

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



**ENVIRONMENT
AGENCY**

Part A

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

The **Environment Agency** ("the Agency") hereby confirm that the above named person is a/the registered holder of consent CG0062001

Nature of Discharge(s); SEWAGE EFF/STORM EFF/RAINFALL
at LLANRWST STW - STORM TANKS OVE

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

Part B Please complete in block capitals or type.

To:

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

Consent: Name:
Address:

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

Name(s) of new holder(s):

Address:

Post Code:

Date of Transfer to new Holder(s);

Signed: **Dated:**

Name (block capitals): **Position:**

(to be completed on behalf of corporate bodies)



CG 00 620 01

W/No. 203/10 & DR/11/2

1st March, 1966.

Dear Sir,

Rivers (Prevention of Pollution) Act 1951 - 1961
Re: Proposed New Sewage Treatment Works.

With reference to previous correspondence regarding the new sewerage and sewage disposal scheme for Llanrwst, the Gwynedd River Authority, in pursuance of their powers under the above Acts, hereby consent to the bringing into use of a new outlet for the discharge of storm sewage and the making of a new discharge of storm sewage into the River Conway through the outlet marked No. 3 on the Consulting Engineer's drawing number 2/164/1011 dated January 1964 and subject to the following conditions:-

G.R. SM 7929 6191

The rate of discharge of effluent to the river shall be limited to the amount by which the rate of flow into the pumping station sewage well exceeds 405,000 gallons per day and shall take place for so long only as an overflow is occurring from the storm sewage tanks.

The terms of this consent will not, without the consent in writing of the person to whom this consent is given (or his successor), be altered before the expiration of the period ending with the 1st day of May 1966.

Yours faithfully,

[Signature]
Chairman of the Authority

The Clerk,
Llanrwst Urban District Council,
Council Offices,
Llanrwst,
Denbighshire.



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> CG 0062001 <i>Date Received:</i> 2/12/02 <i>Fee Received:</i> £688 2/12/02
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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).

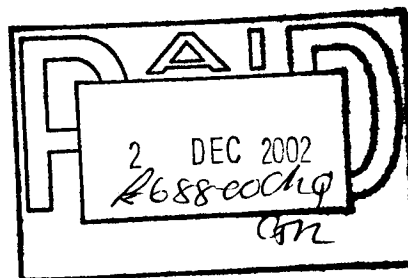
1 SITE ADDRESS

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

Llanrwst Sewage Treatment Works
Off Station Road
Llanrwst Conwy

Post Code:

LL26 0DF



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 3833 m3/day

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

Formula "A" flow of 6340.2 m3/d less FFT 2507.2 m3/d.

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

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

Pipe 225 mm dia. is existing

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

S	H	7	9	4	7	7	6	1	7	8	1
---	---	---	---	---	---	---	---	---	---	---	---

(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	H	7	9	5	6	4	6	1	8	3	0
---	---	---	---	---	---	---	---	---	---	---	---

(please indicate on accompanying plans)

c) What flow measurement facilities will be provided (see note v)?

Please give details.

Flowrate to storm is determined by subtraction of flowrate recorded from crude sewage pumps less recorded flow at the inlet works.

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

STW receives flow from on-site pumping station equipped with duty/assist/stand-by pumps and mechanically operated screen. Treatment process consists of primary sedimentation, biological filtration and humus settlement tanks.

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?

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

to:

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

2.7 a) Are there any existing consents for 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).

Storm Consent No CG00 62001 dated 1/5/66.

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.

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

Dwr Cymru Cyf

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:

Afon Conwy

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. N/A m
- (e) For sub-irrigation systems, soakaway pits, wells and boreholes, state maximum depth in metres. N/A m
- (f) For boreholes, state details of lining in metres:
- (i) Depth of lining N/A m
 - (ii) Depth of perforated lining N/A m
 - (iii) Depth of unperforated lining N/A m
- (g) A percolation test must be carried out in accordance with British Standard BS6297:1983. Have the results been provided? Y/N

4.3 Is there a foul sewer available to which the discharge(s) could be made (see note viii)? Y/N

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

Not Applicable

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: <i>J.P. Edwards</i>	PRINT NAME: J P EDWARDS
ON BEHALF OF:DWR CYMRU CYF.....	DATED: 29/11/02

