is taken from surveys carried out after repairs on the sewer network but still assumes 30% infiltration.

Calculated by:

Peter Woollard

Checked by:

Pat Coleman

Job no:

151298-00-1002

Revision

A

Sheet

1 of 5

Client: DCWW AMP 3	Subject: Talybont STW
-----------------------	--------------------------

1.4 Summary of population data

Current STAM population	=	319
Population from AIS	=	403
Population from census	=	Not available
Population from flow and load	=	321
Population used as basis for design	=	320

There has been very little growth in the village in recent times. The lower population reflects this and the low occupancy rate of some of the dwellings.

This is the base population of the works for the current operation. This must also include any growth to give the design horizon for the works. This is calculated in section2.

1.5 Trade consent data

Trader	Flow m3/d	BOD kg/d	COD kg/d	TSS kg/d	NH4-N kg/d
	=				
	=				
	=				
	=				
	=				
Total Trade flows	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

There are no consented trade wastes on the catchment. There is one cattle market which is active weekly but this is not connected to the network.

Calculated by:	Checked by:	Job no:	Revision
Peter Woollard	Pat Coleman	151298-00-1002	A
			Sheet
			2 of 5

Client: DCWW AMP 3	Subject: Talybont STW
-----------------------	--------------------------

3.2 Load

Loading per capita

BOD = 60 g/hd.d

TSS = 72 g/hd.d

Ammonia = 8 g/hd.d

Loading onto works

BOD = 23 kg/d

TSS = 27 kg/d

AMMONIA = 3 kg/d

Calculated by:	Checked by:	Job no:	Revision
Peter Woollard	Pat Coleman	151298-00-1002	A
			Sheet
			5 of 5



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www.bvcontracting.uk.com

Calculations

Document Number :	151298-00-1003
Title :	Sizes of Existing Process Units
Tag No.	
Client :	AMP 3
Contract Title :	Talybont STW
Contract Number :	151298

Reason for Issue

- | | | | |
|-------------------------------------|------------------|--------------------------|--------------|
| <input type="checkbox"/> | For Enquiry | <input type="checkbox"/> | For Review |
| <input checked="" type="checkbox"/> | For Information | <input type="checkbox"/> | For Approval |
| <input type="checkbox"/> | For Construction | | |

Rev	Date	Revision Description	Pages	Prepared	Checked	Approved
A	07/10/2003	For information	2			

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Client: Talybont STW		Subject: Sizes of Existing Process Units	
1 Primary settlement			
Number of units	=	2	
Width	=	1.30	m
Length	=	4.5	m
Depth	=	1.5	m
Surface area	=	5.85	m ²
Volume of tank	=	8.92	m ³
Total Surface area	=	<u>11.7</u>	m ²
Total Volume of tank	=	<u>17.8</u>	m ³
2 Biological Filters			
Number of units	=	2	
Filter diameter	=	7.0	m
Filter centre well diameter	=	1.8	m
Wetted surface area per filter	=	35.9	m ²
Average filter depth	=	1.2	m
Filter volume	=	43.1	m ³
Total filter surface area	=	<u>72</u>	m ²
Total filter volume	=	<u>86</u>	m ³
Calculated by:	Checked by:	Job no:	Revision A
Peter Woollard	Pat Coleman	151298-00-1003	Sheet 1 of 2

Client: Talybont STW	Subject: Sizes of Existing Process Units
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3 Humus Settlement tank

Number of units	=	2	
Width	=	1	m
Length	=	3.1	m
Depth	=	1.5	m
Surface area	=	3.10	m ²
Volume of tank	=	4.73	m ³
Total Surface area	=	<u>6.2</u>	m ²
Total Volume of tank	=	<u>9.5</u>	m ³

