

CONSENT NO.

CM0001201



ASiantaeth yr
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

WATER RESOURCES ACT 1991

SECTION 88 - SCHEDULE 10

(AS AMENDED BY THE ENVIRONMENT ACT 1995)

VARIATION OF CONSENT TO DISCHARGE

TO: Environment Quality Scientist
Dŵr Cymru Cyf.
Pentwyn Road
Nelson
Treharris
Mid Glamorgan CF46 6LY



CM0001201_2006_03_07

In pursuance of an application by the consent holder
ENVIRONMENT AGENCY ("The Agency")

exercising its powers under the Water
Resources Act 1991 **HEREBY VARIES ITS CONSENT** to the making of a discharge **OF**
SEWAGE EFFLUENT as follows:

Secondary treated sewage effluent incorporating the requirements of the Urban Waste Water
Treatment Regulations (UWWTR) 1994

with respect to Consent No. CM0001201 issued on the 27th April 1995

FROM: LLANARMON YN IAL WASTEWATER TREATMENT WORKS

AT: LLANARMON YN IAL, MOLD, DENBIGHSHIRE CH7 4QY

TO: RIVER ALYN

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

Secondary Treated Sewage Effluent

Schedule No. CM0001201 01

UWWT Regulations 1994

Schedule No. CM0001201 01/U

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 December 2004

This variation of consent takes effect on the 31st day of March 2005

Signed *I. Williams*

IWAN WILLIAMS

Regulatory Water Quality Team Leader

Asiantaeth yr Amgylchedd Cymru
Ffordd Caer, Bwcle, Sir Fflint CH7 3AJ. Ffôn 08708 506506, Ffacs 01244 550144

Environment Agency Wales
Chester Road, Buckley, Flintshire CH7 3AJ. Tel 08708 506506, Fax 01244 550144





CONSENT NO.	CM0001201
SCHEDULE NO.	CM0001201 01
DATE ISSUED	16th December 2004

CONDITIONS OF CONSENT TO DISCHARGE

Secondary Treated Sewage Effluent ("the Discharge")

**FROM: Llanarmon yn Ial Wastewater Treatment Works, Llanarmon yn Ial,
Mold, Denbighshire CH7 4QY**

NATURE

1. The Discharge shall consist solely of secondary treated sewage effluent.

LOCATION

2. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 150 millimetre diameter pipe;
 - (b) discharging to the River Alyn;
 - (c) at National Grid Reference SJ 19022 55938;
 - (d) shown marked 'Consent Point' on Plan CM0001201 attached as Annex 2.

SAMPLE POINT

3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SJ 19020 55938, as shown marked 'Discharge Sample point' on the Plan CM0001201 attached as Annex 2 or some other point as agreed in writing with the Agency, so that a representative spot 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 being discharged into controlled waters.





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VOLUME

4. The volume of the Discharge shall not exceed 295 cubic metres per day.
5. The Dry Weather Flow of the Discharge shall not exceed 64.5 cubic metres per day.

For the purpose of this condition Dry Weather Flow shall mean the average daily flow to the treatment works during seven consecutive days without rain (excluding a period which includes public holidays) following seven days during which the rainfall did not exceed 0.25 millimetres on any one day.

6. The rate of discharge shall not exceed 3.4 litres per second.

FLOW MEASUREMENT

7. A continuous flow monitoring and recording system, to a specification provided by the Agency, with on-site visual display from which readings can be readily obtained by the Agency, shall be provided and operated to record the daily volume and instantaneous flow of sewage through the treatment works.
8. As soon as practicable after completion of the flow system installation the Consent Holder shall employ an independent expert to certify that the installation complies with the Agency's specification. The Consent Holder shall satisfy himself as to the professional competence of the expert. A copy of the certifier's report shall be provided to the Agency when it is available.
9. Records of the flow readings shall be maintained by the Consent Holder and shall be provided to the Agency when requested, in a format specified by the Agency.
10. The Consent Holder shall produce and maintain a quality control manual, approved by the independent expert and to the satisfaction of the Agency, specifying procedures for the calibration, operation and maintenance of the flow monitoring system. The flow system shall be calibrated, operated and maintained by the Consent Holder in accordance with the provisions of the manual. The Consent Holder shall keep a record of these procedures available for inspection by the Agency and provide a copy to the Agency on request.



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Agency Wales**

11. The Consent Holder shall record all failures of the continuous flow system and any other breaks in the flow record. The reasons for these failures and breaks shall be recorded and all steps taken to prevent a re-occurrence. The Consent Holder shall ensure that as far as possible the recorder remains fully operational at all times. Any failures shall be remedied as soon as possible.
12. Flows of sewage through the treatment works shall be measured at the inlet works NGR SJ 19017 55939, or such other point(s) as agreed by the Agency.

COMPOSITION

13. (a) Subject to paragraph (b) below, the Discharge shall not contain more than;
 - (i) 40 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20⁰ C with nitrification suppressed by the addition of allyl-thiourea)
 - (ii) 60 milligrammes per litre of suspended solids (measured after drying at 105⁰C);
 - (iii) 15 milligrammes per litre of ammoniacal nitrogen (expressed as N)
- (b) The limit for any of the relevant parameters set out in paragraph (a) above may be exceeded where, in any series of samples of the Discharge taken at regular but randomised intervals in any period of twelve consecutive months as listed in Column 1 of the table at Annex 1 to this consent, no more than the relevant number of samples, as listed in Column 2 of the said table, exceed the applicable limit for that relevant parameter.





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WORKS OPERATION

14. 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.

This condition does not require -

- (a) any higher standard to be achieved in relation to any characteristic of the discharge which is specifically regulated by Condition 13 than is required by that condition;
- (b) any alteration of the works or a change in the type of treatment used.

UNUSUAL WEATHER

15. (a) No sample of the discharge, taken at a time when unusual weather conditions are adversely affecting the operation of the sewage treatment works, shall be taken into account in deciding whether or not conditions 13 and 14 of this consent schedule have been complied with.
- (b) For the purpose of this condition "unusual weather conditions" shall include:
- (i) low ambient temperatures as evidenced by effluent temperatures of 5°C or less, or by the freezing of mechanical equipment in the works;
 - (ii) significant snow deposits;
 - (iii) tidal or fluvial flooding;
 - (iv) weather conditions causing unforeseen loss of power supply to the sewage treatment which could not be ameliorated by the reasonable provision and operation of standby generation facilities.

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- (c) On any occasion where unusual weather conditions adversely affect the operation of the sewage treatment works, the Consent Holder shall use its best endeavours to mitigate that adverse affect.
- (d) For a sample of the discharge to be considered for the purposes of (a) above, the Consent Holder shall notify the Agency by telefax or telephone as soon as unusual weather conditions are known to have adversely affected operations and shall confirm the circumstances in writing as soon as possible thereafter (and in any event within 14 days of the occurrence of such conditions). That notification shall include a full description of the unusual weather conditions and their impact on the operation of the works.

RECORDING AND REPORTING

- 16. (a) The Consent Holder 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 Consent Holder shall supply the Agency with a written report on the maintenance and all non-routine actions that may have adversely affected effluent quality.

SUBSTANTIAL CHANGE

- 17. (a) 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.
- (b) A discharge of trade effluent into the works is new if -
 - (i) 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 consent; or
 - (ii) it is made by a third party and the discharge is authorised on or after that date.



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- (c) A discharge of trade effluent into the works is altered if -
- (i) it is made by the sewerage undertaker and its composition or quantity changes significantly on or after date of variation of this consent ; or
 - (ii) it is made by a third party and the alteration of the discharge is authorised on or after that date.
- (d) 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 characteristics of the discharge which are specifically regulated by condition 13 of this consent schedule but it may be significant if it is caused by a change in some other characteristic of the discharge.
- (e) For the purposes of this condition “trade effluent” means -
- (i) any discharge by the sewerage undertaker other than
 - (1) domestic sewage from premises connected directly or indirectly to the works; or
 - (2) surface water run-off;
 - (ii) any discharge by a third party which is authorised under Chapter III of Part IV of the Water Industry Act 1991 or which is only accepted as a result of a contract with the sewerage undertaker.

UNAUTHORISED DISCHARGE

18. (a) 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.
- (b) 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.
- (c) 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.



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SCHEDULE NO.	CM0001201 01



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START DATE

19. Until discharge is permitted under the terms of this consent, the quality of the effluent from Llanarmon yn Ial Sewage Treatment Works shall be controlled under the terms of the consent issued on 27th April 1995
There shall be no discharge under the terms of this consent until the 31st March 2005 or the end of commissioning of the works which ever is the sooner. The Consent Holder shall give the Agency at least 28 days written notice before making the discharge.





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AMGylchedd Cymru
ENVIRONMENT
AGENCY WALES

CONSENT NO.	CM0001201
SCHEDULE NO.	CM0001201 01/U
DATE ISSUED	16 th December 2004

CONDITIONS OF CONSENT TO DISCHARGE

Urban Waste Water Treatment Regulations 1994 ("the Discharge")

**FROM: Llanarmon yn Ial Wastewater Treatment Works, Llanarmon yn Ial,
Mold, Denbighshire CH7 4QY**

- U0** (a) The Consent Holder shall comply with the Urban Waste Water Treatment (England and Wales) Regulations 1994 ("the Regulations").
- (b) For the purpose of condition U1 below, interpretations and references to a numbered regulation or Schedule shall have the meaning as in the Regulations, unless otherwise indicated.
- U1** (a) The Discharge derives from an agglomeration with a population equivalent of less than 2,000 discharging to freshwaters.
- (b) The Consent Holder shall inform the Agency in writing of any change, or proposed change, to the population equivalent such as would make a material change to the application of the Regulations and shall, on request, inform the Agency in writing of the actual population equivalent.
- (c) The Discharge shall be subject to Regulation 5(7) and satisfy the requirements of Regulation 5(8)(a).



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AGENCY WALES

ANNEX 1

TABLE

<u>Column 1</u>	<u>Column 2</u>
Number of samples taken in any period of 12 months	Maximum number of samples permitted to exceed limit for given determinand
4-7	1
8-16	2
17-28	3
29-40	4
41-53	5
54-67	6
68-81	7
82-95	8
96-110	9
111-125	10
126-140	11
141-155	12
156-171	13
172-187	14
188-203	15
204-219	16
220-235	17
236-251	18
252-268	19
269-284	20
285-300	21
301-317	22
318-334	23
335-350	24
351-365	25



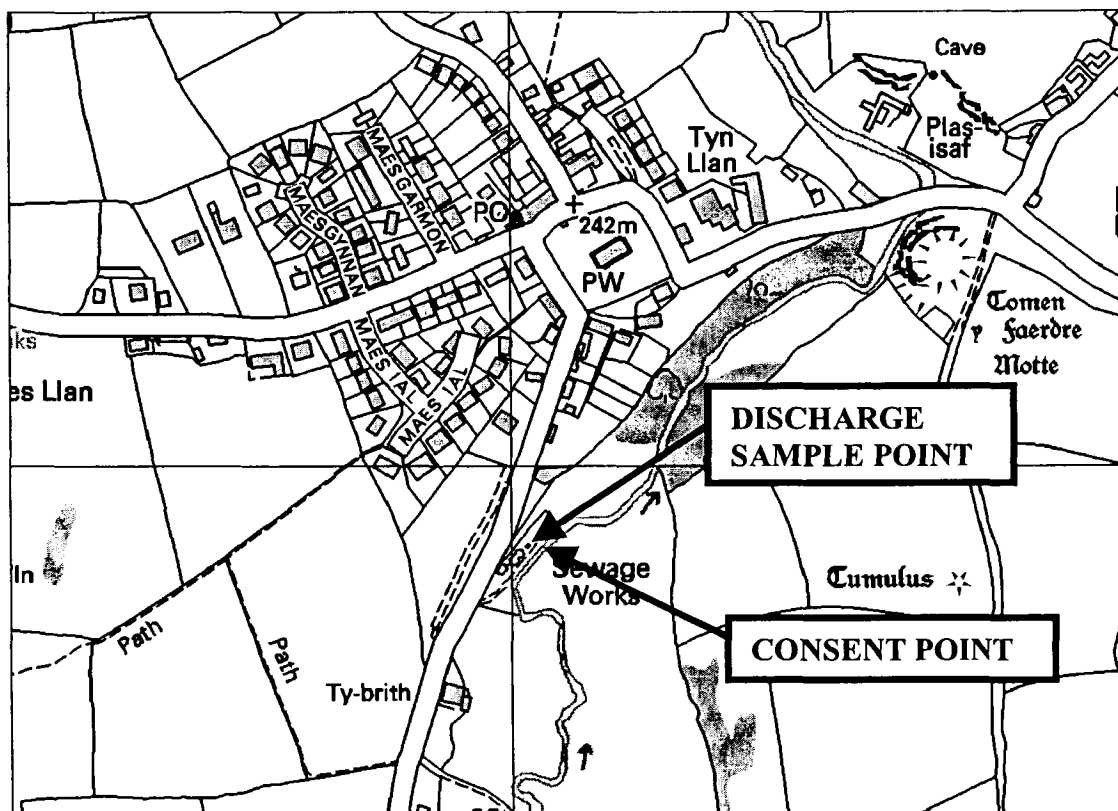
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ANNEX 2

PLAN No CM0001201



NOT TO SCALE





ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Eich cyf/Your ref.
Ein cyf/Our ref. IH/RP/CM0001201/CM0001202
Enquiries Ruth Prichard
Dyddiad/Date: 9th December 2004

Tony Andrews
Environment Quality Scientist
Dwr Cymru Cyf
Pentwyn Road
Nelson
Treharris
Mid Glamorgan
CF46 6LY

COPY

F.A.O Jan Edwards

Dear Jan Edwards,

RE: WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995) APPLICATION FOR VARIATION OF CONSENT TO DISCHARGE NO CM0001201

Further to your application for variation of consent of the Agency to discharge 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 storm and sewage effluent from Llanarmon Yn Ial Wastewater Treatment works, Llanarmon Yn Ial, Mold, Denbighshire, CH7 4QY.

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, 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.

If you are not satisfied with the new conditions of the consent you may appeal against the decision to the 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 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
Ffordd Caer, Bwcle, Sir y Fflint CH7 3AJ
Ffon 08708 506 506, Ffacs 01244 550144

Environment Agency Wales
Chester Road, Buckley, Flintshire CH7 3AJ
Tel 08708 506 506, Fax 01244 550144



If you have any queries regarding the enforcement of this consent, please do not hesitate to contact Iwan Williams, Regulatory Water Quality Team Leader, Environment Agency, Chester Road, Buckley, Flintshire, CH7 3AJ.

Yours sincerely,

Kelvin Graham
Team Leader Customer Contact and Authorisations
Enc.

Asiantaeth yr Amgylchedd Cymru
Ffordd Caer, Bwcle, Sir y Fflint CH7 3AJ
Ffon 08708 506 506, Ffacs 01244 550144

Environment Agency Wales
Chester Road, Buckley, Flintshire CH7 3AJ
Tel 08708 506 506, Fax 01244 550144

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

Part A

**To : DWR CYMRU CYFYNGEDIG
PENTWYN ROAD
NELSON
TREHARRIS
MID GLAMORGAN CF46 6LY**

NB: For a body corporate the job title is a point of

Holder Start Date : 16 December 2004

The Environment Agency ("the Agency") hereby confirm that the above named person (or organisation) is a / the registered Holder of the Consent : CM0001202 Consent Issued : 16 December 2004

**Nature of Discharge(s) SSORB SEWAGE EFF/STORM EFF/RAINFALL/SCREENED SEWAGE
at SJ1899955912 LLANARMON-YN-IAL STW**

Note : This certificate should be kept with the consent document for future reference. If you transfer responsibility for the discharge to somebody else, you must pass the consent to them and tell the Agency within 21 days. Responsibility for the consent cannot be disclaimed by the Holder but the registration of Holder may be transferred to a successor. To do this, please complete the form below (Part B), 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 will 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, quoting the Consent Reference.

cut here

Part B

Please complete in block capitals or type

To : Water Resources Act 1991 : Notice of transfer of Consent to Discharge

Consent Reference : CM0001202

Name : DWR CYMRU CYFYNGEDIG

Consent Issued : 16 December 2004

Address : PENTWYN ROAD

NELSON

TREHARRIS

MID GLAMORGAN CF46 6LY

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*

Name(s) of the new Holder(s) :

Post Code :

Date of Transfer to new

**Signed
Name (block)**

**Dated
Position (if appropriate)**

(to be completed when signing on behalf of corporate)

Deddf Adnoddau Dwr 1991 ^

fel y'i diwygiwyd gan Ddeddf yr Amgylchedd 1995

Caniatâd Gollwng

Tystysgrif Daliwr

Rhan A

At : DWR CYMRU CYFYNGEDIG
PENTWYN ROAD
NELSON
Treharris
MID GLAMORGAN CF46 6LY

DS: I gorfforaeth gorfforedig mae teitl y swydd yn bwynt

contact.