CONFIDENTIALITY

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

SIGNED:	DATED:
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PLEASE RETURN THIS FORM TO THE ADDRESS GIVEN ON THE FRONT PAGE

5. Overflow settings

- | | |
|---|----------|
| a) Overflow setting to storm tanks | 29.0 l/s |
| b) Maximum flow to storm tanks (Soc "A" less FFT) | 44.4l/s |
| c) Overflow setting to storm sewage overflow | N/A l/s |
| d) Maximum flow to storm sewage overflow | N/A l/s |

6. Storage capacity

- | | |
|--|--------------------|
| a) Volume of Storm tanks | 209 m ³ |
| b) Retention time of storm tanks at maximum flow | 2 hours |
| c) Storage capacity of sewer/wet well | N/A m ³ |

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

Flowrate derived from Formula "A" flow of 6340.2 m³/d less FFT of 2507.2 m³/d

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

If yes, please give details.

Flow to storm tank is annunciated at electrical control panel

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

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

All storm flows are screened through 6 mm particle size screen.

10. What provisions will be made to deal with:

- | | |
|---|---|
| a) power failure (eg standby generators)? | No stand-by generator provided |
| b) mechanical breakdown (eg standby pumps)? | Duty and stand-by storm water return pumps are provided at works storm tank |
| c) rising main failure? | Not applicable |
| d) tanker access? | Yes via site access road |

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

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



ANNEXE 3 TRADE EFFLUENT DISCHARGES

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

Official Use Only
Application No.

1. Site Name.

Llanrwst Sewage Treatment Works

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

Trade effluents are consented from four traders in the catchment area.

1. Slaughter House,
2. Public Swimming Pool,
3. Livestock Market,
4. Laundrette,

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

Not Applicable

3. Rainfall Dependent Discharges **Not Applicable**

a) Is the volume going to be rainfall dependent?

Y/N

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

Not Applicable m²

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

Not applicable

4. Rainfall Independent Discharges

a) What is the maximum rate of discharge?

Not Applicable l/s

b) What is the average daily flow?

Not Applicable m³/d

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

i) give the abstraction licence number

Not Applicable

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

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

(please mark on the plan)

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

These discharges are controlled through trade effluent legislation within the Water Industry Act and are monitored regularly by trade effluent staff for monitoring and charging purposes.

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

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

Not Applicable

b) Will the discharge be monitored for temperature? Y N

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

Not Applicable

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

If yes, please complete the following:

a) The application reference.

b) Contact name of case officer.

8. a) Please indicate if any of the specified substances given below or their compounds will be present in the effluent and if so at what maximum concentration (please give values in micrograms per litre - ug/l). Please see note c. **Not Applicable**

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

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

No. No change in discharges have been observed or declared by the four traders and normal sanitary determinands and sulphide and sulphate are the suite analysed. We have no knowledge of any Red List or Grey list chemicals being in the trade discharges which eventually are disposed of by Llanrwst Sewage Treatment Works

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

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



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.

Llanrwst Sewage Treatment works

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):

Storm tank overflow is discharged through 250 mm diameter pipe which connects into the 18 inch pump station emergency overflow CSO discharge pipe.

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

£300,000

This is for the conversion of an existing storm tank into a second primary tank; to construct a new storm tank; provide screening of storm flows, uprate biological filters with recirculation pipework and provide new storm water sampling chamber. These are essential improvements. No alternative options exist.

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 2 is applicable

8. Please state:

Population served (head)	3833
Consumption (l/head/day) default = 180	180
Infiltration (m ³ /day)	179.4
Industrial effluent flow (m ³ /day)	86
Dry Weather Flow (m ³ /day)	955.3
Soc A (l/sec)	73.4
Predicted spill frequency (per annum)	Not known since catchment not modelled, but less than current due to increased FFT

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.**

12



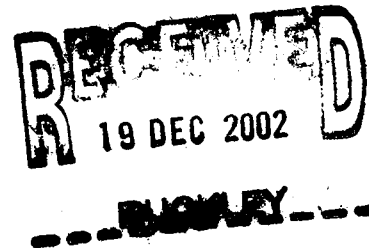
ASiantaeth yr
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Ein cyf/Our ref. WP/SH/CG0062001

Dyddiad/Date: 16th December 2002

Dwr Cymru Cyf
Pentwyn Road
Nelson
Treharris
Mid Glamorgan
CF46 6LY

COPY



Dear Sir/Madam

WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995), APPLICATION FOR CONSENT TO DISCHARGE STORM SEWAGE BY DWR CYMRU CYF FROM LLANRWST SEWAGE TREATMENT WORKS, OFF STATION ROAD, LLANRWST. APPLICATION NO:CG0062001.