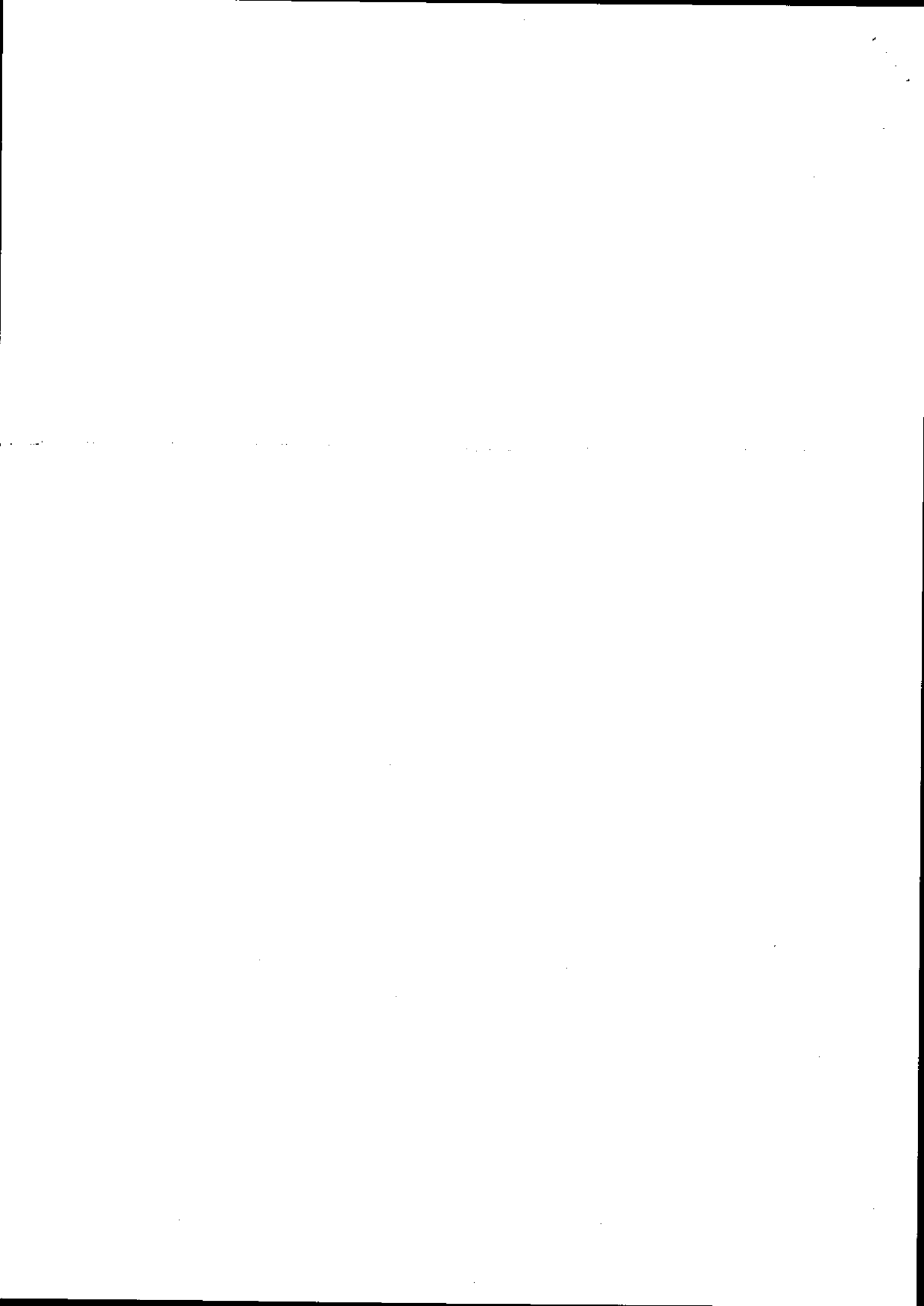
4 Storm tank

Number of units	=	1	
Width	=	1.3	m
Length	=	4.5	m
Depth	=	1.5	m
Surface area	=	5.85	m ²
Volume of tank	=	8.92	m ³
Total Surface area	=	<u>5.9</u>	m ²
Total Volume of tank	=	<u>8.9</u>	m ³

Notes:

1. The Primary, storm and humus tanks have a slight slope from the outlet to the inlet to allow draining and sludge removal. The depth given is the average of the depth at each end of the tank as measured on site.