Dyddiad Cychwyn y

Daliwr : 16 Rhagfyr 2004

Mae Asiantaeth yr Amgylchedd ("yr Asiantaeth") yn cadarnhau drwy hyn mai / bod y sawl (neu sefydliad) a enwyd uchod yw / yn ddaliwr cofrestredig y caniatâd : CM0001202 Cyhoeddwyd y Caniatâd : 16 Rhagfyr 2004

Natur y Gollyngiad(au) : SSORB

yn SJ1899955912 LLANARMON-YN-IAL STW

Noder : Dylid cadw'r dystysgrif hon gyda'r ddogfen ganiatâd i gyfeirio ati yn y dyfodol. Os byddwch yn trosglwyddo cyfrifoldeb am y gollyngiad i rywun arall, rhaid i chi drosglwyddo'r caniatâd iddo ef neu hi a dweud wrth yr Asiantaeth cyn pen 21 diwrnod. Ni all y Daliwr wadu cyfrifoldeb am y caniatâd, ond gall cofrestriad y Daliwr gael ei drosglwyddo i olynydd. I wneud hynny, byddwch gystal â llenwi'r ffurflen isod (Rhan B), yna'i dychwelyd i'r cyfeiriad a nodir. Os fethwch â throsglwyddo'r caniatâd, hyd yn oed os nad ydych ar y safle mwyach, gallwch gael eich erlyn am achosi llygredd. Os trosglwyddwch y caniatâd ond heb ddweud wrthym, yna byddwch yn cyflawni trosedd. Os bydd gennych unrhyw ymholiadau a fydddech gystal â chysylltu â'ch swyddfa Asiantaeth yr Amgylchedd lleol, gan ddyfynnu Cyfeirnod y Caniatâd.

torrwch yma

Rhan B

Llenwch mewn priflythrennau bras neu deipio

At : Deddf Adnoddau Dwr 1991 : Hysbysiad am drosglwyddo Caniatâd Gollwng ^

Cyfeirnod y Caniatâd : CM0001202

Enw : DWR CYMRU CYFYNGEDIG

Cyhoeddwyd y 16 Rhagfyr 2004

Cyfeiriad : PENTWYN ROAD

Caniatâd :

NELSON

TREHARRIS

MID GLAMORGAN CF46 6LY

Yr wyf fi / Yr ydym ni* drwy hyn yn hysbysu'r Asiantaeth nad fi / ni mwyach yw* Daliwr / Deiliaid y caniatâd uchod a fydd y
cael / cafodd ei drosglwyddo i
yn appropriate* dileer fel

Enw(au) y Daliwr / Deiliaid newydd :

Côd Post :

Dyddiad Trosglwyddo i'r Daliwr / Deiliaid Holder(s) :

Llofnodwyd :

:Dyddiedig :

Enw (priflythrennau bras)

capitals) : : Swydd (os yn briodol)

bodies) (i'w lenwi pan yn llofnodi ar ran corfforaethau



ASiantaeth Yr
Amgylchedd Cymru
Environment
Agency Wales

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

UWWTD

[URBAN WASTE WATER TREATMENT DIRECTIVE 1991]

FILE NOTE

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

CONSENT REF :	CM0001201	VERSION :	5		
OPERATOR :	DWR CYMRU CYFYNGEDIG				
DISCHARGE SITE :	LLANARMON-YN-IAL STW				
EXTANT CONSENT ISSUE DATE :	27/04/1995	EFFECTIVE DATE :	27/04/1995		
DWF (m ³ /day) :	83.5	MAX DAILY VOL. (m ³ /day) :	199	RATE (l/s) :	2.3

Records held on WIMS show LLANARMON-YN-IAL STW (CM0001201) to be extant under version 5 issued 27/04/1995 with numeric consent conditions, effective 27/04/1995. The works is currently consented to discharge a max daily volume of 199m³/day effluent to the RIVER ALYN at NGR SJ1902055930.

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

The discharge of 199m³/day effluent to 'RIVER ALYN', for the purposes of this review, is described as 'secondary treated effluent to surface waters'. This treatment / receiving water combination has been assessed* as APPROPRIATE under the UWWTD review. This consent is reviewed as APPROPRIATE under UWWTD as of 01/09/2005.

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

Iwan Williams
Regulatory Team Leader (Water Quality)



ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

CONSENT NO.	CM0001201
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ENVIRONMENT AGENCY
WATER RESOURCES ACT 1991

(AS AMENDED BY ENVIRONMENT ACT 1995)

NOTICE OF MODIFICATION OF CONSENT TO DISCHARGE

TO: Environment Quality Scientist
Dŵr Cymru Cyf.
Pentwyn Road
Nelson
Treharris
Mid Glamorgan CF46 6LY

WHEREAS the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) **VARIED ITS CONSENT** to the making of a discharge **SEWAGE EFFLUENT** on the 16th day of December 2004

FROM Llanarmon yn Ial Wastewater Treatment Works

the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) hereby **GIVES NOTICE** that **CONSENT** CM0001201 is hereby modified as follows:

SEWAGE EFFLUENT

FROM: Llanarmon yn Ial Wastewater Treatment Works
AT: Llanarmon yn Ial, Mold, Denbighshire CH7 4QY
TO: River Alyn

The conditions of Schedule CM0001201 01 issued on 16th December 2004 are modified as detailed in this notice.

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 modifications made by this notice, without the agreement in writing of the Consent Holder, during a period of 4 years from the date this notice is served.

Dated this 17th day of February 2005

Signed 

IWAN WILLIAMS
Regulatory Team Leader (Water Quality)





ASiantaeth Yr
Amgylchedd Cymru
ENVIRONMENT
AGENCY WALES

CONSENT NO.	CM0001201
SCHEDULE NO.	CM0001201 01
DATED	17 th February 2005

CONDITIONS TO BE MODIFIED

Condition 19 to be modified to read:

19. Until discharge is permitted under the terms of this consent, the quality of the effluent from Llanarmon yn Ial Sewage Treatment Works shall be controlled under the terms of the consent issued on 27th April 1995
There shall be no discharge under the terms of this consent until the 31st December 2005 or the end of commissioning of the works which ever is the sooner. The Consent Holder shall give the Agency at least 28 days written notice before making the discharge.

OTHER CONDITIONS OF THE CONSENT

All other conditions of the consent remain in force. Consent CM0001201 is updated accordingly.





ASiantaeth yr
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Ein cyf/Our ref. IH/RP/CM0001201

Dyddiad/Date: 18th February 2005

Tony Andrews
Environment Quality Scientist
Dwr Cymru Cyf
Pentwyn Road
Nelson
Treharris
Id Glamorgan
CF46 6LY

F.A.O Jan Edwards

Dear Jan Edwards,

RE: WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995) MODIFICATION OF CONSENT TO DISCHARGE NO. CM0001201

Further to our recent correspondence concerning the consent to discharge sewage effluent from Llanarmon yn Ial Wastewater Treatment Works, I enclose the Agency's formal notice of the modifications made to the conditions of the consent.

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. The 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.

If you are not satisfied with the new conditions of the consent you may appeal against the decision to The 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 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
Ffordd Caer, Bwele, Sir y Fflint CH7 3AJ
Ffon 08708 506 506, Ffacs 01244 550144

Environment Agency Wales
Chester Road, Buckley, Flintshire CH7 3AJ
Tel 08708 506 506, Fax 01244 550144



If you have any queries regarding the enforcement of this consent, please do not hesitate to contact Iwan Williams, Team Leader Regulatory Water Quality, Environment Agency Wales, Chester Road, Buckley, Flintshire, CH7 3AJ.

Yours sincerely,

Kelvin Graham
Team Leader Customer Contact & Authorisations

Asiantaeth yr Amgylchedd Cymru
Ffordd Caer, Bwcle, Sir y Fflint CH7 3AJ
Ffon 01244 550124 Ffacs 01244 550144

Environment Agency Wales
Chester Road, Buckley, Flintshire CH7 3AJ
Tel 01244 550124 Fax 01244 550144

Water Resources Act 1991

as amended by the Environment Act 1995



ASiantaeth Yr
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Consents to Discharge

Certificate of Holder

Part A

To : **DWR CYMRU CYFYNGEDIG**
PENTWYN ROAD
NELSON
TREHARRIS
MID GLAMORGAN CF46 6LY

NB: For a body corporate the job title is a point of contact.

Holder Start Date : 23 February 2005

The Environment Agency ("the Agency") hereby confirm that the above named person (or organisation) is a / the registered Holder of the Consent : CM0001201 Consent Issued : 17 February 2005

Nature of Discharge(s) STEC Sewage effluent

at SJ1902255938 LLANARMON-YN-IAL STW

Note : This certificate should be kept with the consent document for future reference. If you transfer responsibility for the discharge to somebody else, you must pass the consent to them and tell the Agency within 21 days. Responsibility for the consent cannot be disclaimed by the Holder but the registration of Holder may be transferred to a successor. To do this, please complete the form below (Part B), 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 will 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, quoting the Consent Reference.

- - - - - cut here - - - - -

Part B

Please complete in block capitals or type

To : **Water Resources Act 1991 : Notice of transfer of Consent to Discharge**

Consent Reference : CM0001201

Name : DWR CYMRU CYFYNGEDIG

Consent Issued : 17 February 2005

Address : PENTWYN ROAD

NELSON

TREHARRIS

MID GLAMORGAN CF46 6LY

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 the new Holder(s) :

Post Code :

Date of Transfer to new Holder(s)

Signed :

Dated :

Name (block capitals) :

Position (if appropriate) :

(to be completed when signing on behalf of corporate bodies)



Caniatâd Gollwng

Tystysgrif Daliwr

Rhan A

**At : DWR CYMRU CYFYNGEDIG
PENTWYN ROAD
NELSON
Treharris
MID GLAMORGAN CF46 6LY**

DS: I gorfforaeth gorfforedig mae teitl y swydd yn bwynt cysylltu.

Dyddiad Cychwyn y Daliwr : 23 Chwefror 2005

Mae Asiantaeth yr Amgylchedd ("yr Asiantaeth") yn cadarnhau drwy hyn mai / bod y sawl (neu sefydliad) a enwyd uchod yw / yn ddaliwr cofrestredig y caniatâd : CM0001201 Cyhoeddwyd y Caniatâd : 17 Chwefror 2005

**Natur y Gollyngiad(au) : STEC Carthffrwd
yn SJ1902255938 LLANARMON-YN-IAL STW**

Noder : Dylid cadw'r dystysgrif hon gyda'r ddogfen ganiatâd i gyfeirio ati yn y dyfodol. Os byddwch yn trosglwyddo cyfrifoldeb am y gollyngiad i rywun arall, rhaid i chi drosglwyddo'r caniatâd iddo ef neu hi a dweud wrth yr Asiantaeth cyn pen 21 diwrnod. Ni all y Daliwr wadu cyfrifoldeb am y caniatâd, ond gall cofrestriad y Daliwr gael ei drosglwyddo i olynnydd. I wneud hynny, byddwch gystal â llenwi'r ffurflen isod (Rhan B), yna'i dychwelyd i'r cyfeiriad a nodir. Os fethwch â throsglwyddo'r caniatâd, hyd yn oed os nad ydych ar y safle mwyach, gallwch gael eich erlyn am achosi llygredd. Os trosglwyddwch y caniatâd ond heb ddweud wrthym, yna byddwch yn cyflawni trosedd. Os bydd gennych unrhyw ymholiadau a fydddech gystal â chysylltu â'ch swyddfa Asiantaeth yr Amgylchedd lleol, gan ddyfynnu Cyfeirnod y Caniatâd.

Rhan B

Llenwch mewn priflythrennau bras neu deipio

At : Deddf Adnoddau Dŵr 1991 : Hysbysiad am drosglwyddo Caniatâd Gollwng

Cyfeirnod y Caniatâd : CM0001201

Enw : DWR CYMRU CYFYNGEDIG

Cyhoeddwyd y 17 Chwefror 2005

Cyfeiriad : PENTWYN ROAD

Caniatâd :

NELSON

TREHARRIS

MID GLAMORGAN CF46 6LY

Yr wyf fi / Yr ydym ni* drwy hyn yn hysbysu'r Asiantaeth nad fi / ni mwyach yw* Daliwr / Deiliaid y caniatâd uchod a fydd yn cael / cafodd ei drosglwyddo i

*** dilêer fel yn briodol**

Enw(au) y Daliwr / Deiliaid newydd :

Côd Post :

Dyddiad Trosglwyddo i'r Daliwr / Deiliaid newydd :

Llofnodwyd :

Dyddiedig :

Enw (priflythrennau bras) :

Swydd (os yn briodol) :

(i'w llenwi pan yn llofnodi ar ran corfforaethau corfforedig)



ASiantaeth yr
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Eich cyf/Your ref.

Ein cyf/Our ref. DR/RP/CM0001201/CM0001202

Dyddiad/Date: 20th October 2004

Paul Day
CCW
Glan y Nant,
Unit 19,
Mold Business Park,
Wrexham Road,
Mold,
Flintshire,
CH7 1XP.

COPY

Dear Mr Day,

WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995): FORMAL CONSULTATION. APPLICATION FOR CONSENT TO DISCHARGE SEWAGE EFFLUENT BY DWR CYMRU CYF FROM LLANARMON YN IAL WASTEWATER TREATMENT WORKS, LLANARMON YN IAL, NR MOLD, FLINTSHIRE
APPLICATION NO: CM0001201/CM0001202

I append a copy of the application for consent to discharge received from Dwr Cymru Cyf and Appendix 11. If you have any comments regarding this application could you please respond by 3rd November 2004.

Yours sincerely

Kelvin Graham
Team Leader Customer Contact & Authorisations

Please ask for Ruth Prichard ext 4502

Asiantaeth yr Amgylchedd Cymru
Ffordd Caer, Bwcle, Sir y Fflint CH7 3AJ
Ffon 08708 506 506 Ffacs 01244 550144

Environment Agency Wales
Chester Road, Buckley, Flintshire CH7 3AJ
Tel 08708 506 506 Fax 01244 550144

COPY

APPENDIX 11**Form HR01: Proforma for new applications within Stage 2 criteria.****ENVIRONMENT
AGENCY*****Environment Agency Record of Assessment of Likely Significant Effect On A European Site (Stage 2)***

The new application for a *<please fill in details>* detailed below is within the Stage 1 criteria of *<please fill in details>*, and in order to progress the application a Stage 2 assessment and consultation with EN/CCW is required.

PART A

To be completed by relevant technical/project officer in consultation with Conservation/Ecology section and EN/CCW

1. Type of permission/activity:	Water Resources Act (1991) (as amended by Environment Act 1995) consent to discharge
2. Agency reference no:	CM0001201
3. National Grid reference:	SJ 19022 55938
4. Site reference:	Llanarmon yn Ial Wastwater Treatment Works Llanarmon yn Ial Nr Mold Denbighshire
5. Brief description of proposal:	Application to discharge up to 294.9m ³ /day of biologically treated sewage effluent to the River Alyn.
6. European site name(s) and status:	Alyn Valley Woods cSAC: UK0030078 River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid cSAC: UK0030252 Dee Estuary SPA: UK9013011 Dee Estuary cSAC: UK9013011 River Dee RAMSAR features: 7UK020

<p>7. List of interest features:</p>	<p>1.1 Fens and wet habitats (not sensitive to acidification)</p> <p>1.3 Riverine habitats and running waters</p> <p>1.6 Dry woodlands and scrub</p> <p>1.7 Dry Grassland</p> <p>1.10 Coastal Habitats</p> <p>1.11 Coastal habitats (sensitive to abstraction)</p> <p>1.12 Estuarine and intertidal habitats</p> <p>2.1 Vascular plants of aquatic habitats</p> <p>2.4 Mosses and liverworts</p> <p>2.5 Anadromous fish</p> <p>2.6 Non-migratory fish and invertebrates of rivers</p> <p>2.9 Mammals of riverine habitats</p> <p>2.10 Amphibia</p> <p>3.4 Birds of lowland wet grasslands</p> <p>3.6 Birds of lowland freshwaters and their margins</p> <p>3.7 Birds of farmland</p> <p>3.8 Birds of coastal habitats</p> <p>3.9 Birds of estuarine habitats</p> <p>3.10 Birds of open sea and offshore rocks</p>
<p>8. Is the proposal directly connected with or necessary to the management of the site for nature conservation?</p>	<p>No</p>
<p>9. What potential hazards are likely to affect the interest features? (Refer to relevant sensitivity matrix and only include those to which the interest features are sensitive). Are the interest features potentially exposed to the hazard?</p>	

Sensitive Interest Feature:	Potential hazard:	Potential exposure to hazard and mechanism of effect/impact if known:
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<u>Alyn Valley Woods cSAC features:</u>		
1.1 Fens and wet habitats (not sensitive to acidification) <ul style="list-style-type: none"> Residual alluvial forests 	A, b, c, e, f, h	
1.6 Dry woodlands and scrub; <ul style="list-style-type: none"> <i>Tilo-Acerion</i> ravine woodlands 	N/A	
1.7 Dry Grassland: <ul style="list-style-type: none"> Semi-natural dry grasslands and scrubland facies on calcareous substrates (<i>Festuco-Brometalia</i>) 	N/A	
<u>River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid cSAC features:</u>		
1.3 Riverine habitats and running waters: <ul style="list-style-type: none"> Floating vegetation of <i>Ranunculus</i> of plain and submountainous rivers 	A, b, c, d, e, f, g, h	
2.1 Vascular plants of aquatic habitats: <ul style="list-style-type: none"> Floating water plantain 	A, b, c, d, e, f, g, h	
2.5 Anadromous fish: <ul style="list-style-type: none"> Atlantic Salmon River Lamprey Sea Lamprey 	A, b, c, d, e, g, h,	
2.6 Non-migratory fish and invertebrates of rivers: <ul style="list-style-type: none"> Brook Lamprey Bullhead 	A, b, c, d, e, g, h,	
2.9 Mammals of riverine habitats: <ul style="list-style-type: none"> Otter 	A, b, c, d, e, g, h,	
<u>Dee Estuary SPA features</u>		
3.4 Birds of lowland wet grasslands: <ul style="list-style-type: none"> Bar-tailed Godwit Black-tailed Godwit Curlew Dunlin Grey Plover Knot Oystercatcher Redshank Teal 	A	

3.6 Birds of lowland freshwaters and their margins: <ul style="list-style-type: none"> ▪ Common Tern ▪ Pintail ▪ Shelduck ▪ Teal 	A, b, c, d, e, g	
3.7 Birds of Farmland: <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Oystercatcher ▪ Redshank 	N/A	
3.8 Birds of coastal habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Black-tailed Godwit ▪ Common Tern ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Little Tern ▪ Oystercatcher ▪ Pintail ▪ Redshank ▪ Sandwich Tern ▪ Shelduck ▪ Teal 	A, b, d, e, g	
3.9 Birds of estuarine habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Black-tailed Godwit ▪ Common Tern ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Little Tern ▪ Oystercatcher ▪ Pintail ▪ Redshank ▪ Sandwich Tern ▪ Shelduck ▪ Teal 	A, b, d, e, f, g, h	

3.10 Birds of open sea and offshore rocks: <ul style="list-style-type: none"> ▪ Common Tern ▪ Little Tern ▪ Sandwich Tern 	A	
<u>Dee Estuary cSAC features:</u>		
1.10 Coastal Habitats <ul style="list-style-type: none"> ▪ Embryonic shifting dunes ▪ Fixed dunes with herbaceous vegetation (grey dunes) ▪ Shifting dunes along the shoreline with <i>Ammophila arenaria</i> (white dunes) 	N/A	
1.11 Coastal habitats (sensitive to abstraction) <ul style="list-style-type: none"> ▪ Humid dune slacks ▪ Vegetated sea cliffs of the Atlantic and Baltic coasts 	A, b, d, f, g, h	
1.12 Estuarine and intertidal habitats: <ul style="list-style-type: none"> ▪ Estuaries ▪ Mudflats and sandflats not covered by seawater at low tide ▪ Atlantic salt meadows ▪ <i>Salicornia</i> and other annuals colonising mud and sand 	A, b, d, e, f, g, h	
2.4 Mosses and liverworts <ul style="list-style-type: none"> ▪ Petal Wort 	N/A	
2.5 Anadromous fish: <ul style="list-style-type: none"> ▪ River Lamprey ▪ Sea Lamprey 	A, b, c, d, e, g, h	
<u>Dee Estuary RAMSAR features:</u>		
2.10 Amphibia <ul style="list-style-type: none"> ▪ Natterjack toad 	A, b, c, d, e, g, h	