Calculated by:	Checked by:	Job no:	Revision	A
Peter Woollard	Sharon Jones	151298-00-1003	Sheet	2 of 2



- NOTES**
1. ALL NECESSARY PRECAUTIONS INCLUDING GUT CLEAN AND LEAKS EXAMINATION SHALL BE UNDERTAKEN PRIOR TO COMMENCEMENT OF SITE CONSTRUCTION. LOCATIONS SHOWN ARE INDICATIVE ONLY.
 2. ALL DIMENSIONS UNLESS OTHERWISE NOTED TO BE AS SHOWN UNLESS OTHERWISE SPECIFIED.
 3. THE LOCATION OF EXISTING SERVICES HAS BEEN REPRODUCED FROM THE SURVEY DRAWING.
 4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE CIVIL WORKS SPECIFICATIONS AND EXISTING SPECIFICATIONS, VERSION 3.0 AND STANDARD DETAILS (CITY 2004 ISSUE 3.0, CDM 04 EDITION) AND IN CONJUNCTION WITH ALL OTHER TENDER SOURCE DOCUMENTS.
 5. ALL DIMENSIONS IN MILLIMETERS AND ALL LEVELS IN METERS UNLESS SHOWN OTHERWISE.
 6. EXISTING INVERT LEVELS ARE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
 7. ALL PROBABLY FULL ABOVE GROUND PIPING TO BE LAGGED.
 8. REFER TO LOCAL COUNCIL ENGINEERING SPECIFICATION VERSION 3.0 CLAUSE 8.4 FOR REINFORCEMENT OF PIPEWORK.
 9. DRAWING TO BE READ IN CONJUNCTION WITH OTHER TENDER DRAWINGS.
 10. EXISTING PIPE WORKING MAY BE WORKED TO SUIT CONDITIONS AFTER CONSULTATION.
 11. THE PROVISION OF EXISTING STRUCTURES SHALL BE IN ACCORDANCE WITH THE LOCAL COUNCIL ENGINEERING SPECIFICATION VERSION 3.0 CLAUSE 8.4. MAKE SURE AFTER CONSULTATION WITH PLANNING, ASSETTEL REFER TO TENDER SPECIFICATION NUMBER 3.0 (CITY 2004 ISSUE 3.0) SECTION 3 CLAUSE 3.3.
 12. MESH TO BE SET AT INTERSECTIONS.
 13. STRUCTURAL CONCRETE GRADE: C30.
 14. COVER TO ALL REINFORCEMENT TO BE 40mm MIN CONCRETE CAST AGAINST EXISTING PIPES TO ENHANCE.
 15. SLABING CONCRETE TO BE GRADE C30.
 16. NUMBER LAP TO BE 400mm.
 17. CHANGES TO BE PROVIDED WHERE NECESSARY.
 18. 25mm CHAMBERS TO BE PROVIDED TO ALL EXPOSED ENDS OF CONCRETE.
 19. CONCRETE SHOULD BE STEEL TYPED, FINISH UNLESS OTHERWISE STATED.
 20. GRADING TO BE BANKED TO TOP OF LIFT AND NOT TO BE COMPACTED BACK FILL IS TO BE FREE FROM STONES OR BOLLERS.
 21. ALL FACTS TO BE 100% UNLESS OTHERWISE STATED.