3.9 Birds of estuarine habitats <ul style="list-style-type: none"> ▪ Sandwich tern ▪ Common tern ▪ little tern ▪ Oyster Catcher ▪ Grey plover ▪ Dunlin ▪ Black-tailed Godwit 	A, b, d, e, f, g, h	
3.8 Birds of coastal habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Shelduck ▪ Pintail ▪ Curlew ▪ Redshank 	A, b, d, e, g	
Key: - A – Toxic contamination B – Nutrient enrichment C – pH changes D – Changes in salinity regime E – Changes in thermal regime F – Physical damage G – Turbidity H - Siltation		

10. Is the potential scale or magnitude of any effect likely to be significant?

a) Alone? (explain conclusion, e.g. in relation to de minimus criteria)	No – see point 10c
b) In combination with other plans or projects?	No - see point 10c

<p>c) In combination with plans/projects of other Competent Authorities?</p>	<p>As a result of its risk assessment, the Agency can conclude that this application could not act in combination with plans/projects of other competent authorities. Consultation has not been necessary and our conclusion is that this project could not act alone or in combination with any other plans or projects.</p> <p>AMP 3 is a national scheme undertaken by Welsh Water designed to improve water quality The scheme of improvements taking place at Llanarmon yn Ial Wastewater Treatment Works has been assessed as a catchment resolution, incorporating improvements to the Llanarmon storm discharge.</p> <p>The catchment is fixed residential in nature with no trade inputs.</p>	
<p>11. Conclusion: Is the proposal likely to have a significant effect 'alone or in combination' on a European site?</p>	<p>Application to discharge up to 294.9m³/day of biologically treated sewage effluent to the River Alyn.</p> <p>Treatment at the works will consist of a macerator (to macerate the raw sewage), a primary settlement tank, and biological filtration via nitrifying filters.</p> <p>The installation of a new humus settlement tank is designed to separate suspended solids from the biologically treated effluent and prevent them from entering the watercourse. Re-circulation on the nitrifying filters should sustain the biological treatment process by keeping the media surface constantly wetted. This will help to avoid any problems of solid build up by promoting improved settlement of the humus solids.</p> <p>Extensive consultation and modelling has taken place between Dŵr Cymru Welsh Water and the Environment Agency to ensure the WwTW meets AMP design guidelines. It is anticipated that this discharge will have no detrimental effect upon the surrounding habitats as it is represents essential improvements to the current works, and will improve the quality of the final effluent discharged.</p>	
<p>12. Name of EA Officer:</p>	<p>Sarah Middleton</p>	<p>Date: 19/10/04</p>

13. EN/CCW comment on assessment: (If the EN/CCW officer disagrees with the conclusion of 10c, please include details of the other Competent Authorities which should be consulted).		
14. Name of EN/CCW Officer:		Date:
IF THE PROPOSAL IS LIKELY TO HAVE A SIGNIFICANT EFFECT AN APPROPRIATE ASSESSMENT WILL BE REQUIRED (see part B for suggested scope).		

Part B - SUGGESTED SCOPE OF THE APPROPRIATE ASSESSMENT:

(see also EN and CCW Habitats Regulations Guidance Notes HRGN1 and OH 99/01)

(Water Resources, please see note in Appendix 4 of the guidance for assessing new permissions)

(add details to following framework)

- Other competent authorities involved (the scope of the appropriate assessment must be agreed with them).
- Characterise the site in relation to the qualifying features and their conservation objectives;
 - Existing information
 - Additional surveys
 - Management/ unauthorised impacts
- Detailed description of plan/project
- Assess each likely impact on the interest features;
 - Compare with historical data
 - predict impacts
 - compare with impact from management/unauthorised activities
- Determine the extent to which each possible impact can be avoided.
- What alternative solutions could be considered?

15. EN/CCW Comment on scope of appropriate assessment:

16. Name of EN/CCW Officer:

Date:

APPENDIX 11

Form HR01: Proforma for new applications within Stage 2 criteria.



ENVIRONMENT
AGENCY

Environment Agency Record of Assessment of Likely Significant Effect On A European Site (Stage 2)

The new application for a *<please fill in details>* detailed below is within the Stage 1 criteria of *<please fill in details>*, and in order to progress the application a Stage 2 assessment and consultation with EN/CCW is required.

PART A

To be completed by relevant technical/project officer in consultation with Conservation/Ecology section and EN/CCW

1. Type of permission/activity:	Water Resources Act (1991) (as amended by Environment Act 1995) consent to discharge
2. Agency reference no:	CM0001202
3. National Grid reference:	SJ 18999 55912
4. Site reference:	Llanarmon yn Ial Wastewater Treatment Works (Storm) Llanarmon yn Ial Nr Mold Denbighshire
5. Brief description of proposal:	Application to discharge screened sewage effluent intermittantly under storm conditions to the River Alyn.
6. European site name(s) and status:	Alyn Valley Woods cSAC: UK0030078 River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid cSAC: UK0030252 Dee Estuary SPA: UK9013011 Dee Estuary cSAC: UK9013011 River Dee RAMSAR features: 7UK020

<p>7. List of interest features:</p>	<p>1.2 Fens and wet habitats (not sensitive to acidification)</p> <p>1.3 Riverine habitats and running waters</p> <p>1.6 Dry woodlands and scrub</p> <p>1.7 Dry Grassland</p> <p>1.10 Coastal Habitats</p> <p>1.11 Coastal habitats (sensitive to abstraction)</p> <p>1.12 Estuarine and intertidal habitats</p> <p>2.1 Vascular plants of aquatic habitats</p> <p>2.4 Mosses and liverworts</p> <p>2.5 Anadromous fish</p> <p>2.6 Non-migratory fish and invertebrates of rivers</p> <p>2.9 Mammals of riverine habitats</p> <p>2.10 Amphibia</p> <p>3.4 Birds of lowland wet grasslands</p> <p>3.6 Birds of lowland freshwaters and their margins</p> <p>3.7 Birds of farmland</p> <p>3.8 Birds of coastal habitats</p> <p>3.9 Birds of estuarine habitats</p> <p>3.10 Birds of open sea and offshore rocks</p>
<p>8. Is the proposal directly connected with or necessary to the management of the site for nature conservation?</p>	<p>No</p>
<p>9.</p>	<p>What potential hazards are likely to affect the interest features? (Refer to relevant sensitivity matrix and only include those to which the interest features are sensitive). Are the interest features potentially exposed to the hazard?</p>

Sensitive Interest Feature:	Potential hazard:	Potential exposure to hazard and mechanism of effect/impact if known:
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<u>Alyn Valley Woods cSAC features:</u>		
1.2 Fens and wet habitats (not sensitive to acidification) <ul style="list-style-type: none"> Residual alluvial forests 	A, b, c, e, f, h	
1.6 Dry woodlands and scrub; <ul style="list-style-type: none"> <i>Tilo-Acerion</i> ravine woodlands 	N/A	
1.7 Dry Grassland: <ul style="list-style-type: none"> Semi-natural dry grasslands and scrubland facies on calcareous substrates (<i>Festuco-Brometalia</i>) 	N/A	
<u>River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid cSAC features:</u>		
1.3 Riverine habitats and running waters: <ul style="list-style-type: none"> Floating vegetation of <i>Ranunculus</i> of plain and submountainous rivers 	A, b, c, d, e, f, g, h	
2.1 Vascular plants of aquatic habitats: <ul style="list-style-type: none"> Floating water plantain 	A, b, c, d, e, f, g, h	
2.5 Anadromous fish: <ul style="list-style-type: none"> Atlantic Salmon River Lamprey Sea Lamprey 	A, b, c, d, e, g, h,	
2.6 Non-migratory fish and invertebrates of rivers: <ul style="list-style-type: none"> Brook Lamprey Bullhead 	A, b, c, d, e, g, h,	
2.9 Mammals of riverine habitats: <ul style="list-style-type: none"> Otter 	A, b, c, d, e, g, h,	
<u>Dee Estuary SPA features</u>		
3.4 Birds of lowland wet grasslands: <ul style="list-style-type: none"> Bar-tailed Godwit Black-tailed Godwit Curlew Dunlin Grey Plover Knot Oystercatcher Redshank Teal 	A	

3.6 Birds of lowland freshwaters and their margins: <ul style="list-style-type: none"> ▪ Common Tern ▪ Pintail ▪ Shelduck ▪ Teal 	A, b, c, d, e, g	
3.7 Birds of Farmland: <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Oystercatcher ▪ Redshank 	N/A	
3.8 Birds of coastal habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Black-tailed Godwit ▪ Common Tern ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Little Tern ▪ Oystercatcher ▪ Pintail ▪ Redshank ▪ Sandwich Tern ▪ Shelduck ▪ Teal 	A, b, d, e, g	
3.9 Birds of estuarine habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Black-tailed Godwit ▪ Common Tern ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Little Tern ▪ Oystercatcher ▪ Pintail ▪ Redshank ▪ Sandwich Tern ▪ Shelduck ▪ Teal 	A, b, d, e, f, g, h	

3.10 Birds of open sea and offshore rocks: <ul style="list-style-type: none"> Common Tern Little Tern Sandwich Tern 	A	
<u>Dee Estuary cSAC features:</u>		
1.10 Coastal Habitats <ul style="list-style-type: none"> Embryonic shifting dunes Fixed dunes with herbaceous vegetation (grey dunes) Shifting dunes along the shoreline with <i>Ammophila arenaria</i> (white dunes) 	N/A	
1.11 Coastal habitats (sensitive to abstraction) <ul style="list-style-type: none"> Humid dune slacks Vegetated sea cliffs of the Atlantic and Baltic coasts 	A, b, d, f, g, h	
1.12 Estuarine and intertidal habitats: <ul style="list-style-type: none"> Estuaries Mudflats and sandflats not covered by seawater at low tide Atlantic salt meadows <i>Salicornia</i> and other annuals colonising mud and sand 	A, b, d, e, f, g, h	
2.4 Mosses and liverworts <ul style="list-style-type: none"> Petal Wort 	N/A	
2.5 Anadromous fish: <ul style="list-style-type: none"> River Lamprey Sea Lamprey 	A, b, c, d, e, g, h	
<u>Dee Estuary RAMSAR features:</u>		
2.10 Amphibia <ul style="list-style-type: none"> Natterjack toad 	A, b, c, d, e, g, h	

3.9 Birds of estuarine habitats <ul style="list-style-type: none"> ▪ Sandwich tern ▪ Common tern ▪ little tern ▪ Oyster Catcher ▪ Grey plover ▪ Dunlin ▪ Black-tailed Godwit 	A, b, d, e, f, g, h	
3.8 Birds of coastal habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Shelduck ▪ Pintail ▪ Curlew ▪ Redshank 	A, b, d, e, g	
Key: - A – Toxic contamination B – Nutrient enrichment C – pH changes D – Changes in salinity regime E – Changes in thermal regime F – Physical damage G – Turbidity H - Siltation		

10. Is the potential scale or magnitude of any effect likely to be significant?	
a) Alone? (explain conclusion, e.g. in relation to de minimus criteria)	No – see point 10c
b) In combination with other plans or projects?	No - see point 10c

<p>c) In combination with plans/projects of other Competent Authorities?</p>	<p>As a result of its risk assessment, the Agency can conclude that this application could not act in combination with plans/projects of other competent authorities. Consultation has not been necessary and our conclusion is that this project could not act alone or in combination with any other plans or projects.</p> <p>AMP 3 is a national scheme undertaken by Welsh Water designed to improve water quality The scheme of improvements taking place at Llanarmon yn Ial Wastewater Treatment Works has been assessed as a catchment resolution, incorporating improvements to the final effluent discharge at the works itself.</p> <p>The catchment is fixed residential in nature with no trade inputs.</p>	
<p>11. Conclusion: Is the proposal likely to have a significant effect 'alone or in combination' on a European site?</p>	<p>Application to discharge screened sewage effluent intermittantly under storm conditions to the River Alyn.</p> <p>A macerator is provided at the inlet works to macerate all flows of raw sewage. Flows in excess of 6 times the dry weather flow will pass through a brush screen before being discharged via the storm outlet. Telemetry is already provided on site and duty standby pumps are available.</p> <p>Extensive consultation and modelling has taken place between Dŵr Cymru Welsh Water and the Environment Agency to ensure the WwTW meets AMP design guidelines. It is anticipated that this discharge will have no detrimental effect upon the surrounding habitats as it is represents essential improvements to the current works, and will improve the quality of the final effluent discharged.</p>	
<p>15. Name of EA Officer:</p>	<p>Sarah Middleton</p>	<p>Date: 19/10/04</p>
<p>16. EN/CCW comment on assessment:</p> <p>(If the EN/CCW officer disagrees with the conclusion of 10c, please include details of the other Competent Authorities which should be consulted).</p>		
<p>17. Name of EN/CCW Officer:</p>		<p>Date:</p>

IF THE PROPOSAL IS LIKELY TO HAVE A SIGNIFICANT EFFECT AN APPROPRIATE ASSESSMENT WILL BE REQUIRED (see part B for suggested scope).		

Part B - SUGGESTED SCOPE OF THE APPROPRIATE ASSESSMENT:

(see also EN and CCW Habitats Regulations Guidance Notes HRGN1 and OH 99/01)

(Water Resources, please see note in Appendix 4 of the guidance for assessing new permissions)

(add details to following framework)

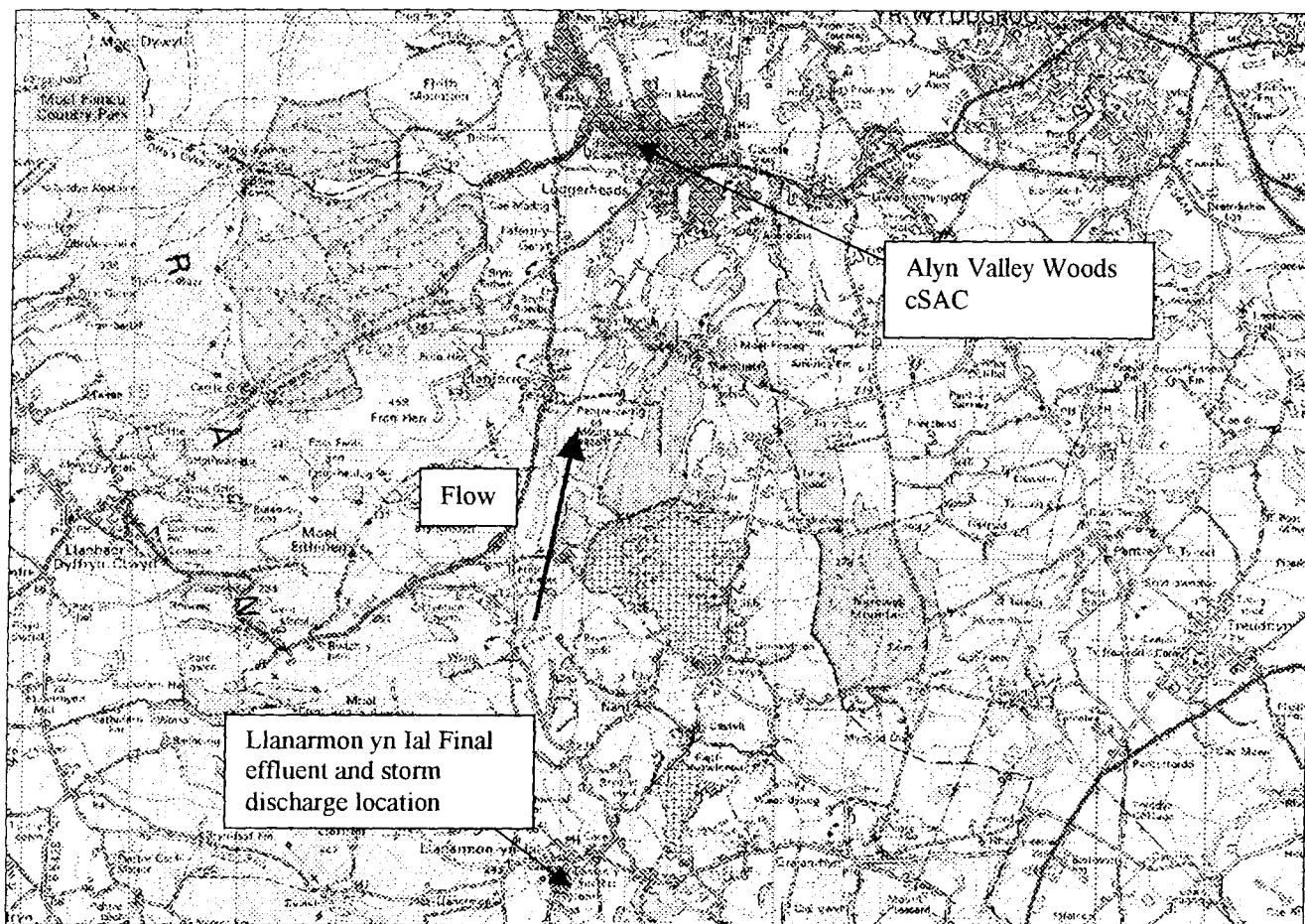
- Other competent authorities involved (the scope of the appropriate assessment must be agreed with them).
- Characterise the site in relation to the qualifying features and their conservation objectives;
 - Existing information
 - Additional surveys
 - Management/ unauthorised impacts
- Detailed description of plan/project
- Assess each likely impact on the interest features;
 - Compare with historical data
 - predict impacts
 - compare with impact from management/unauthorised activities
- Determine the extent to which each possible impact can be avoided.
- What alternative solutions could be considered?

15. EN/CCW Comment on scope of appropriate assessment:

16. Name of EN/CCW Officer:

Date:

LOCATION MAP FOR BALA WASTEWATER TREATMENT WORKS



One Centimetre = 0.68 Km

Km 1 2 3 4 5 6

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Layer	Key
Designations - SSSIs (Sites of Special Scientific Interest) at 10,000 - WA	
Designations - SPAs (Special Protection Areas) at 10,000 - WA	
Designations - SACs (Special Areas of Conservation) at 10,000 - WA	
Designations - RAMSAR Sites at 10,000 - WA	

COPY

APPENDIX 11**Form HR01: Proforma for new applications within Stage 2 criteria.****ENVIRONMENT
AGENCY*****Environment Agency Record of Assessment of Likely Significant Effect On A European Site (Stage 2)***

The new application for a *<please fill in details>* detailed below is within the Stage 1 criteria of *<please fill in details>*, and in order to progress the application a Stage 2 assessment and consultation with EN/CCW is required.

PART A

To be completed by relevant technical/project officer in consultation with Conservation/Ecology section and EN/CCW

1. Type of permission/activity:	Water Resources Act (1991) (as amended by Environment Act 1995) consent to discharge
2. Agency reference no:	CM0001201
3. National Grid reference:	SJ 19022 55938
4. Site reference:	Llanarmon yn Ial Wastwater Treatment Works Llanarmon yn Ial Nr Mold Denbighshire
5. Brief description of proposal:	Application to discharge up to 294.9m ³ /day of biologically treated sewage effluent to the River Alyn.
6. European site name(s) and status:	Alyn Valley Woods cSAC: UK0030078 River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid cSAC: UK0030252 Dee Estuary SPA: UK9013011 Dee Estuary cSAC: UK9013011 River Dee RAMSAR features: 7UK020

<p>7. List of interest features:</p>	<p>1.1 Fens and wet habitats (not sensitive to acidification)</p> <p>1.3 Riverine habitats and running waters</p> <p>1.6 Dry woodlands and scrub</p> <p>1.7 Dry Grassland</p> <p>1.10 Coastal Habitats</p> <p>1.11 Coastal habitats (sensitive to abstraction)</p> <p>1.12 Estuarine and intertidal habitats</p> <p>2.1 Vascular plants of aquatic habitats</p> <p>2.4 Mosses and liverworts</p> <p>2.5 Anadromous fish</p> <p>2.6 Non-migratory fish and invertebrates of rivers</p> <p>2.9 Mammals of riverine habitats</p> <p>2.10 Amphibia</p> <p>3.4 Birds of lowland wet grasslands</p> <p>3.6 Birds of lowland freshwaters and their margins</p> <p>3.7 Birds of farmland</p> <p>3.8 Birds of coastal habitats</p> <p>3.9 Birds of estuarine habitats</p> <p>3.10 Birds of open sea and offshore rocks</p>
<p>8. Is the proposal directly connected with or necessary to the management of the site for nature conservation?</p>	<p>No</p>
<p>9.</p>	<p>What potential hazards are likely to affect the interest features? (Refer to relevant sensitivity matrix and only include those to which the interest features are sensitive). Are the interest features potentially exposed to the hazard?</p>

Sensitive Interest Feature:	Potential hazard:	Potential exposure to hazard and mechanism of effect/impact if known:
-----------------------------	-------------------	---

<u>Alyn Valley Woods cSAC features:</u>		
1.1 Fens and wet habitats (not sensitive to acidification) <ul style="list-style-type: none"> Residual alluvial forests 	A, b, c, e, f, h	
1.6 Dry woodlands and scrub; <ul style="list-style-type: none"> <i>Tilo-Acerion</i> ravine woodlands 	N/A	
1.7 Dry Grassland: <ul style="list-style-type: none"> Semi-natural dry grasslands and scrubland facies on calcareous substrates (<i>Festuco-Brometalia</i>) 	N/A	
<u>River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid cSAC features:</u>		
1.3 Riverine habitats and running waters: <ul style="list-style-type: none"> Floating vegetation of <i>Ranunculus</i> of plain and submountainous rivers 	A, b, c, d, e, f, g, h	
2.1 Vascular plants of aquatic habitats: <ul style="list-style-type: none"> Floating water plantain 	A, b, c, d, e, f, g, h	
2.5 Anadromous fish: <ul style="list-style-type: none"> Atlantic Salmon River Lamprey Sea Lamprey 	A, b, c, d, e, g, h,	
2.6 Non-migratory fish and invertebrates of rivers: <ul style="list-style-type: none"> Brook Lamprey Bullhead 	A, b, c, d, e, g, h,	
2.9 Mammals of riverine habitats: <ul style="list-style-type: none"> Otter 	A, b, c, d, e, g, h,	
<u>Dee Estuary SPA features</u>		
3.4 Birds of lowland wet grasslands: <ul style="list-style-type: none"> Bar-tailed Godwit Black-tailed Godwit Curlew Dunlin Grey Plover Knot Oystercatcher Redshank Teal 	A	

3.6 Birds of lowland freshwaters and their margins: <ul style="list-style-type: none"> ▪ Common Tern ▪ Pintail ▪ Shelduck ▪ Teal 	A, b, c, d, e, g	
3.7 Birds of Farmland: <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Oystercatcher ▪ Redshank 	N/A	
3.8 Birds of coastal habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Black-tailed Godwit ▪ Common Tern ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Little Tern ▪ Oystercatcher ▪ Pintail ▪ Redshank ▪ Sandwich Tern ▪ Shelduck ▪ Teal 	A, b, d, e, g	
3.9 Birds of estuarine habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Black-tailed Godwit ▪ Common Tern ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Little Tern ▪ Oystercatcher ▪ Pintail ▪ Redshank ▪ Sandwich Tern ▪ Shelduck ▪ Teal 	A, b, d, e, f, g, h	

3.10 Birds of open sea and offshore rocks: <ul style="list-style-type: none"> ▪ Common Tern ▪ Little Tern ▪ Sandwich Tern 	A	
<u>Dee Estuary cSAC features:</u>		
1.10 Coastal Habitats <ul style="list-style-type: none"> ▪ Embryonic shifting dunes ▪ Fixed dunes with herbaceous vegetation (grey dunes) ▪ Shifting dunes along the shoreline with <i>Ammophila arenaria</i> (white dunes) 	N/A	
1.11 Coastal habitats (sensitive to abstraction) <ul style="list-style-type: none"> ▪ Humid dune slacks ▪ Vegetated sea cliffs of the Atlantic and Baltic coasts 	A, b, d, f, g, h	
1.12 Estuarine and intertidal habitats: <ul style="list-style-type: none"> ▪ Estuaries ▪ Mudflats and sandflats not covered by seawater at low tide ▪ Atlantic salt meadows ▪ <i>Salicornia</i> and other annuals colonising mud and sand 	A, b, d, e, f, g, h	
2.4 Mosses and liverworts <ul style="list-style-type: none"> ▪ Petal Wort 	N/A	
2.5 Anadromous fish: <ul style="list-style-type: none"> ▪ River Lamprey ▪ Sea Lamprey 	A, b, c, d, e, g, h	
<u>Dee Estuary RAMSAR features:</u>		
2.10 Amphibia <ul style="list-style-type: none"> ▪ Natterjack toad 	A, b, c, d, e, g, h	

3.9 Birds of estuarine habitats <ul style="list-style-type: none"> ▪ Sandwich tern ▪ Common tern ▪ little tern ▪ Oyster Catcher ▪ Grey plover ▪ Dunlin ▪ Black-tailed Godwit 	A, b, d, e, f, g, h	
3.8 Birds of coastal habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Shelduck ▪ Pintail ▪ Curlew ▪ Redshank 	A, b, d, e, g	
Key: - A – Toxic contamination B – Nutrient enrichment C – pH changes D – Changes in salinity regime E – Changes in thermal regime F – Physical damage G – Turbidity H - Siltation		
10. Is the potential scale or magnitude of any effect likely to be significant?		
a) Alone? (explain conclusion, e.g. in relation to de minimus criteria)	No – see point 10c	
b) In combination with other plans or projects?	No - see point 10c	

<p>c) In combination with plans/projects of other Competent Authorities?</p>	<p>As a result of its risk assessment, the Agency can conclude that this application could not act in combination with plans/projects of other competent authorities. Consultation has not been necessary and our conclusion is that this project could not act alone or in combination with any other plans or projects.</p> <p>AMP 3 is a national scheme undertaken by Welsh Water designed to improve water quality The scheme of improvements taking place at Llanarmon yn Ial Wastewater Treatment Works has been assessed as a catchment resolution, incorporating improvements to the Llanarmon storm discharge.</p> <p>The catchment is fixed residential in nature with no trade inputs.</p>	
<p>11. Conclusion: Is the proposal likely to have a significant effect 'alone or in combination' on a European site?</p>	<p>Application to discharge up to 294.9m³/day of biologically treated sewage effluent to the River Alyn.</p> <p>Treatment at the works will consist of a macerator (to macerate the raw sewage), a primary settlement tank, and biological filtration via nitrifying filters.</p> <p>The installation of a new humus settlement tank is designed to separate suspended solids from the biologically treated effluent and prevent them from entering the watercourse. Re-circulation on the nitrifying filters should sustain the biological treatment process by keeping the media surface constantly wetted. This will help to avoid any problems of solid build up by promoting improved settlement of the humus solids.</p> <p>Extensive consultation and modelling has taken place between Dŵr Cymru Welsh Water and the Environment Agency to ensure the WwTW meets AMP design guidelines. It is anticipated that this discharge will have no detrimental effect upon the surrounding habitats as it is represents essential improvements to the current works, and will improve the quality of the final effluent discharged.</p>	
<p>12. Name of EA Officer:</p>	<p>Sarah Middleton</p>	<p>Date: 19/10/04</p>

13. EN/CCW comment on assessment: (If the EN/CCW officer disagrees with the conclusion of 10c, please include details of the other Competent Authorities which should be consulted).		
14. Name of EN/CCW Officer:		Date:
IF THE PROPOSAL IS LIKELY TO HAVE A SIGNIFICANT EFFECT AN APPROPRIATE ASSESSMENT WILL BE REQUIRED (see part B for suggested scope).		

Part B - SUGGESTED SCOPE OF THE APPROPRIATE ASSESSMENT:

(see also EN and CCW Habitats Regulations Guidance Notes HRGN1 and OH 99/01)

(Water Resources, please see note in Appendix 4 of the guidance for assessing new permissions)

(add details to following framework)

- Other competent authorities involved (the scope of the appropriate assessment must be agreed with them).
- Characterise the site in relation to the qualifying features and their conservation objectives;
 - Existing information
 - Additional surveys
 - Management/ unauthorised impacts
- Detailed description of plan/project
- Assess each likely impact on the interest features;
 - Compare with historical data
 - predict impacts
 - compare with impact from management/unauthorised activities
- Determine the extent to which each possible impact can be avoided.
- What alternative solutions could be considered?

15. EN/CCW Comment on scope of appropriate assessment:

16. Name of EN/CCW Officer:

Date:

APPENDIX 11

Form HR01: Proforma for new applications within Stage 2 criteria.



**ENVIRONMENT
AGENCY**

Environment Agency Record of Assessment of Likely Significant Effect On A European Site (Stage 2)

The new application for a *<please fill in details>* detailed below is within the Stage 1 criteria of *<please fill in details>*, and in order to progress the application a Stage 2 assessment and consultation with EN/CCW is required.

PART A

To be completed by relevant technical/project officer in consultation with Conservation/Ecology section and EN/CCW

1. Type of permission/activity:	Water Resources Act (1991) (as amended by Environment Act 1995) consent to discharge
2. Agency reference no:	CM0001202
3. National Grid reference:	SJ 18999 55912
4. Site reference:	Llanarmon yn Ial Wastewater Treatment Works (Storm) Llanarmon yn Ial Nr Mold Denbighshire
5. Brief description of proposal:	Application to discharge screened sewage effluent intermittantly under storm conditions to the River Alyn.
6. European site name(s) and status:	Alyn Valley Woods cSAC: UK0030078 River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid cSAC: UK0030252 Dee Estuary SPA: UK9013011 Dee Estuary cSAC: UK9013011 River Dee RAMSAR features: 7UK020

<p>7. List of interest features:</p>	<p>1.2 Fens and wet habitats (not sensitive to acidification)</p> <p>1.3 Riverine habitats and running waters</p> <p>1.6 Dry woodlands and scrub</p> <p>1.7 Dry Grassland</p> <p>1.10 Coastal Habitats</p> <p>1.11 Coastal habitats (sensitive to abstraction)</p> <p>1.12 Estuarine and intertidal habitats</p> <p>2.1 Vascular plants of aquatic habitats</p> <p>2.4 Mosses and liverworts</p> <p>2.5 Anadromous fish</p> <p>2.6 Non-migratory fish and invertebrates of rivers</p> <p>2.9 Mammals of riverine habitats</p> <p>2.10 Amphibia</p> <p>3.4 Birds of lowland wet grasslands</p> <p>3.6 Birds of lowland freshwaters and their margins</p> <p>3.7 Birds of farmland</p> <p>3.8 Birds of coastal habitats</p> <p>3.9 Birds of estuarine habitats</p> <p>3.10 Birds of open sea and offshore rocks</p>
<p>8. Is the proposal directly connected with or necessary to the management of the site for nature conservation?</p>	<p>No</p>
<p>9.</p>	<p>What potential hazards are likely to affect the interest features? (Refer to relevant sensitivity matrix and only include those to which the interest features are sensitive). Are the interest features potentially exposed to the hazard?</p>

Sensitive Interest Feature:	Potential hazard:	Potential exposure to hazard and mechanism of effect/impact if known:
-----------------------------	-------------------	---

<u>Alyn Valley Woods cSAC features:</u>		
1.2 Fens and wet habitats (not sensitive to acidification) <ul style="list-style-type: none"> Residual alluvial forests 	A, b, c, e, f, h	
1.6 Dry woodlands and scrub; <ul style="list-style-type: none"> <i>Tilo-Acerion</i> ravine woodlands 	N/A	
1.7 Dry Grassland: <ul style="list-style-type: none"> Semi-natural dry grasslands and scrubland facies on calcareous substrates (<i>Festuco-Brometalia</i>) 	N/A	
<u>River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid cSAC features:</u>		
1.3 Riverine habitats and running waters: <ul style="list-style-type: none"> Floating vegetation of <i>Ranunculus</i> of plain and submountainous rivers 	A, b, c, d, e, f, g, h	
2.1 Vascular plants of aquatic habitats: <ul style="list-style-type: none"> Floating water plantain 	A, b, c, d, e, f, g, h	
2.5 Anadromous fish: <ul style="list-style-type: none"> Atlantic Salmon River Lamprey Sea Lamprey 	A, b, c, d, e, g, h,	
2.6 Non-migratory fish and invertebrates of rivers: <ul style="list-style-type: none"> Brook Lamprey Bullhead 	A, b, c, d, e, g, h,	
2.9 Mammals of riverine habitats: <ul style="list-style-type: none"> Otter 	A, b, c, d, e, g, h,	
<u>Dee Estuary SPA features</u>		
3.4 Birds of lowland wet grasslands: <ul style="list-style-type: none"> Bar-tailed Godwit Black-tailed Godwit Curlew Dunlin Grey Plover Knot Oystercatcher Redshank Teal 	A	

3.6 Birds of lowland freshwaters and their margins: <ul style="list-style-type: none"> ▪ Common Tern ▪ Pintail ▪ Shelduck ▪ Teal 	A, b, c, d, e, g	
3.7 Birds of Farmland: <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Oystercatcher ▪ Redshank 	N/A	
3.8 Birds of coastal habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Black-tailed Godwit ▪ Common Tern ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Little Tern ▪ Oystercatcher ▪ Pintail ▪ Redshank ▪ Sandwich Tern ▪ Shelduck ▪ Teal 	A, b, d, e, g	
3.9 Birds of estuarine habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Black-tailed Godwit ▪ Common Tern ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Little Tern ▪ Oystercatcher ▪ Pintail ▪ Redshank ▪ Sandwich Tern ▪ Shelduck ▪ Teal 	A, b, d, e, f, g, h	

3.10 Birds of open sea and offshore rocks: <ul style="list-style-type: none"> ▪ Common Tern ▪ Little Tern ▪ Sandwich Tern 	A	
<u>Dee Estuary cSAC features:</u>		
1.10 Coastal Habitats <ul style="list-style-type: none"> ▪ Embryonic shifting dunes ▪ Fixed dunes with herbaceous vegetation (grey dunes) ▪ Shifting dunes along the shoreline with <i>Ammophila arenaria</i> (white dunes) 	N/A	
1.11 Coastal habitats (sensitive to abstraction) <ul style="list-style-type: none"> ▪ Humid dune slacks ▪ Vegetated sea cliffs of the Atlantic and Baltic coasts 	A, b, d, f, g, h	
1.12 Estuarine and intertidal habitats: <ul style="list-style-type: none"> ▪ Estuaries ▪ Mudflats and sandflats not covered by seawater at low tide ▪ Atlantic salt meadows ▪ <i>Salicornia</i> and other annuals colonising mud and sand 	A, b, d, e, f, g, h	
2.4 Mosses and liverworts <ul style="list-style-type: none"> ▪ Petal Wort 	N/A	
2.5 Anadromous fish: <ul style="list-style-type: none"> ▪ River Lamprey ▪ Sea Lamprey 	A, b, c, d, e, g, h	
<u>Dee Estuary RAMSAR features:</u>		
2.10 Amphibia <ul style="list-style-type: none"> ▪ Natterjack toad 	A, b, c, d, e, g, h	

3.9 Birds of estuarine habitats <ul style="list-style-type: none"> ▪ Sandwich tern ▪ Common tern ▪ little tern ▪ Oyster Catcher ▪ Grey plover ▪ Dunlin ▪ Black-tailed Godwit 	A, b, d, e, f, g, h	
3.8 Birds of coastal habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Shelduck ▪ Pintail ▪ Curlew ▪ Redshank 	A, b, d, e, g	
Key: - A – Toxic contamination B – Nutrient enrichment C – pH changes D – Changes in salinity regime E – Changes in thermal regime F – Physical damage G – Turbidity H - Siltation		

10. Is the potential scale or magnitude of any effect likely to be significant?	
a) Alone? (explain conclusion, e.g. in relation to de minimus criteria)	No – see point 10c
b) In combination with other plans or projects?	No - see point 10c

<p>c) In combination with plans/projects of other Competent Authorities?</p>	<p>As a result of its risk assessment, the Agency can conclude that this application could not act in combination with plans/projects of other competent authorities. Consultation has not been necessary and our conclusion is that this project could not act alone or in combination with any other plans or projects.</p> <p>AMP 3 is a national scheme undertaken by Welsh Water designed to improve water quality The scheme of improvements taking place at Llanarmon yn Ial Wastewater Treatment Works has been assessed as a catchment resolution, incorporating improvements to the final effluent discharge at the works itself.</p> <p>The catchment is fixed residential in nature with no trade inputs.</p>	
<p>11. Conclusion: Is the proposal likely to have a significant effect 'alone or in combination' on a European site?</p>	<p>Application to discharge screened sewage effluent intermittantly under storm conditions to the River Alyn.</p> <p>A macerator is provided at the inlet works to macerate all flows of raw sewage. Flows in excess of 6 times the dry weather flow will pass through a brush screen before being discharged via the storm outlet. Telemetry is already provided on site and duty standby pumps are available.</p> <p>Extensive consultation and modelling has taken place between Dŵr Cymru Welsh Water and the Environment Agency to ensure the WwTW meets AMP design guidelines. It is anticipated that this discharge will have no detrimental effect upon the surrounding habitats as it is represents essential improvements to the current works, and will improve the quality of the final effluent discharged.</p>	
<p>15. Name of EA Officer:</p>	<p>Sarah Middleton</p>	<p>Date: 19/10/04</p>
<p>16. EN/CCW comment on assessment:</p> <p>(If the EN/CCW officer disagrees with the conclusion of 10c, please include details of the other Competent Authorities which should be consulted).</p>		
<p>17. Name of EN/CCW Officer:</p>		<p>Date:</p>

IF THE PROPOSAL IS LIKELY TO HAVE A SIGNIFICANT EFFECT AN APPROPRIATE ASSESSMENT WILL BE REQUIRED (see part B for suggested scope).		