FOR SECTION A-A, SEE DRAWING 151298-00-S102

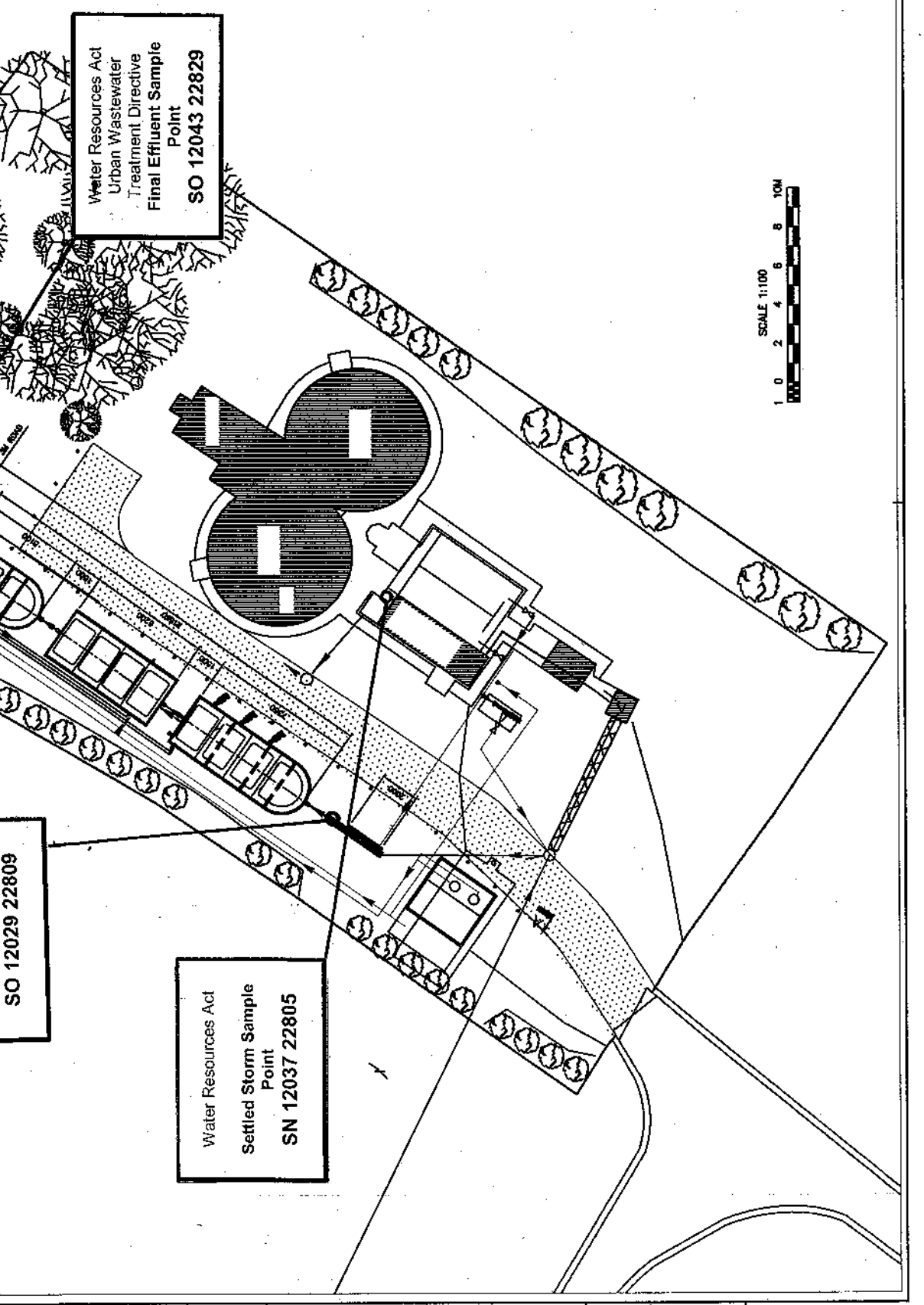
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