Part B - SUGGESTED SCOPE OF THE APPROPRIATE ASSESSMENT:

(see also EN and CCW Habitats Regulations Guidance Notes HRGN1 and OH 99/01)

(Water Resources, please see note in Appendix 4 of the guidance for assessing new permissions)

(add details to following framework)

- Other competent authorities involved (the scope of the appropriate assessment must be agreed with them).
- Characterise the site in relation to the qualifying features and their conservation objectives;
 - Existing information
 - Additional surveys
 - Management/ unauthorised impacts

Detailed description of plan/project

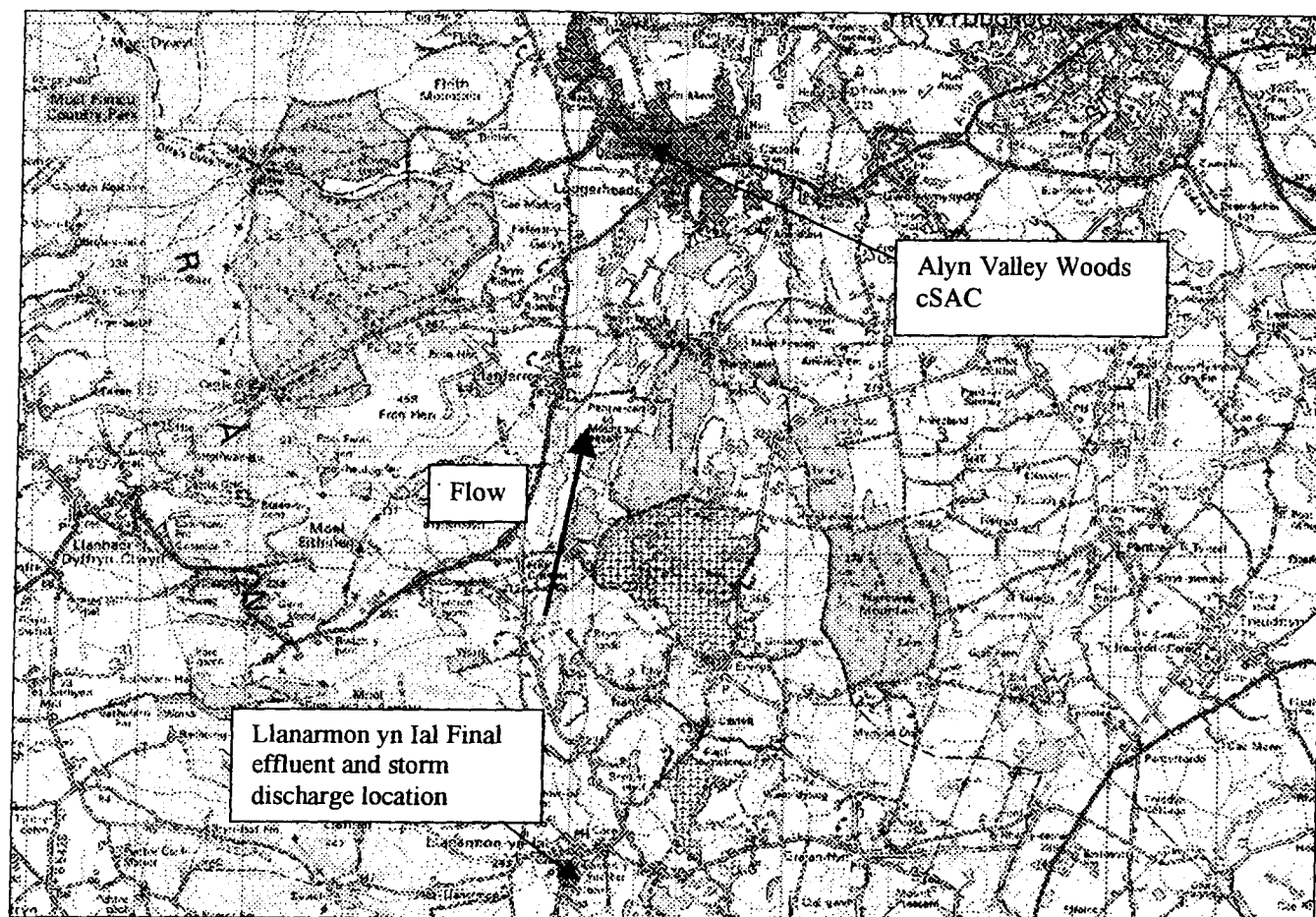
- Assess each likely impact on the interest features;
 - Compare with historical data
 - predict impacts
 - compare with impact from management/unauthorised activities
- Determine the extent to which each possible impact can be avoided.
- What alternative solutions could be considered?

15. EN/CCW Comment on scope of appropriate assessment:

16. Name of EN/CCW Officer:

Date:

LOCATION MAP FOR BALA WASTEWATER TREATMENT WORKS



One Centimetre = 0.68 Km
 Km 1 2 3 4 5 6

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Layer	Key
Designations - SSSIs (Sites of Special Scientific Interest) at 10,000 - WA	
Designations - SPAs (Special Protection Areas) at 10,000 - WA	
Designations - SACs (Special Areas of Conservation) at 10,000 - WA	
Designations - RAMSAR Sites at 10,000 - WA	

APPENDIX 11

Form HR01: Proforma for new applications within Stage 2 criteria.



ENVIRONMENT
AGENCY

Environment Agency Record of Assessment of Likely Significant Effect On A European Site (Stage 2)

The new application for a *<please fill in details>* detailed below is within the Stage 1 criteria of *<please fill in details>*, and in order to progress the application a Stage 2 assessment and consultation with EN/CCW is required.

PART A

To be completed by relevant technical/project officer in consultation with Conservation/Ecology section and EN/CCW

1. Type of permission/activity:	Water Resources Act (1991) (as amended by Environment Act 1995) consent to discharge
2. Agency reference no:	CM0001201
3. National Grid reference:	SJ 19022 55938
4. Site reference:	Llanarmon yn Ial Wastwater Treatment Works Llanarmon yn Ial Nr Mold Denbighshire
5. Brief description of proposal:	Application to discharge up to 294.9m ³ /day of biologically treated sewage effluent to the River Alyn.
6. European site name(s) and status:	Alyn Valley Woods cSAC: UK0030078 River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid cSAC: UK0030252 Dee Estuary SPA: UK9013011 Dee Estuary cSAC: UK9013011 <i>Dee Estuary</i> River Dee RAMSAR features: 7UK020

<p>7. List of interest features:</p>	<p>1.1 Fens and wet habitats (not sensitive to acidification)</p> <p>1.3 Riverine habitats and running waters</p> <p>1.6 Dry woodlands and scrub</p> <p>1.7 Dry Grassland</p> <p>1.10 Coastal Habitats</p> <p>1.11 Coastal habitats (sensitive to abstraction)</p> <p>1.12 Estuarine and intertidal habitats</p> <p>2.1 Vascular plants of aquatic habitats</p> <p>2.4 Mosses and liverworts</p> <p>2.5 Anadromous fish</p> <p>2.6 Non-migratory fish and invertebrates of rivers</p> <p>2.9 Mammals of riverine habitats</p> <p>2.10 Amphibia</p> <p>3.4 Birds of lowland wet grasslands</p> <p>3.6 Birds of lowland freshwaters and their margins</p> <p>3.7 Birds of farmland</p> <p>3.8 Birds of coastal habitats</p> <p>3.9 Birds of estuarine habitats</p> <p>3.10 Birds of open sea and offshore rocks</p>
<p>8. Is the proposal directly connected with or necessary to the management of the site for nature conservation?</p>	<p>No</p>
<p>9. What potential hazards are likely to affect the interest features? (Refer to relevant sensitivity matrix and only include those to which the interest features are sensitive). Are the interest features potentially exposed to the hazard?</p>	

Sensitive Interest Feature:	Potential hazard:	Potential exposure to hazard and mechanism of effect/impact if known:
-----------------------------	-------------------	---

<u>Alyn Valley Woods cSAC features:</u>		
1.1 Fens and wet habitats (not sensitive to acidification) <ul style="list-style-type: none"> Residual alluvial forests 	A, b, c, e, f, h	
1.6 Dry woodlands and scrub; <ul style="list-style-type: none"> <i>Tilo-Acerion</i> ravine woodlands 	N/A	
1.7 Dry Grassland: <ul style="list-style-type: none"> Semi-natural dry grasslands and scrubland facies on calcareous substrates (<i>Festuco-Brometalia</i>) 	N/A	
<u>River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid cSAC features:</u>		
1.3 Riverine habitats and running waters: <ul style="list-style-type: none"> Floating vegetation of <i>Ranunculus</i> of plain and submountainous rivers 	A, b, c, d, e, f, g, h	
2.1 Vascular plants of aquatic habitats: <ul style="list-style-type: none"> Floating water plantain 	A, b, c, d, e, f, g, h	
2.5 Anadromous fish: <ul style="list-style-type: none"> Atlantic Salmon River Lamprey Sea Lamprey 	A, b, c, d, e, g, h,	
2.6 Non-migratory fish and invertebrates of rivers: <ul style="list-style-type: none"> Brook Lamprey Bullhead 	A, b, c, d, e, g, h,	
2.9 Mammals of riverine habitats: <ul style="list-style-type: none"> Otter 	A, b, c, d, e, g, h,	
<u>Dee Estuary SPA features</u>		
3.4 Birds of lowland wet grasslands: <ul style="list-style-type: none"> Bar-tailed Godwit Black-tailed Godwit Curlew Dunlin Grey Plover Knot Oystercatcher Redshank Teal 	A	

3.6 Birds of lowland freshwaters and their margins: <ul style="list-style-type: none"> ▪ Common Tern ▪ Pintail ▪ Shelduck ▪ Teal 	A, b, c, d, e, g	
3.7 Birds of Farmland: <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Oystercatcher ▪ Redshank 	N/A	
3.8 Birds of coastal habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Black-tailed Godwit ▪ Common Tern ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Little Tern ▪ Oystercatcher ▪ Pintail ▪ Redshank ▪ Sandwich Tern ▪ Shelduck ▪ Teal 	A, b, d, e, g	
3.9 Birds of estuarine habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Black-tailed Godwit ▪ Common Tern ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Little Tern ▪ Oystercatcher ▪ Pintail ▪ Redshank ▪ Sandwich Tern ▪ Shelduck ▪ Teal 	A, b, d, e, f, g, h	

3.10 Birds of open sea and offshore rocks: <ul style="list-style-type: none"> ▪ Common Tern ▪ Little Tern ▪ Sandwich Tern 	A	
<u>Dee Estuary cSAC features:</u>		~
1.10 Coastal Habitats <ul style="list-style-type: none"> ▪ Embryonic shifting dunes ▪ Fixed dunes with herbaceous vegetation (grey dunes) ▪ Shifting dunes along the shoreline with <i>Ammophila arenaria</i> (white dunes) 	N/A	
1.11 Coastal habitats (sensitive to abstraction) <ul style="list-style-type: none"> ▪ Humid dune slacks ▪ Vegetated sea cliffs of the Atlantic and Baltic coasts 	A, b, d, f, g, h	
1.12 Estuarine and intertidal habitats: <ul style="list-style-type: none"> ▪ Estuaries ▪ Mudflats and sandflats not covered by seawater at low tide ▪ Atlantic salt meadows ▪ <i>Salicornia</i> and other annuals colonising mud and sand 	A, b, d, e, f, g, h	
2.4 Mosses and liverworts <ul style="list-style-type: none"> ▪ Petal Wort 	N/A	
2.5 Anadromous fish: <ul style="list-style-type: none"> ▪ River Lamprey ▪ Sea Lamprey 	A, b, c, d, e, g, h	
<u>Dee Estuary RAMSAR features:</u>		
2.10 Amphibia <ul style="list-style-type: none"> ▪ Natterjack toad 	A, b, c, d, e, g, h	

3.9 Birds of estuarine habitats <ul style="list-style-type: none"> ▪ Sandwich tern ▪ Common tern ▪ little tern ▪ Oyster Catcher ▪ Grey plover ▪ Dunlin ▪ Black-tailed Godwit 	A, b, d, e, f, g, h	
3.8 Birds of coastal habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Shelduck ▪ Pintail ▪ Curlew ▪ Redshank 	A, b, d, e, g	
Key: - A – Toxic contamination B – Nutrient enrichment C – pH changes D – Changes in salinity regime E – Changes in thermal regime F – Physical damage G – Turbidity H - Siltation		

10. Is the potential scale or magnitude of any effect likely to be significant?

a) Alone? (explain conclusion, e.g. in relation to de minimus criteria)	No – see point 10c
b) In combination with other plans or projects?	No - see point 10c

<p>c) In combination with plans/projects of other Competent Authorities?</p>	<p>As a result of its risk assessment, the Agency can conclude that this application could not act in combination with plans/projects of other competent authorities. Consultation has not been necessary and our conclusion is that this project could not act alone or in combination with any other plans or projects.</p> <p>AMP 3 is a national scheme undertaken by Welsh Water designed to improve water quality. The scheme of improvements taking place at Llanarmon yn Ial Wastewater Treatment Works has been assessed as a catchment resolution, incorporating improvements to the Llanarmon storm discharge.</p> <p>The catchment is fixed residential in nature with no trade inputs.</p>	
<p>11. Conclusion: Is the proposal likely to have a significant effect 'alone or in combination' on a European site?</p>	<p>Application to discharge up to 294.9m³/day of biologically treated sewage effluent to the River Alyn.</p> <p>Treatment at the works will consist of a macerator (to macerate the raw sewage), a primary settlement tank, and biological filtration via nitrifying filters.</p> <p>The installation of a new humus settlement tank is designed to separate suspended solids from the biologically treated effluent and prevent them from entering the watercourse. Re-circulation on the nitrifying filters should sustain the biological treatment process by keeping the media surface constantly wetted. This will help to avoid any problems of solid build up by promoting improved settlement of the humus solids.</p> <p>Extensive consultation and modelling has taken place between Dŵr Cymru Welsh Water and the Environment Agency to ensure the WwTW meets AMP design guidelines. It is anticipated that this discharge will have no detrimental effect upon the surrounding habitats as it represents essential improvements to the current works, and will improve the quality of the final effluent discharged.</p>	
<p>12. Name of EA Officer:</p>	<p>Sarah Middleton</p>	<p>Date: 19/10/04</p>

<p>13. EN/CCW comment on assessment:</p> <p>(If the EN/CCW officer disagrees with the conclusion of 10c, please include details of the other Competent Authorities which should be consulted).</p>	<p><i>we confirm that we concur with the Environment Agency water assessment of the proposed scheme</i></p>	
<p>14. Name of EN/CCW Officer:</p>	<p><i>Ian Hughes</i></p>	<p>Date:</p> <p><i>11/11/04</i></p>
<p>IF THE PROPOSAL IS LIKELY TO HAVE A SIGNIFICANT EFFECT AN APPROPRIATE ASSESSMENT WILL BE REQUIRED (see part B for suggested scope).</p>		

Part B - SUGGESTED SCOPE OF THE APPROPRIATE ASSESSMENT:

(see also EN and CCW Habitats Regulations Guidance Notes HRGN1 and OH 99/01)

(Water Resources, please see note in Appendix 4 of the guidance for assessing new permissions)

(add details to following framework)

- Other competent authorities involved (the scope of the appropriate assessment must be agreed with them).
- Characterise the site in relation to the qualifying features and their conservation objectives;
 - Existing information
 - Additional surveys
 - Management/ unauthorised impacts
- Detailed description of plan/project
- Assess each likely impact on the interest features;
 - Compare with historical data
 - predict impacts
 - compare with impact from management/unauthorised activities
- Determine the extent to which each possible impact can be avoided.
- What alternative solutions could be considered?

15. EN/CCW Comment on scope of appropriate assessment:

16. Name of EN/CCW Officer:

Date:



**CYNGOR CEFN GWLAD CYMRU
COUNTRYSIDE COUNCIL FOR WALES**

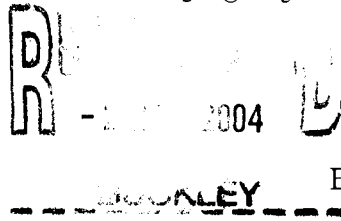
CADEIRYDD/CHAIRMAN: JOHN LLOYD JONES OBE
Anfonwch eich ateb at/Please reply to:

Ian Hughes
Ffôn/Tel: 01352 706600 Ffacs/Fax: 01352 752346
Ebost/Email: ian.hughes@ccw.gov.uk

PRIF WEITHREDWR/CHIEF EXECUTIVE: ROGER THOMAS

Rhanbarth y Gogledd - Swyddfa Yr Wyddgrug
North Region - Mold Office
Glan y Nant, Uned 19 / Glan y Nant, Unit 19
Parc Busnes Yr Wyddgrug / Mold Business Park
Ffordd Wrexham / Wrexham Road
Yr Wyddgrug / MOLD
Sir Y Fflint / Flintshire CH7 1XP

Mr Kelvin Graham
Environment Agency Wales
Chester Road
BUCKLEY
Flintshire
CH7 3AJ



Ein cyf/Our ref: IH/MMJ/SJ15

Eich cyf/Your ref: DR/RP/CM0001201
/CM0001202

1 November 2004

For the attention of Sarah Middleton

Dear Mr Graham

WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995): FORMAL CONSULTATION. APPLICATION FOR CONSENT TO DISCHARGE SEWAGE EFFLUENT BY DWR CYMRU CYF FROM LLANARMON YN IAL WASTEWATER TREATMENT WORKS, LLANARMON YN IAL, NR MOLD, FLINTSHIRE, CH8 8RF

APPLICATION NO: CM0001201/CM0001202

The Countryside Council for Wales (CCW) acknowledges receipt of the discharge consent application and appendix 11, dated 20 October 2004.

We have amended Part A section 6 to reflect that it is the Dee Estuary which is the RAMSAR site, and hope that this amendment is acceptable.

Please find enclosed a signed copy of the fore mentioned appendix 11.

Yours sincerely

**Ian Hughes
Conservation Officer
Flintshire and Wrexham**

Enc



Llywodraeth Cynulliad Cymru
Welsh Assembly Government

CORFF NODDIEDIG / SPONSORED BODY

**Gofalu am natur Cymru - ar y tir ac yn y môr
Caring for our natural heritage - on land and in the sea**

Prif Swyddfa/Headquarters

AES-Y-FFYNNON, PENRHOSGARNEDD, BANGOR, GWYNEDD LL57 2DW FFÔN/TEL: 01248 385500 FFACS/FAX: 01248 355782
<http://www.ccw.gov.uk>

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APPENDIX 11

Form HR01: Proforma for new applications within Stage 2 criteria.



ENVIRONMENT
AGENCY

Environment Agency Record of Assessment of Likely Significant Effect On A European Site (Stage 2)

The new application for a *<please fill in details>* detailed below is within the Stage 1 criteria of *<please fill in details>*, and in order to progress the application a Stage 2 assessment and consultation with EN/CCW is required.

PART A

To be completed by relevant technical/project officer in consultation with Conservation/Ecology section and EN/CCW

1. Type of permission/activity:	Water Resources Act (1991) (as amended by Environment Act 1995) consent to discharge
2. Agency reference no:	CM0001201
3. National Grid reference:	SJ 19022 55938
4. Site reference:	Llanarmon yn Ial Wastwater Treatment Works Llanarmon yn Ial Nr Mold Denbighshire
5. Brief description of proposal:	Application to discharge up to 294.9m ³ /day of biologically treated sewage effluent to the River Alyn.
6. European site name(s) and status:	Alyn Valley Woods cSAC: UK0030078 River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid cSAC: UK0030252 Dee Estuary SPA: UK9013011 Dee Estuary cSAC: UK9013011 Dee Estuary River Dee RAMSAR features: 7UK020

<p>7. List of interest features:</p>	<p>1.1 Fens and wet habitats (not sensitive to acidification)</p> <p>1.3 Riverine habitats and running waters</p> <p>1.6 Dry woodlands and scrub</p> <p>1.7 Dry Grassland</p> <p>1.10 Coastal Habitats</p> <p>1.11 Coastal habitats (sensitive to abstraction)</p> <p>1.12 Estuarine and intertidal habitats</p> <p>2.1 Vascular plants of aquatic habitats</p> <p>2.4 Mosses and liverworts</p> <p>2.5 Anadromous fish</p> <p>2.6 Non-migratory fish and invertebrates of rivers</p> <p>2.9 Mammals of riverine habitats</p> <p>2.10 Amphibia</p> <p>3.4 Birds of lowland wet grasslands</p> <p>3.6 Birds of lowland freshwaters and their margins</p> <p>3.7 Birds of farmland</p> <p>3.8 Birds of coastal habitats</p> <p>3.9 Birds of estuarine habitats</p> <p>3.10 Birds of open sea and offshore rocks</p>
<p>8. Is the proposal directly connected with or necessary to the management of the site for nature conservation?</p>	<p>No</p>
<p>9.</p>	<p>What potential hazards are likely to affect the interest features? (Refer to relevant sensitivity matrix and only include those to which the interest features are sensitive). Are the interest features potentially exposed to the hazard?</p>

Sensitive Interest Feature:	Potential hazard:	Potential exposure to hazard and mechanism of effect/impact if known:
-----------------------------	-------------------	---

<u>Alyn Valley Woods cSAC features:</u>		
1.1 Fens and wet habitats (not sensitive to acidification) <ul style="list-style-type: none"> Residual alluvial forests 	A, b, c, e, f, h	
1.6 Dry woodlands and scrub; <ul style="list-style-type: none"> <i>Tilo-Acerion</i> ravine woodlands 	N/A	
1.7 Dry Grassland: <ul style="list-style-type: none"> Semi-natural dry grasslands and scrubland facies on calcareous substrates (<i>Festuco-Brometalia</i>) 	N/A	
<u>River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid cSAC features:</u>		
1.3 Riverine habitats and running waters: <ul style="list-style-type: none"> Floating vegetation of <i>Ranunculus</i> of plain and submountainous rivers 	A, b, c, d, e, f, g, h	
2.1 Vascular plants of aquatic habitats: <ul style="list-style-type: none"> Floating water plantain 	A, b, c, d, e, f, g, h	
2.5 Anadromous fish: <ul style="list-style-type: none"> Atlantic Salmon River Lamprey Sea Lamprey 	A, b, c, d, e, g, h,	
2.6 Non-migratory fish and invertebrates of rivers: <ul style="list-style-type: none"> Brook Lamprey Bullhead 	A, b, c, d, e, g, h,	
2.9 Mammals of riverine habitats: <ul style="list-style-type: none"> Otter 	A, b, c, d, e, g, h,	
<u>Dee Estuary SPA features</u>		
3.4 Birds of lowland wet grasslands: <ul style="list-style-type: none"> Bar-tailed Godwit Black-tailed Godwit Curlew Dunlin Grey Plover Knot Oystercatcher Redshank Teal 	A	

3.6 Birds of lowland freshwaters and their margins: <ul style="list-style-type: none"> ▪ Common Tern ▪ Pintail ▪ Shelduck ▪ Teal 	A, b, c, d, e, g	
3.7 Birds of Farmland: <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Oystercatcher ▪ Redshank 	N/A	
3.8 Birds of coastal habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Black-tailed Godwit ▪ Common Tern ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Little Tern ▪ Oystercatcher ▪ Pintail ▪ Redshank ▪ Sandwich Tern ▪ Shelduck ▪ Teal 	A, b, d, e, g	
3.9 Birds of estuarine habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Black-tailed Godwit ▪ Common Tern ▪ Curlew ▪ Dunlin ▪ Grey Plover ▪ Knot ▪ Little Tern ▪ Oystercatcher ▪ Pintail ▪ Redshank ▪ Sandwich Tern ▪ Shelduck ▪ Teal 	A, b, d, e, f, g, h	

3.10 Birds of open sea and offshore rocks: <ul style="list-style-type: none"> Common Tern Little Tern Sandwich Tern 	A	
<u>Dee Estuary cSAC features:</u>		
1.10 Coastal Habitats <ul style="list-style-type: none"> Embryonic shifting dunes Fixed dunes with herbaceous vegetation (grey dunes) Shifting dunes along the shoreline with <i>Ammophila arenaria</i> (white dunes) 	N/A	
1.11 Coastal habitats (sensitive to abstraction) <ul style="list-style-type: none"> Humid dune slacks Vegetated sea cliffs of the Atlantic and Baltic coasts 	A, b, d, f, g, h	
1.12 Estuarine and intertidal habitats: <ul style="list-style-type: none"> Estuaries Mudflats and sandflats not covered by seawater at low tide Atlantic salt meadows <i>Salicornia</i> and other annuals colonising mud and sand 	A, b, d, e, f, g, h	
2.4 Mosses and liverworts <ul style="list-style-type: none"> Petal Wort 	N/A	
2.5 Anadromous fish: <ul style="list-style-type: none"> River Lamprey Sea Lamprey 	A, b, c, d, e, g, h	
<u>Dee Estuary RAMSAR features:</u>		
2.10 Amphibia <ul style="list-style-type: none"> Natterjack toad 	A, b, c, d, e, g, h	

3.9 Birds of estuarine habitats <ul style="list-style-type: none"> ▪ Sandwich tern ▪ Common tern ▪ little tern ▪ Oyster Catcher ▪ Grey plover ▪ Dunlin ▪ Black-tailed Godwit 	A, b, d, e, f, g, h	
3.8 Birds of coastal habitats <ul style="list-style-type: none"> ▪ Bar-tailed Godwit ▪ Shelduck ▪ Pintail ▪ Curlew ▪ Redshank 	A, b, d, e, g	
Key: - A – Toxic contamination B – Nutrient enrichment C – pH changes D – Changes in salinity regime E – Changes in thermal regime F – Physical damage G – Turbidity H - Siltation		

10. Is the potential scale or magnitude of any effect likely to be significant?	
a) Alone? (explain conclusion, e.g. in relation to de minimus criteria)	No – see point 10c
b) In combination with other plans or projects?	No - see point 10c

<p>c) In combination with plans/projects of other Competent Authorities?</p>	<p>As a result of its risk assessment, the Agency can conclude that this application could not act in combination with plans/projects of other competent authorities. Consultation has not been necessary and our conclusion is that this project could not act alone or in combination with any other plans or projects.</p> <p>AMP 3 is a national scheme undertaken by Welsh Water designed to improve water quality The scheme of improvements taking place at Llanarmon yn Ial Wastewater Treatment Works has been assessed as a catchment resolution, incorporating improvements to the Llanarmon storm discharge.</p> <p>The catchment is fixed residential in nature with no trade inputs.</p>	
<p>11. Conclusion: Is the proposal likely to have a significant effect 'alone or in combination' on a European site?</p>	<p>Application to discharge up to 294.9m³/day of biologically treated sewage effluent to the River Alyn.</p> <p>Treatment at the works will consist of a macerator (to macerate the raw sewage), a primary settlement tank, and biological filtration via nitrifying filters.</p> <p>The installation of a new humus settlement tank is designed to separate suspended solids from the biologically treated effluent and prevent them from entering the watercourse. Re-circulation on the nitrifying filters should sustain the biological treatment process by keeping the media surface constantly wetted. This will help to avoid any problems of solid build up by promoting improved settlement of the humus solids.</p> <p>Extensive consultation and modelling has taken place between Dŵr Cymru Welsh Water and the Environment Agency to ensure the WwTW meets AMP design guidelines. It is anticipated that this discharge will have no detrimental effect upon the surrounding habitats as it represents essential improvements to the current works, and will improve the quality of the final effluent discharged.</p>	
<p>12. Name of EA Officer:</p>	<p>Sarah Middleton</p>	<p>Date: 19/10/04</p>

<p>13. EN/CCW comment on assessment:</p> <p>(If the EN/CCW officer disagrees with the conclusion of 10c, please include details of the other Competent Authorities which should be consulted).</p>	<p><i>we confirm that we concur with the Environment Agency water assessment of the proposed scheme</i></p>	
<p>14. Name of EN/CCW Officer:</p>	<p><i>Ian Hughes</i></p>	<p>Date:</p> <p><i>11/11/04</i></p>
<p>IF THE PROPOSAL IS LIKELY TO HAVE A SIGNIFICANT EFFECT AN APPROPRIATE ASSESSMENT WILL BE REQUIRED (see part B for suggested scope).</p>		

Part B - SUGGESTED SCOPE OF THE APPROPRIATE ASSESSMENT:

(see also EN and CCW Habitats Regulations Guidance Notes HRGN1 and OH 99/01)

(Water Resources, please see note in Appendix 4 of the guidance for assessing new permissions)

(add details to following framework)

- Other competent authorities involved (the scope of the appropriate assessment must be agreed with them).
- Characterise the site in relation to the qualifying features and their conservation objectives;
 - Existing information
 - Additional surveys
 - Management/ unauthorised impacts
- Detailed description of plan/project
- Assess each likely impact on the interest features;
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- Determine the extent to which each possible impact can be avoided.
- What alternative solutions could be considered?

15. EN/CCW Comment on scope of appropriate assessment:

16. Name of EN/CCW Officer:

Date:

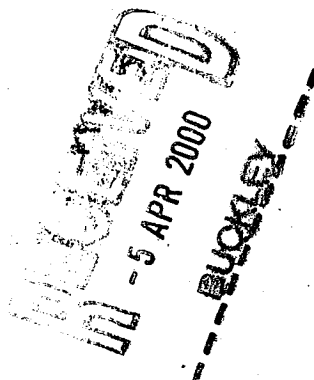
Your ref.: various
Our ref.: N/WQConsents/DSAnnex

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**

Asiantaeth yr Amgylchedd Cymru
Plas-yr-Afon, Parc Busnes Llancirwg, Llancirwg, Caerdydd, CF3 0EY
Ffon: 029 20770088 Ffacs: 029 20798555

Environment Agency Wales
Rivers House, St Mellons Business Park, St Mellons, Cardiff, CF3 0EY

CONSENT NO.	CM 0001201
SCHEDULE NO.	

ANNEX

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

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

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



DŴR CYMRU
WELSH WATER

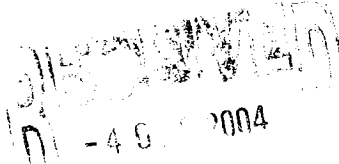
Blwch Post 60
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Mr Iwan Williams
Consents Regulation Manager
Environment Agency
Chester Road
Buckley
Flintshire
CH7 4AJ



Dyddiad/Date:
30 September 2004

Ymholiadau/Enquiries:
JP Edwards
Tel: 01244 661628

Ein Cyf./Our Ref:

Eich Cyf./Your Ref:

Dear Iwan

Re: Request for Date of Effect to be 31 December 2005

Following our conversation today I write to confirm that DCWW wish for the 'Date of Effect' to be changed on the applications from 31 March 2005 to 31 December 2005 for the following schemes:

Llangoed (CG0084901)
Nantglyn (CM0077901)
Llanarmon Yn Ial (CM0001201/CM0001202)
Bala (CM000150/CG0428901)
Llanfair PG (CG0081101/CG0081201)

Maentwrog and Blaenau Ffestiniog have been submitted with the relevant date of effect as 31 December 2005.

Sorry for any inconvenience

Yours sincerely

JP EDWARDS
Area Regulation Scientist

Glas Cymru Cyfyngedig

We welcome correspondence in Welsh and English
Rydym yn croeso awgrymion yn y Gymraeg neu yn Saesneg

Dŵr Cymru Cyf. a limited company registered in
Wales no. 2366777 Registered office: Pentwyn Road,
Nelson, Treherbert, Mid Glamorgan CF46 6LY

Welsh Water is owned by Glas Cymru - a not-for-profit company
Mae Dŵr Cymru yn eiddo i Glas Cymru - cwmni heb ywngwneud elw

Dŵr Cymru Cyf. cwmni cyfyngedig wedi'i gofrestru yng
Nghymru rhif 2366777. Swyddfa gofrestredig: Heol Pentwyn,
Nelson, Treherbert, Morgannwg Ganol CF46 6LY



ASiantaeth YR
AMGYLCHEDD
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)

Regional/Area Address: Discharge Consent Applications Environment Agency Wales Chester Road Buckley Flintshire CH7 3AJ	<i>Official Use Only</i> <i>Dist/Area Ref:</i> <i>Application No.</i> CM0001201 <i>Date Received:</i> 24/09/2004 <i>Fee Received:</i> 24/09/2004
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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.

Llanarmon yn Ial WwTW
Llanarmon yn Ial
Nr Mold
Denbighshire

Post Code:

CH7 4QY

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

294.9 m³/day

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

Soc "A" flow to the works is 413 m³.d⁻¹ of which 294.9 m³.d⁻¹ (6DWF) will pass to treatment. 6DWF of 294.9 m³.d⁻¹ is based on a resident population of 256 with a per capita consumption of 180 l.h⁻¹.d⁻¹ and infiltration of 18.4 m³.d⁻¹ (0.21 l.s⁻¹)

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

☒

4. Borehole

☐

7. Sub-Irrigation System

☐

2. Channel

☐

5. Well

☐

8. Combination of 6 & 7

☐

3. Culvert

☐

6. Soakaway

☐

9. Other (please specify below)

☐

150 mm dia pipe

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

S	J	1	9	0	2	2	5	5	9	3	8
---	---	---	---	---	---	---	---	---	---	---	---

(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	J	1	9	0	2	0	5	5	9	3	8
---	---	---	---	---	---	---	---	---	---	---	---

(please indicate on accompanying plans)

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

Electromagnetic Flow Meter downstream of actuated penstock in flow to treatment channel

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 ☐

60 m³ primary settlement tank followed by 2 stage plastic media biofilter followed by 2 nitrifying stone media filters.

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

2.6 a) On what date do you anticipate the discharge will commence? 31/03/2005

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)? Y/N

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

Biologically treated sewage effluent Consent No CM 0001201 dated 16th Nov 1989

b) Has any person had a Prohibition Notice serviced 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.

Denbighshire County Council

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 <i>(please specify)</i> | <input type="checkbox"/> | 10. Other <i>(please specify)</i> | <input type="checkbox"/> |

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 checked="" type="checkbox"/> | <div style="border: 1px solid black; height: 40px; width: 100%;"></div> | |

Dwr Cymru Welsh Water (DCWW)

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 Alyn

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.

(e) For sub-irrigation systems, soakaway pits, wells and boreholes, state maximum depth in metres.

(f) For boreholes, state details of lining in metres:

(i) Depth of lining

(ii) Depth of perforated lining

(iii) Depth of unperforated lining

(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)? ☐ Y/N

If yes, please give the reasons it is not practical to connect to it (eg distance, flow etc).

N/A

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 Cyf

*Pentwyn Road

*Nelson

*Treharris

*Mid Glamorgan

*

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

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 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 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 be completing section 5.2 above (see note xiv).

(* Delete as appropriate)

SIGNED: *J P Edwards* PRINT NAME: *J P Edwards*
ON BEHALF OF:DWR CYMRU CYF..... DATED: *20/9/04*

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



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 Annex 3 should also be completed).

Official Use Only
Application No.

1. Site Name.

Llanarmon yn Ial WwTW

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

Treatment consists of macerator, 60,000 litre primary settlement tank, 2 stage plastic media filter followed by 2 stone media nitrifying filters. The process will be improved with recirculation to the nitrifying filters and the provision of a new humus tank.

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). | 294.9 m ³ /d |
| b) | Dry weather flow of discharge(s). | 64.5 m ³ /d |
| c) | Average daily flow. | 80.6 m ³ /d |
| d) | Maximum rate of discharge(s) | 3.4 l/s |

4. Will there be provisions for storm/emergency discharges?

Y/N

If yes, please complete Annex 2.

5. a) Will any self monitoring take place?

Y/N

If yes, please give details.

Monitoring of final effluent by United Utilities Operational Services

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.

The works is designed to treat raw sewage from a fixed resident population of 256 which includes 2% for growth.

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

No seasonal variation in population is expected

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

The catchment area is residential with no trade inputs

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

Y/N

The works is subject to operational maintenance contract with United Utilities Operational Services

8. Does the effluent contain a trade component?

Y/N

If yes, please complete appropriate section on Annexe 3 for authorised discharges of trade effluent to the sewerage system.

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.*



ASiantaeth Yr
AMGylchedd
Environment
Agency

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.

Llanarmon yn Ial WwTW

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

Y/N

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):

150mm

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

Approx £131,000

This is for the installation of a 3.8 m diameter hopper bottomed humus settlement tank and recirculation on the nitrifying filters. These are essential improvements designed to improve final effluent quality.