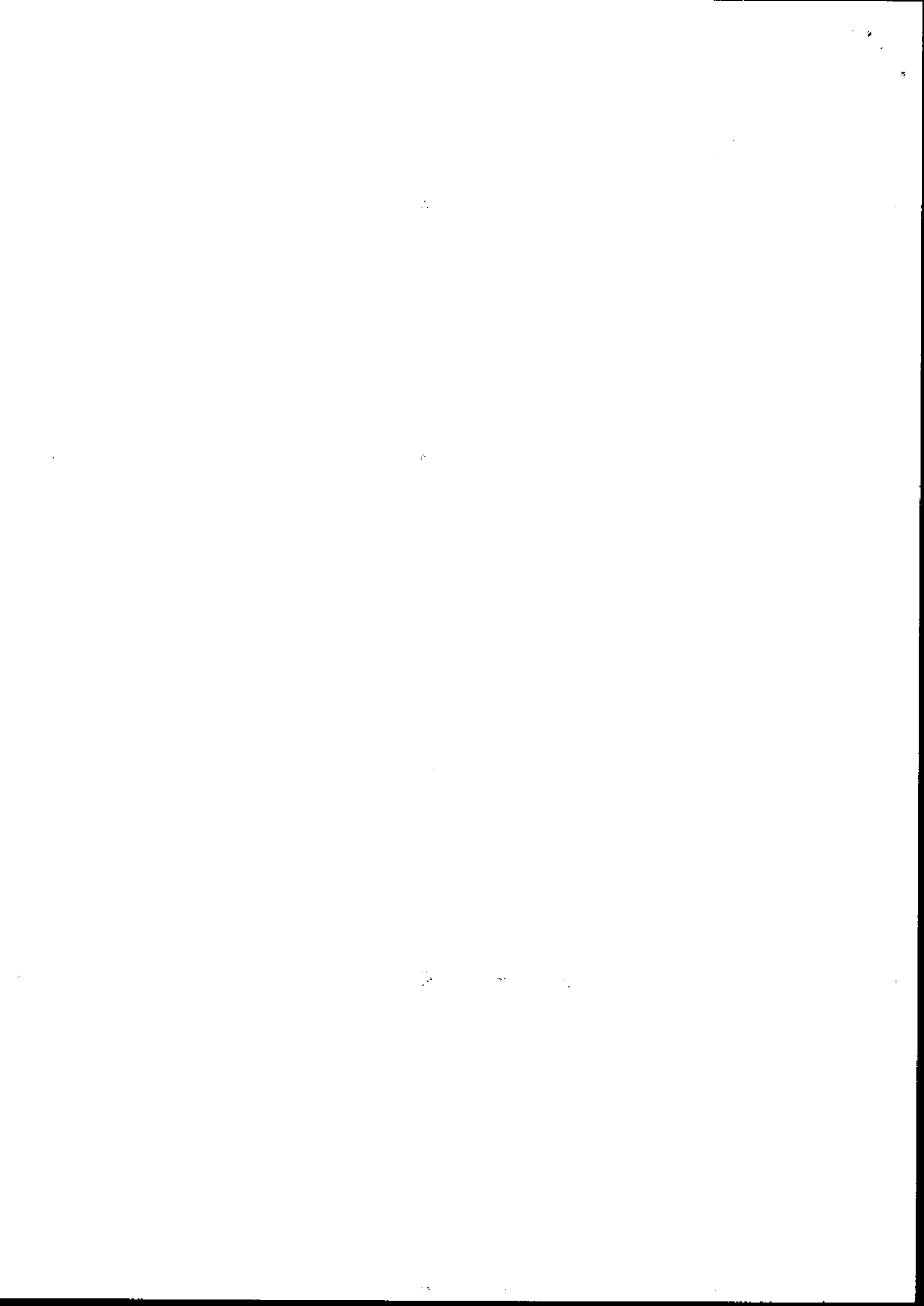
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 SOUTH EAST TEAM