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

Y/N

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) ~~Pumped~~ / Gravity

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

l/s

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: *Tick*
 Only Annexe 1 applicable for Final Effluent Consent Application

8. Please state:

Population served (head)	256
Consumption (l/head/day) default = 180	180
Infiltration (m ³ /day)	18.4
Industrial effluent flow (m ³ /day)	0
Dry Weather Flow (m ³ /day)	64.5
Soc A (l/sec)	4.8
Predicted spill frequency (per annum)	Not Applicable

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.**

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

Dyddiad/Date:

23 March 1995
Ymholiadau/Enquiries:

Ein Cyf/Our Ref:

SHL/CJW/NR6


Eich Cyf/Your Ref:

Dear Kevin

Appeals - Llanarmon-ym-Ial STW

If you review the consent as outlined in the draft document CM 0001201/M1 then Dŵr Cymru will withdraw the Appeal.

Yours sincerely


Selwyn Lewis
Consents Regulation Officer





Awdurdod Afonydd Cenedlaethol
Rhanbarth Cymru

National Rivers Authority
Welsb Region

Consent No. CM00012-01

WATER ACT 1989

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

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

On : DWR CYMRU CYFYNGEDIG

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

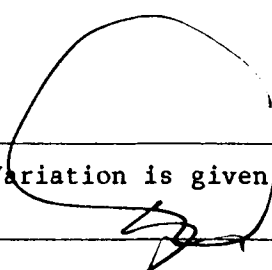
In respect of the previous Consent No: CM00012-01 Issued on: 8th October 1991

For the discharge of: Biologically Treated Sewage Effluent

From : LLANARMON YN IAL SEWAGE TREATMENT WORKS

THE CONSENT IS HEREBY VARIED AS FOLLOWS:-

1. For the purpose of this consent variation,
"Winter" shall be understood to commence on 1st October until 31st March
and
"Summer" shall be understood to commence on 1st April until 30th September
2. This Variation should be retained with Consent No. CM00012-01 dated 8th October 1991.

This Consent Variation is given on: 1st November 1991 on behalf of the
Authority by:  Divisional Scientist

Aelod Rhanbarthol o'r Bwrdd
Yr Athro Ron Edwards

Rheolwr Rhanbarth Cyffredinol
Dr John Stoner

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

Cyfreithiwr Adrannol (Gogledd)/Divisional Solicitor (Northern)
David Bathers LL.B.

Regional Board Member
Professor Ron Edwards

Regional General Manager
Dr John Stoner

Highfield, Priestley Road
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Gwynedd, LL55 1HR
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Awdurdod Afonydd Cenedlaethol
Rhanbarth Cymru

National Rivers Authority
Welsh Region

WATER ACT 1989		Consent No. CM00012-01
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Under Section 113 and Schedule 12 of the Water Act 1989 and all other enabling powers the National Rivers Authority hereby gives this

R E V I E W O F C O N S E N T Page 1 of 3

On : Dwr Cymru Cyf (The Company)
Of : Plas-y-Ffynnon, Cambrian Way, Brecon, Powys, LD3 7HP.

In respect of the previous Consent No. CM0001201 Issued on 16/11/89.

For the discharge of: Biologically Treated Sewage Effluent.

From : Llanarmon-yn-Ial Sewage Treatment Works
To : The River Alyn

CONDITIONS OF CONSENT

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

Discharging via : 150mm diameter cast iron pipe
Discharging to : River Alyn
At OS Grid Ref. : SJ 1902 5593
As shown marked : Discharge Point on the attached plan
- Adequate facilities, approved in writing by the Authority, shall be provided to enable representative samples of the discharge to be safely and conveniently obtained at any time at the outlet at Grid Ref SJ 1902 5593 as shown marked 'Sampling Point' on the attached plan.
- The volume of effluent discharged under dry weather flow conditions shall not exceed 83.5 cubic metres in any period of 24 hours.

See next page for further conditions.

Aelod Rhanbarthol o'r Bwrdd
Yr Athro Ron Edwards

Rheolwr Rhanbarth Cyffredinol
Dr John Stoner

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Regional General Manager
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Awdurdod Afonydd Cenedlaethol
Rhanbarth Cymru

National Rivers Authority
Welsb Region

WATER ACT 1989

Consent No. CM00012-01

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

C O N S E N T

Page 2 of 3

5. The maximum rate of flow of effluent discharged shall not exceed 2.3 litres per second.
6. The maximum volume of effluent discharged shall not exceed 199 cubic metres in any period of 24 hours.
7. Calibrated apparatus, approved in writing by the Authority, shall be provided and maintained in full working order, to permit the instantaneous rate of flow of effluent discharged to be measured accurately at any time.
8. The quality of the effluent discharged at all flow rates up to the maximum specified in condition 5 shall, neither be inferior to the following lower tier numerical limits, except as provided for in the Annex 1, nor to the upper tier limits.
 - a) The lower tier 5 day Biochemical Oxygen Demand (BOD ATU), determined at 20 degrees Celsius after the suppression of nitrification using allyl thiourea, shall not exceed 40 milligrammes of Oxygen per litre of sample. The upper tier BOD(ATU) shall not exceed 80 milligrammes of Oxygen per litre of sample.
 - b) The lower tier Suspended Solids concentration (dried at 105 degrees Celsius) shall not exceed 100 milligrammes per litre. The upper tier Suspended Solids concentration shall not exceed 200 milligrammes per litre.
 - c) The lower tier Ammoniacal Nitrogen concentration, expressed as Nitrogen, shall not exceed 25 milligrammes per litre in winter and 15 milligrammes per litre in summer. The upper tier Ammoniacal Nitrogen concentration shall not exceed 50 milligrammes per litre in winter and 30 milligrammes per litre in summer.

See next page for further conditions.

Aelod Rhanbarthol o'r Bwrdd
Yr Athro Ron Edwards

Rheolwr Rhanbarth Cyffredinol
Dr John Stoner

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National Rivers Authority
Welsh Region

WATER ACT 1989

Consent No. CM00012-01

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

C O N S E N T

Page 3 of 3

9. The Authority shall be informed in writing as soon as reasonably practicable of any information received to the effect that there has been or is likely to be discharged into the sewerage system connected to the works, a significant increase in the quantity of any substances listed in the attached Annex 2.
10. The Company shall inform the Authority of the date when the new works process commissioning will commence giving at least one months notice of this date.
11. This Consent shall come into operation one calendar month after the commissioning in 10 above is completed.
12. During the period of the commissioning the Company shall discuss and agree with the Authority the mode of operation to ensure that the pollution load discharged to the river during the period is minimised.
13. Any previous Consents issued in respect of this effluent shall be revoked as from the date this Consent becomes operative.
14. For the purposes of this consent dry weather flow shall mean the average daily flow to the treatment works during seven consecutive days without rain (excluding a period which includes public holidays) following seven days during which the rainfall did not exceed 0.25mm on the day.

NOTE: For the purposes of this Consent 'winter' shall be understood to commence on 1st October and finish on 31st March.

This Consent is given on: 8th October, 1991, on behalf of the
Authority by: Divisional Scientist

During the period ending with the: 7th October, 1993, the terms of this
Consent will not be altered without the written agreement of the person
making this discharge

Aelod Rhanbarthol o'r Bwrdd
Yr Athro Ron Edwards

Rheolwr Rhanbarth Cyffredinol
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*Awdurdod Afonydd Cenedlaethol
Rhanbarth Cymru*

*National Rivers Authority
Welsb Region*

ANNEX

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

A sample shall only be considered as having failed in relation to the particular determinand(s) for which the specified quality limit is exceeded. A sample shall be considered to be satisfactory in relation to other determinands when the concentration(s) of which are equal to or lower than the specified limit.

TABLE

<u>Column 1</u> Series of samples taken in 12 month period	<u>Column 2</u> Maximum number of samples for given determinand permitted to exceed limit
4 - 7	1
8 - 16	2
17 - 28	3
29 - 40	4
41 - 53	5
54 - 67	6
68 - 81	7
82 - 95	8
96 - 110	9
111 - 125	10
126 - 140	11
141 - 155	12
156 - 171	13
172 - 187	14
188 - 203	15
204 - 219	16
220 - 235	17
236 - 251	18
252 - 268	19
269 - 284	20
285 - 300	21
301 - 317	22
318 - 334	23
335 - 350	24
351 - 365	25

Codeirydd Rhanbarthol
Yr Athro Ron Edwards
Rheolwr Rhanbarth Cyffredinol
Dr John Stoner
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Regional Chairman
Professor Ron Edwards
Regional General Manager
Dr John Stoner
Highfield, Priestley Road
Caernarfon
Gwynedd, LL55 1HR
Tel: Caernarfon (0286) 672247
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ANNEX 2

SUBSTANCE

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



BP

N

WEPD/F/4/48/D7

WO REF WEP/WS 9111/8
WWA REF CM 0001201

WATER ACT 1989

**DIRECTION TO THE NATIONAL RIVERS AUTHORITY ("THE AUTHORITY")
TO GRANT A CONSENT TO THE DWR CYMRU CYFYNGEDIG ("THE COMPANY")**

WHEREAS:-

- (a) the Welsh Water Authority submitted an application to the Secretary of State dated 24 March 1989 [as supplemented on] in accordance with section 34 of the Control of Pollution Act 1974, as modified by the Control of Pollution (Discharges by Authorities) Regulations 1984, to discharge sewage effluent into the River Alyn from the Llanarmon-yn-Ial Sewage Treatment Works at National Grid Reference SJ 1900 5588 ("the proposed discharge");
- (b) that application is deemed by virtue of paragraph 25(2)(a) of Schedule 26 to the Water Act 1989 to have been made by the Company to the Authority, and the Secretary of State has determined that paragraph 25(3) of that Schedule is to apply to that application;

NOW THEREFORE the Secretary of State, in exercise of his powers under paragraph 4(7) and 6(4) of Schedule 12 to the Water Act 1989, hereby directs the Authority:-

- 1. to grant a consent to the Company for the proposed discharge subject to the conditions set out in the Schedule hereto; and
- 2. to revoke any previous consents in respect of the proposed discharge.

Signed on behalf of
the Secretary of State
for Wales

Alyn H H Jones

13 / 11 / 1989

WATER ACT 1989

**CONSENT TO DISCHARGE BIOLOGICALLY TREATED SEWAGE EFFLUENT FROM THE
LLANARMON-YN-IAL SEWAGE TREATMENT WORKS INTO THE RIVER ALYN**

WHEREAS:-

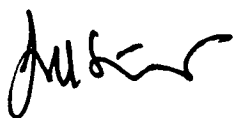
- (a) the Welsh Water Authority submitted an application to the Secretary of State dated 24 March 1989, [as supplemented on] in accordance with section 34 of the Control of Pollution Act 1974, as modified by the Control of Pollution (Discharges by Authorities) Regulations 1984, to discharge sewage effluent into the River Alyn at the Llanarmon-yn-Ial Sewage Treatment Works, National Grid Reference SJ 1900 5588 ("the proposed discharge");
- (b) that application is deemed by virtue of paragraph 25(2)(a) of Schedule 26 to the Water Act 1989 to have been made by the Dwr Cymru Cyfyngedig ("the Company") to the National Rivers Authority ("the Authority"), and the Secretary of State has determined that paragraph 25(3) of that Schedule is to apply to that application;
- (c) the Secretary of State, in exercise of his powers under paragraphs 4(7) and 6(4) of Schedule 12 to the Water Act 1989, has directed the Authority to ~~issue the~~ following consent for the proposed discharge and to revoke all ~~previous~~ consents relating to that discharge.

NOW THEREFORE the Authority, in exercise of its powers under paragraphs 2 and 6 of Schedule 12 to the Water Act 1989:-

- (A) grants a consent to the proposed discharge subject to the conditions set out in the Schedule hereto; and
- (B) revokes all existing consents relating to the proposed discharge.

The period during which no notice by virtue of paragraph 6(2) or (4)(c) of Schedule 12 to the Water Act 1989 shall be served in respect of the Consent shall be the period ending on the date two years from the date of this Consent, or the date specified in paragraph 7 of the Schedule hereto whichever date shall be later or such other date as the person who proposes to make or makes the discharge agrees.

Signed on behalf of the Authority

A handwritten signature in black ink, appearing to be 'J. M. G.', written below the text 'Signed on behalf of the Authority'.

16 November

1989

SCHEDULE

Conditions prescribed for the discharge of biologically treated sewage effluent to the River Alyn at the Llanarmon-yn-Ial Sewage Treatment Works.

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

1. The nature of the effluent shall be biologically treated sewage effluent.
2. Adequate facilities shall be provided for the Authority's authorised representatives so as to enable samples of the effluent to be conveniently obtained at grid reference SJ 1900 5588.
3. The volume of effluent under dry weather conditions shall not exceed 36 cubic metres in any period of 24 hours.
4. The maximum rate of flow discharged to the river at any time shall not exceed 1.25 litres per second. All sewage flow rates up to the maximum quoted above shall receive biological treatment.
5. The lower tier limit in Paragraph 6 and the limit in Paragraph 10, for any Determinand may be exceeded where, in any series of samples of treated sewage effluent taken (whether before or after the grant of this consent) by the Authority in the period of twelve months ending on the date of the discharge, as listed in column (1) of the table at Annex A to this schedule, no more than the relevant number of samples, as listed in column (2) of the said table, exceeds the applicable limit for that determinand at the time when a sample is taken. That is, in respect of samples taken after the grant of this consent, the lower tier limit set out in Paragraph 6 or the limit in Paragraph 10 as appropriate; and in respect of samples taken before the grant of this consent, the corresponding provision of the consent then in force. The table at Annex A shall not be applied to the upper tier concentrations quoted in Paragraph 6. Such limits shall not be exceeded at any time.

6. The quality of the effluent discharged to the river at all flow rates up to the maximum quoted in 4 above, shall not be inferior to the following lower tier numerical quality limits (determinands) save as provided for in Paragraph 5 nor to the upper tier limits.

6a. The lower tier suspended solids concentration (dried at 105 degrees celsius) shall not exceed 150 milligrams per litre. The upper tier concentration limit shall not exceed 300 milligrams per litre.

6b. The lower tier BOD (Biochemical Oxygen Demand) concentration determined in the presence of 0.5 milligrams per litre of allyl-thiourea shall not exceed 95 milligrams per litre. The upper tier concentration limit shall not exceed 200 milligrams per litre.

6c. The lower tier ammoniacal nitrogen concentration expressed as nitrogen shall not exceed 41 milligrams per litre in winter and shall not exceed 30 milligrams per litre in summer+. The upper tier concentration limit shall not exceed 82 milligrams per litre in winter and shall not exceed 60 milligrams per litre in summer.

7. The flow restrictions quoted in Paragraphs 3 and 4 and the parameter concentrations quoted in Paragraphs 6(a), 6(b) and 6(c) above shall remain in force until such time as the new works envisaged in the reconstruction/ remedial programme have been fully commissioned which shall be on or before the 30 September 1992. After this date the following conditions shall apply.

8. The volume of effluent under dry weather conditions shall not exceed 36 cubic metres in any period of 24 hours.

9. The maximum rate of flow discharged to the river at any time shall not exceed 1.25 litres per second. All sewage flow rates up to the maximum quoted above shall receive biological treatment.

10. The quality of the effluent discharged to the river at all flow rates up to the maximum, quoted in Paragraph 9 above, shall not be inferior to the following numerical quality limits (determinands) save as provided for in Paragraph 5.

10a. The suspended solids concentration (dried at 105 degrees celcius) shall not exceed 110 milligrams per litre.

10b. The BOD (Biochemical Oxygen Demand) concentration determined in the presence of 0.5 milligrams per litre of allyl-thiourea shall not exceed 75 milligrams per litre.

10c. The ammoniacal nitrogen concentration expressed as nitrogen shall not exceed 25 milligrams per litre in winter and shall not exceed 15 milligrams per litre in summer+.

11. The Company shall inform the Authority:-

(a) of the date of the new works construction commencement and

(b) of the date when the new works process commissioning will commence if appropriate.

At least one months notice shall be given to the Authority of both the above dates.

During these notice periods the Company shall discuss and agree with the Authority the modus operandi to ensure that the pollution loads discharged to the river during these periods are minimised.

NOTE: For the purposes of this consent "winter" shall be understood to commence on 31 October and finish on 31 March and "summer" to commence on 1 April and finish on 30 October.

TABLE

Column 1	Column 2
Series of samples taken in any year	Maximum number of samples for given determinand permitted to exceed limit
4-7	1
8-16	2
17-28	3
29-40	4
41-53	5
54-67	6
68-81	7
82-95	8
96-110	9
111-125	10
126-140	11
141-155	12
156-171	13
172-187	14
188-203	15
204-219	16
220-235	17
236-251	18
252-268	19
269-284	20
285-300	21
301-317	22
318-334	23
335-350	24
351-365	25

**WATER ACT 1989
DIRECTION TO THE NATIONAL RIVERS AUTHORITY
TO MAKE TEMPORARY MODIFICATIONS TO CONSENTS**

WHEREAS:-

- a. the WELSH Water Authority submitted applications to the Secretary of State for Wales on the dates set out in column 1 of the first Schedule hereto in accordance with regulation 2 of the Control of Pollution (Discharges by Authorities) Regulations 1984, for consent to discharge sewage effluent from the sewage treatment works referred to in column 2 of that Schedule at the locations referred to in column 3 thereof ("the proposed discharges");
- b. there are existing consents to discharge sewage effluent from those works at those locations, which are set out in column 4 of the Schedule hereto ("the existing consents");
- c. those applications are deemed by virtue of paragraph 25(2) (a) of Schedule 26 to the Water Act 1989 to have been made by DWR CYMRU CYFYNGEDIG ("the Company") to the National Rivers Authority ("the Authority").

NOW THEREFORE the Secretary of State, in exercise of his powers under paragraph 25(4) (c) and 25(5) of Schedule 26 to the Water Act 1989, hereby directs the Authority to make such modifications to the conditions of the existing consents as are set out in the documents annexed hereto.