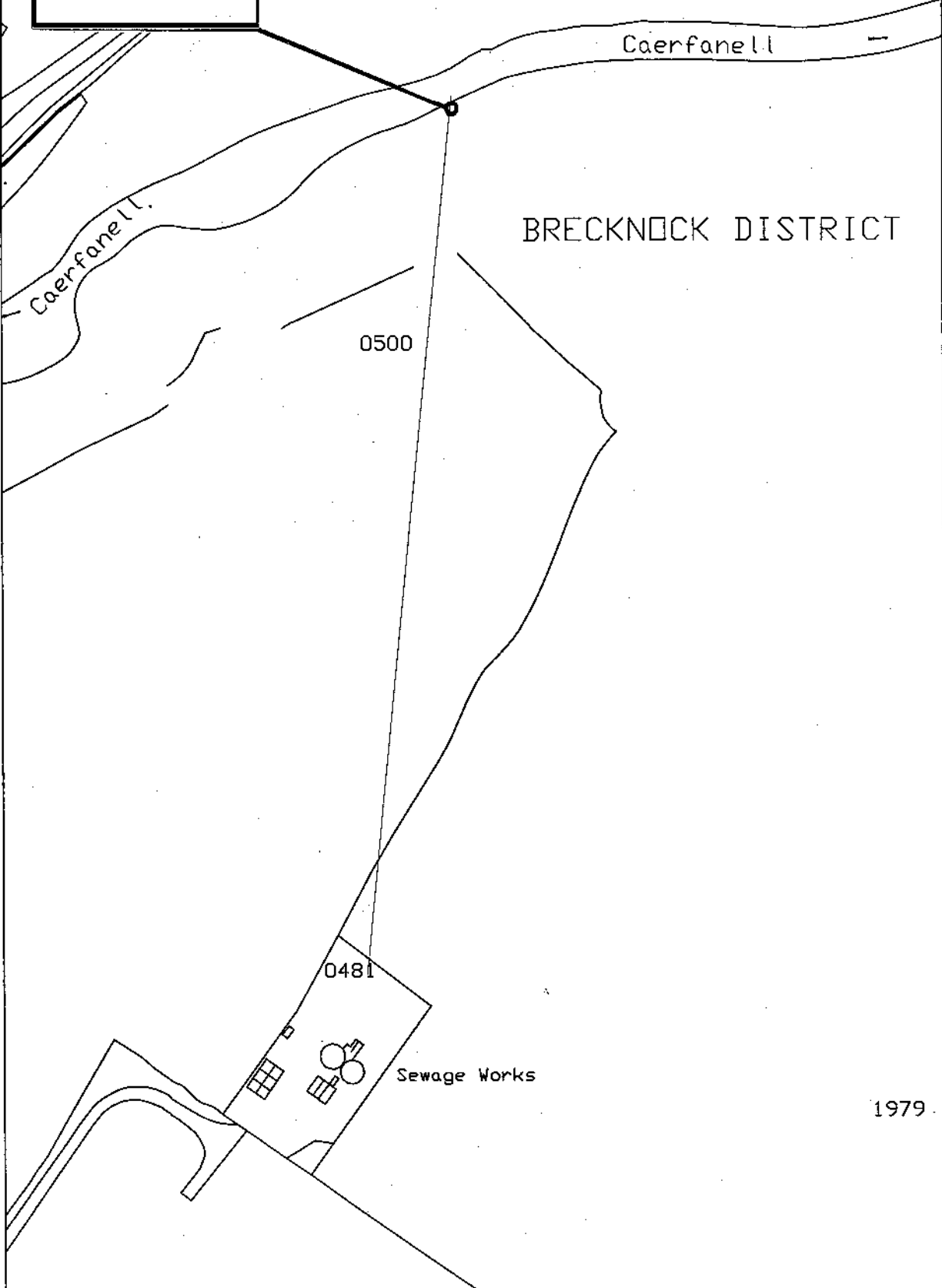
SITE PLAN
 TALLYBONT WWTP

DATE: 15/12/98
 DRAWING NUMBER: 151298-00-3101
 SHEET: A1 OF 8





Water Resources Act
 Effluent Discharge Point
 SO 12069 23056



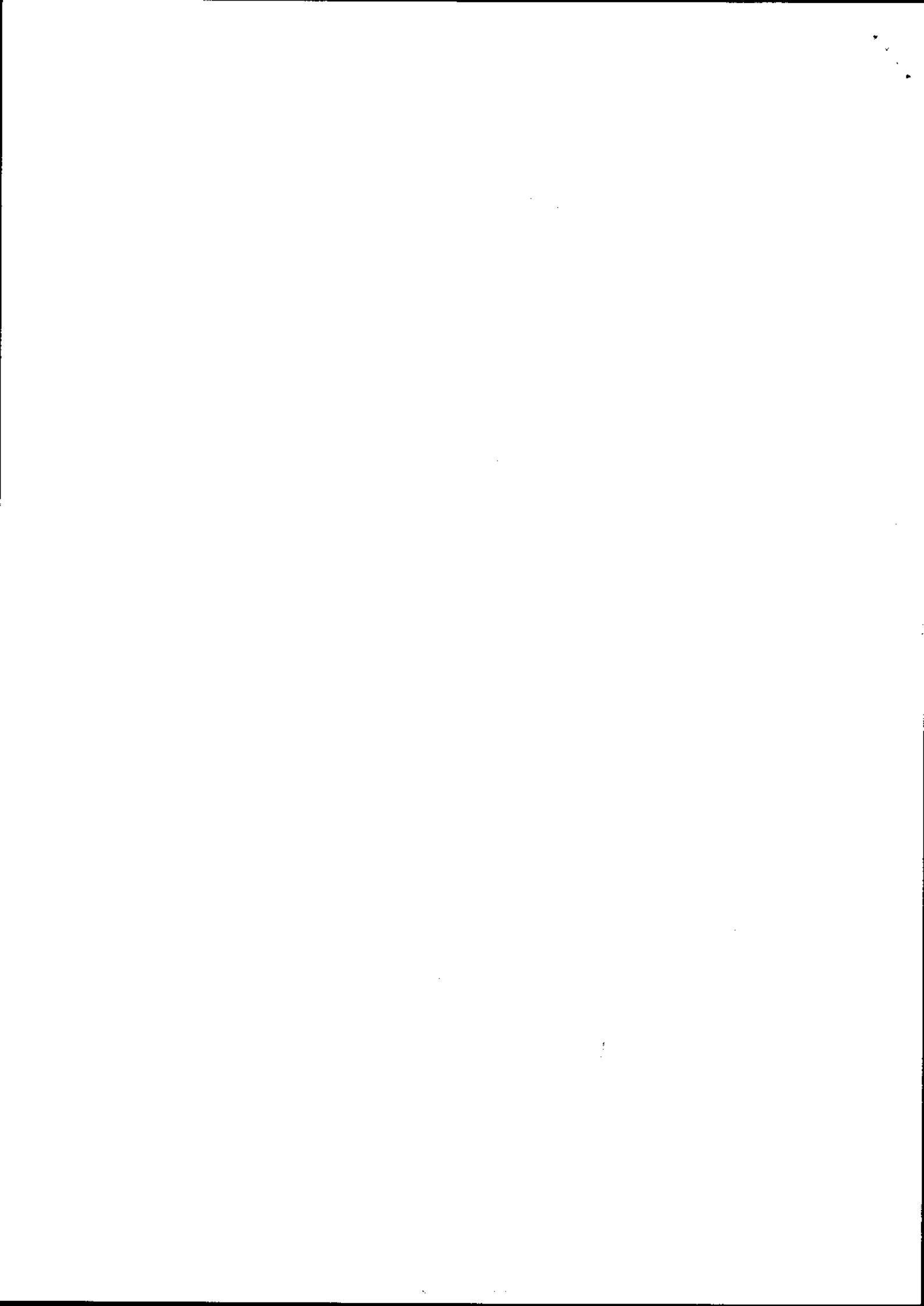
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A4		





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Heol Victoria
Tre Gŵyr
Abertawe SA4 3AB

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Victoria Road
Gowerton
Swansea SA4 3AB

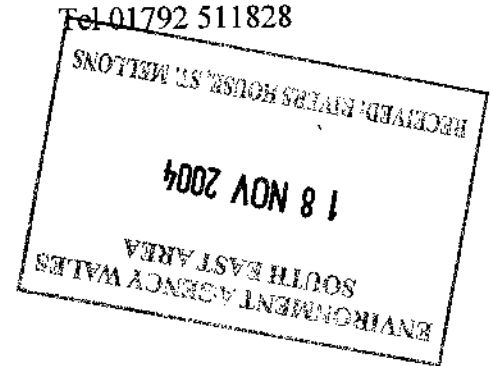
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Safle gwe: www.dwrcymru.com

Fax: +44 (0)1792 872 604
Web site: www.dwrcymru.com

Gary Inight
Customer Contact Dept
Environment Agency Wales
Rivers House
St Mellons
Cardiff
CF3 0LT

17th November 2004

Tel 01792 511828



Dear Gary,

Talybont STW Consent Applications

Please find enclosed applications for a variation of the final effluent (AD0001701) and settled storm (AD0001702) consents for Talybont STW.

I enclose cheque (no. 4594) for £1486.

Yours sincerely,

Dr Lewis Keil
Wastewater Scientist