Alun H. Jones

Signed on behalf of the
Secretary of State for Wales
20th OCTOBER 1989

NATIONAL RIVERS AUTHORITY				
Letter No.				
File Ref.				
REC'D 23 OCT 1989				
PASSED TO	MAN.	RM	ADMIN & Q.	FD
Q.				
CIRC.	FIN.	I.T.	LEGAL PERS.	PLAN.
FILE				
OFFICER	SIGNED		ANSWERED DATE	

**WATER ACT 1989
TEMPORARY MODIFICATIONS TO CONSENTS**

WHEREAS:-

- a. the WELSH Water Authority submitted applications to the Secretary of State for Wales on the dates set out in column 1 of the first Schedule hereto in accordance with regulation 2 of the Control of Pollution (Discharges by Authorities) Regulations 1984, for consent to discharge sewage effluent from the sewage treatment works referred to in column 2 of the Schedule at the locations referred to in column 3 thereof ("the proposed discharges");
- b. there are existing consents to discharge sewage effluent from those works at those locations which are set out in column 4 of the first Schedule hereto ("the existing consents");
- c. those applications are deemed by virtue of paragraph 25(2) (a) of Schedule 26 to the Water Act 1989 to have been made by DWR CYMRU CYFYNGEDIG ("the Company") to the National Rivers Authority ("the Authority") and the Secretary of State has determined that paragraph 25(3) of that Schedule is to apply to those applications.
- d. the Secretary of State, in exercise of his powers under paragraph 25(4) (c) and 25(5) of Schedule 26 to the Water Act 1989, has directed the Authority to make temporary modifications to the conditions of the existing consents.

NOW THEREFORE the Authority hereby makes such modifications to the conditions of the existing consents as are set out in the second Schedule, and in columns 5, 6, 7 and 8 of the first Schedule, hereto. These modifications shall continue to have effect in relation to each application until the disposal by the Secretary of State of the application.


Signed on behalf of the Authority 25/10/1989

SCHEDULE 1

COL 1 DATE OF APPLICATION	COL 2 NAME OF SEWAGE TREATMENT WORKS	COL 3 GRID REF OF DISCHARGE	COL 4 DATE OF EXISTING CONSENT	COL 5 9428 DRY WEATHER FLOW	COL 6 0135 SUSPENDED SOLIDS	COL 7 0085 BIOCHEMICAL OXYGEN DEMAND	COL 8 011 AMMONIACAL NITROGEN
24/03/89	CE 0102 - 01 Aberdaron +	SH 1728 2648	20.11.82	98	110	70	-
24/03/89	CG 006990 Bethesda *	SH 6125 6752	17.12.82	1,160	150	100	-
24/03/89	CE 00886 - 01 Bettws-yn-Rhos *	SH 9071 7375	28. 1.82	55	60	35	-
24/03/89	Clyne	SN 7979 0040	17.10.81	73	150	150	-
24/03/89	CG 00012 - 01 Llanarmon- Yn Ial *	SJ 1900 5588	26. 4.82	36	150	95	30
24/03/89	CG 01142 - 01 Llanbrynmair	SH 8934 0255	30. 9.83	68	150	150	-
24/03/89	Llanddewi Brefi	SN 6571 5516	12.10.82	127.3	50	33	-
24/03/89	Llanfair Clydogau	SN 6218 5125	17.10.81	17.7	120	165	-
24/03/89	CG 00787 - 01 Llanfrothen *	SH 6058 4160	19.11.81	57	90	46	-
24/03/89	Llanybri	SN 3310 1286	22. 1.83	31	70	47	50
24/03/89	Llanybydder	SN 5156 4317	12.10.82	664.3	100	100	50
24/03/89	Llanyre	SN 0520 6260	30. 6.84	80	150	150	50
24/03/89	Llyswen Village	SO 1353 3812	30. 6.84	69	440	190	-
24/03/89	Presteigne	SO 3223 6437	29. 8.81	470	80	38	50

SCHEDULE 2

The following condition shall be substituted for any condition in the existing consent which relates to the volume of treated sewage effluent (but not settled storm sewage) discharged under dry weather conditions, or which restricts or prescribes the content of treated sewage effluent (but not settled storm sewage) by reference to any of the following parameters:

- a. suspended solids;
- b. biochemical oxygen demand;
- c. ammoniacal nitrogen;

where the number of cubic metres or milligrams per litre shall in each case be as set out in columns 5, 6, 7 and 8 respectively of Schedule 1.

X. VOLUME OF EFFLUENT

The volume of treated sewage effluent discharged under dry weather conditions shall not exceed [] cubic metres in any period of 24 hours.

Y. COMPOSITION OF EFFLUENT

1. Subject to paragraph Y.2 below, no sample of the treated sewage effluent taken by the Authority shall contain more than:

- a. [] milligrams per litre of suspended solids (measured after drying at 105 degrees Celsius);
- b. [] milligrams per litre of biochemical oxygen demand (determined in the presence of 0.5 milligrams per litre of allyl-thiourea after 5 days at 20 degrees Celsius);
- c. [] milligrams per litre of ammoniacal nitrogen expressed as nitrogen.

2. The limit for any of the determinands set out in paragraph Y.1 above may be exceeded where, in any series of samples of treated sewage effluent taken (whether before or after the grant of this consent) by the Authority in the period of twelve months ending on the date of the discharge, as listed in column (1) of the table at Annex A hereto, no more than the relevant number of samples, as listed in column (2) of the said table, exceeds the applicable limit for that determinant at the time when a sample is taken. That is, in respect of samples taken after the grant of this consent, the limit set out in paragraph Y.1 and in respect of samples taken before the grant of this consent, the corresponding provision of the consent then in force.

ANNEX A

TABLE

(1)	(2)
Series of samples taken in any year	Maximum number of samples for given determinand permitted to exceed limit
4-7	1
8-16	2
17-28	3
29-40	4
41-53	5
54-67	6
68-81	7
82-95	8
96-110	9
111-125	10
126-140	11
141-155	12
156-171	13
172-187	14
188-203	15
204-219	16
220-235	17
236-251	18
252-268	19
269-284	20
285-300	21
301-317	22
318-334	23
335-350	24
351-365	25

CONSENT VARIATION

RIVERS (CONTROL OF POLLUTION) ACTS 1951-1961

THE WATER AUTHORITIES (CONTROL OF DISCHARGES) ORDER 1978

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

26. APRIL..... 1982 YN-IAL

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

CONDITIONS

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

	Milligrams per Litre	
	Summer	Winter
	(15 April-15 October)	(16 October-14 April)
Biochemical Oxygen Demand (+ ATU) over 5 days at 20°C	75	75
Suspended Solids dried at 105°C;	150	150
Ammoniacal ammonia expressed as nitrogen	15	25
Dry Weather Flow	36 litres per second or ... metres cubed per day.	

This variation takes effect from the 30. January 1985.

This notice should be retained with the consent dated 26. APRIL 1982.

Lyne Roberts

WEP Division
Welsh Office

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

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

To :

WELSH WATER AUTHORITY

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

LLANARMON-YN-IAL SEWAGE TREATMENT WORKS

via an existing outlet and subject hitherto to a previous consent as specified below.

THE EXISTING OUTLET is to : the River Alyn

at National Grid Reference : SJ 1900 5588

and has been shown marked : Discharge Point

on the attached Plan, No. : RW/0696/1/1

THE PREVIOUS CONSENT was : the Notice

Reference No. - 12

granted on : 31st January 1966

by : Dee and Clwyd River Division

to : Ruthin Rural District Council

The Authority submitted this Notification of Variation on : 26th January 1982 to the Secretary of State for Wales in the form of a draft and the Secretary of State has NOT, within the relevant period, given notice of his intention to determine this matter. This discharge is therefore (in substitution for all the conditions hitherto in force) subject only to the following conditions as from : 26th April 1982

CONDITIONS

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

<u>Determinand</u>	<u>Value</u>	<u>Unit</u>
Biochemical Oxygen Demand (+ATU) over 5 days at 20°C	39	milligrams per litre
Suspended Solids dried at 105°C	43	milligrams per litre

Rate of discharge	1.25	litres per second
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Volume during any period of 24 consecutive hours	108	cubic metres
--	-----	--------------

Volume discharged under 'dry weather conditions' during any period of 24 consecutive hours	36	cubic metres
--	----	--------------

3. Adequate facilities shall be provided for the taking of samples of the effluent at: outlet to the River Alyn

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

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

WELSH WATER AUTHORITY

PLAN NO. RW/0696 I/I

LLANARMON-YN-IAL

SEWAGE TREATMENT WORKS

This is the Plan referred to
in the Variation of Consent

Number RW/0696 I/I

●
RMON-YN-IAL

Llanarmon-yn-ial

DISCHARGE POINT

1900 5588

LLANARMON-YN-IAL SEWAGE TREATMENT WORKS

DIV 31-638-01

REF

RW/0696 I/I

REGISTER OF CONDITIONS

AND OTHER TERMS

IMPOSED UNDER SECTION 7 OF THE RIVERS (PREVENTION OF POLLUTION) ACT, 1951
(AS APPLIED BY THE CLEAN RIVERS (ESTUARIES AND TIDAL WATERS) ACT, 1960)
AND THE RIVERS (PREVENTION OF POLLUTION) ACT, 1961.

No. 12
AMENDED

DATE ON WHICH CONDITION CAME INTO FORCE AND PERIOD OF EFFECT	FULL ADDRESS OR OTHER SUFFICIENT DESCRIPTION OF LAND OR PREMISES TO WHICH THE TERM OR CONDITION RELATES												
26th April, 1982.	Welsh Water Authority (Llanarmon-yn-Ial Sewage Treatment Works)												
USE OF NEW OR ALTERED OUTLET	DISCHARGE OF TRADE OR SEWAGE EFFLUENT												
<p>CONDITIONS IMPOSED WITH RESPECT TO:-</p> <p>(i) PRECISE LOCATION OF OUTLET</p> <p style="padding-left: 20px;">River Alyn at NGR SJ.1900 5588.</p> <p>(iii) CONSTRUCTION OF OUTLET <small>(OTHER THAN CONDITIONS TO BE SATISFIED BEFORE OUTLET IS BROUGHT INTO USE)</small></p> <p>(iii) USE OF OUTLET</p> <p style="padding-left: 20px;">Discharge of treated sewage effluent only.</p> <p>(iv) USE OF ANY OTHER OUTLET FOR TRADE OR SEWAGE EFFLUENT FROM THE SAME LAND OR PREMISES</p>	<p>CONDITIONS IMPOSED WITH RESPECT TO:-</p> <p>(i) NATURE AND COMPOSITION OF DISCHARGE</p> <p>The quality and quantity of effluent shall not exceed the following maximum values:-</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Determinand</th><th style="text-align: left; border-bottom: 1px solid black;">Value/Unit</th></tr> </thead> <tbody> <tr> <td>Biochemical Oxygen Demand (+ATU) over 5 days at 20°C.</td><td>39 mg/l.</td></tr> <tr> <td>Suspended Solids dried at 105°C.</td><td>13 mg/l.</td></tr> <tr> <td>Rate of discharge</td><td>1.25 l/sec.</td></tr> <tr> <td>Volume during any period of 24 consecutive hours</td><td>108 cu.m.</td></tr> <tr> <td>Volume discharged under 'dry weather conditions' during any period of 24 consecutive hours.</td><td>36 cu.m.</td></tr> </tbody> </table> <p>(iii) TEMPERATURE OF DISCHARGE</p> <p>(iii) VOLUME OR RATE OF DISCHARGE OF EFFLUENT FROM LAND OR PREMISES</p> <p>* (iv) PROVISION OF FACILITIES FOR TAKING SAMPLES</p> <p>Adequate facilities shall be provided for the taking of samples of the effluent at - outlet to the River Alyn.</p> <p>(iv) DATE OF EXPIRATION OF PERIOD SPECIFIED UNDER S.5(2) OF 1961 ACT</p> <p style="text-align: center;">26th April, 1984.</p>	Determinand	Value/Unit	Biochemical Oxygen Demand (+ATU) over 5 days at 20°C.	39 mg/l.	Suspended Solids dried at 105°C.	13 mg/l.	Rate of discharge	1.25 l/sec.	Volume during any period of 24 consecutive hours	108 cu.m.	Volume discharged under 'dry weather conditions' during any period of 24 consecutive hours.	36 cu.m.
Determinand	Value/Unit												
Biochemical Oxygen Demand (+ATU) over 5 days at 20°C.	39 mg/l.												
Suspended Solids dried at 105°C.	13 mg/l.												
Rate of discharge	1.25 l/sec.												
Volume during any period of 24 consecutive hours	108 cu.m.												
Volume discharged under 'dry weather conditions' during any period of 24 consecutive hours.	36 cu.m.												
REMARKS--	REMARKS--												

REGISTER OF CONDITIONS

AND OTHER TERMS

IMPOSED UNDER SECTION 7 OF THE RIVERS (PREVENTION OF POLLUTION) ACT, 1951
(AS APPLIED BY THE CLEAN RIVERS (ESTUARIES AND TIDAL WATERS) ACT, 1960)
AND THE RIVERS (PREVENTION OF POLLUTION) ACT, 1961.

No. 12.

(11111)

CM00012-01

CAT. NO. R.B.12 SHAW & SONS LTD., FETTER LANE, E.C.4.

DATE ON WHICH CONDITION CAME INTO FORCE AND PERIOD OF EFFECT	FULL ADDRESS OR OTHER SUFFICIENT DESCRIPTION OF LAND OR PREMISES TO WHICH THE TERM OR CONDITION RELATES
31st January, 1968.	Ruthin Rural District Council, 101 Street Offices, Ruthin, Denbighshire. Llanarmon-yn-Ial Sewage Disposal Works.
USE OF NEW OR ALTERED OUTLET	DISCHARGE OF TRADE OR SEWAGE EFFLUENT
<p>CONDITIONS IMPOSED WITH RESPECT TO:-</p> <p>(I) PRECISE LOCATION OF OUTLET</p> <p>Discharge into the River Wym at Llanarmon (West bank). Field C.S. No. 1775).</p> <p>(II) CONSTRUCTION OF OUTLET (OTHER THAN CONDITIONS TO BE SATISFIED BEFORE OUTLET IS BROUGHT INTO USE)</p> <p>-</p> <p>(III) USE OF OUTLET</p> <p>Discharge of sewage effluent from Sewage Disposal Works at Llanarmon.</p> <p>(IV) USE OF ANY OTHER OUTLET FOR TRADE OR SEWAGE EFFLUENT FROM THE SAME LAND OR PREMISES</p> <p>-</p>	<p>CONDITIONS IMPOSED WITH RESPECT TO:-</p> <p>(I) NATURE AND COMPOSITION OF DISCHARGE</p> <p>Discharge shall consist of purified domestic sewage effluent and shall :-</p> <p>(a) have a pH not less than 5 and not more than 9;</p> <p>(b) have a Biochemical Oxygen Demand in 5 days at 20°C of not more than 20 milligrams per litre of effluent;</p> <p>(c) contain not more than 30 milligrams of suspended solids, dried at 105°C per litre of effluent.</p> <p>(II) TEMPERATURE OF DISCHARGE</p> <p>-</p> <p>(III) VOLUME OR RATE OF DISCHARGE OF EFFLUENT FROM LAND OR PREMISES</p> <p>The Dry Weather Flow shall not exceed 7,500 gallons in any period of twenty-four hours.</p> <p>* (IV) PROVISION OF FACILITIES FOR TAKING SAMPLES</p> <p>-</p> <p>(V) DATE OF EXPIRATION OF PERIOD SPECIFIED UNDER S.5(2) OF 1961 ACT</p> <p>31st March, 1968.</p>
REMARKS--	REMARKS--
	The maximum rate of flow shall not exceed 11.1 gallons per minute.

* IF DISCHARGE NOT CONTROLLED UNDER S.7 OF 1951 ACT

Dee & Clwyd River Authority
RIVERS (PREVENTION OF POLLUTION) ACT, 1961

Notice

TO:-

THE CHIEF,
 NORTH-WEST WATERWORKS DISTRICT,
 101, SOUTH STREET,
 RUTHEN,
 MERIONETHSHIRE.

The Dee and Clwyd River Authority pursuant to Section 5(1) of the Rivers (Prevention of Pollution) Act, 1961, HEREBY GIVE NOTICE that Consent No. 12..... approved on 10th June, 1955,

and relating to the discharge of purified domestic sewage effluent from Llanammon-yn-Ial Sewage Disposal Works

has been reviewed and the conditions imposed are varied so that henceforth the conditions shall be as stated hereunder:-

1. The effluent discharged shall :-

- (a) have a pH not less than 8 and not more than 9;
- (b) have a Biochemical Oxygen Demand in 5 days at 20°C of not more than 20 milligrams per litre of effluent;
- (c) contain not more than 50 milligrams of suspended solids, dried at 105°C per litre of effluent.

2. The Dry Weather Flow shall not exceed 7,000 gallons in any period of twenty-four hours.

The terms of this Notice will not, without the consent in writing of the person to whom this Notice is given (or his successor), be altered before the expiration of the period ending with the 31st day of March, 1968.

2 Vicar's Lane

Chester

31st January, 1966.

Date.....

(signed) H. H. CRANE

Chief Officer

REGISTER OF CONDITIONS

IMPOSED UNDER SECTION 7 OF THE RIVERS (PREVENTION OF POLLUTION) ACT, 1951.

12.

CAT. No. R.B.12 SHAW & SON LTD., FETTER LANE, E.C.4. V7/1

DATE ON WHICH CONDITIONS CAME INTO FORCE	FULL ADDRESS OR OTHER SUFFICIENT DESCRIPTION OF LAND OR PREMISES TO WHICH THE CONDITIONS RELATE
10th. June, 1955.	Sewage Disposal Works, Llanarmon. Ruthin Rural District Council.
USE OF NEW OR ALTERED OUTLET	NEW DISCHARGE
<p>CONDITIONS IMPOSED WITH RESPECT TO:-</p> <p>(i) PRECISE LOCATION OF OUTLET</p> <p style="text-align: center;">At Llanarmon on the West bank of the River Alyn in Field No. 1775.</p> <p>(ii) CONSTRUCTION OF OUTLET (OTHER THAN CONDITIONS TO BE SATISFIED BEFORE OUTLET IS BROUGHT INTO USE)</p> <p>(iii) USE OF OUTLET</p> <p style="text-align: center;">Discharge of sewage effluent from disposal works at Llanarmon.</p> <p>(iv) USE OF ANY OTHER OUTLET FOR TRADE OR SEWAGE EFFLUENT FROM THE SAME LAND OR PREMISES</p> <p style="text-align: center;">Nil.</p>	<p>CONDITIONS IMPOSED WITH RESPECT TO:-</p> <p>(i) NATURE AND COMPOSITION OF DISCHARGE</p> <p style="text-align: center;">B.O.D. in 5 days at 20°C shall not exceed 20 p.p.m. Suspended Solids dried at 105°C shall not exceed 30 p.p.m.</p> <p>(ii) TEMPERATURE OF DISCHARGE</p> <p style="text-align: center;">Nil.</p> <p>(iii) VOLUME OR RATE OF DISCHARGE OF EFFLUENT FROM LAND OR PREMISES</p> <p style="text-align: center;">The dry weather flow shall not exceed 7,500 galls./day. Maximum rate of flow shall not exceed 15.6 galls./min.</p> <p>REMARKS:-</p>