Initial consideration has been given to the application and we find that we cannot proceed with the application until further information is provided. The attached notice gives details of the information required to enable us to proceed, and the timescale for providing us with the information.

If we do not hear from you by 28 days from this notice we may refuse to proceed with the application. If you need more time to collect the information please let us know before this date.

Legislation allows 4 months, from the date the application is complete, to determine your application. This 4-month period will not start until you have provided this information asked for.

When the full information is received, the Agency is required to advertise the application unless it considers that the proposed discharge is **unlikely to have** any appreciable effect on the receiving watercourse. This would involve placing a notice in local newspaper(s) and in the London Gazette at your expense. I will contact you again should advertising be required.

Details of your application for consent are placed on a public register, kept by the Agency and open for inspection by the public.

Yours sincerely

Emyr Jones

**Emyr Jones
Team Leader Environment Management**

Please ask for Ext. 4502

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



Application No. CG0062001



ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

ENVIRONMENT AGENCY

WELSH REGION

WATER RESOURCES ACT 1991 - SCHEDULE 10
(as amended by the Environment Act 1995)

NOTICE REQUIRING FURTHER INFORMATION TO SUPPORT APPLICATION FOR DISCHARGE CONSENT

To: Dwr Cymru Cyf
Pentwyn Road
Nelson
Treharris
Mid Glamorgan
CF46 6LY

Application For Consent to discharge from Llanrwst Sewage Treatment Works.

In pursuance of its powers under paragraph 1(4) of Schedule 10 to the Water Resources Act 1991 the **Agency** gives you **NOTICE** that further information, as detailed in the attached Schedule, is required for the purpose of determining the above application for Consent and should be provided to the **Agency** at the following address within the period of 28 days from the date of this notice.

Address to which information should be sent:

Miss Stella Hammond
Environment Agency Wales
Chester Road
Buckley Flintshire CH7 3AJ

Signed:

Emyr Jones

Emyr Jones

Date: 17/12/2002

NOTES

- 1 If you fail to provide the information required by this notice within the period specified above, we will refuse to proceed with your application
- 2 You may apply to the Agency for this notice and any of the information provided in response to be excluded from the Public Register on the grounds that it is commercially confidential. Please include any application for confidentiality and associated reasons with your response to this notice.
- 3 If it appears to you that it would be contrary to the interests of national security for any information provided in response to this notice to be entered on the Public Register, you may give notice to that effect to the Secretary of State DEFRA/National Assembly for Wales. Please include a copy of any notice given to the Secretary DEFRA/National Assembly for Wales with your response to this notice.
- 4 Subject to any decision that the information provided in response to this notice is commercially confidential or would affect national security, it will be placed on the Public Register.

The Schedule is attached.

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





DŴR CYMRU
WELSH WATER

AYRA/EA

27 JAN 2003

BANGOR

Dinas
Llanwnda
Caernarfon
Gwynedd LL54 5UD

Ffôn: 0800 052 0130
Ffacs: +44(0)1286 832227
Safle gwe: www.dwrcymru.com

Dinas
Llanwnda
Caernarfon
Gwynedd LL54 5UD

Tel: 0800 052 0130
Ffacs: +44(0)1286 832227
Web site: www.dwrcymru.com

Mr Emyr Jones
Team Leader Environment Manager
Environment Agency
Chester Road
Buckley
Flintshire
CH7 4AJ

Dyddiad/Date:
21 January 2003

Ymholiadau/Enquiries:
T.P. Woodward
Tel: 01248 853196

Ein Cyf./Our Ref:
Llanwrst WwTW

Eich Cyf./Your Ref:
WP/SH/CG 0062001

Dear Sir

Re: Llanwrst WwTW improvements Schedule 10 Request on Application Numbers CG 0062001

Further to my letter of 12th January I am now able to respond to the questions posed in the Schedule attached to your letter of 16th December.

This has taken a short while to sort out since the application had attached to it an early draft version of the Interpretation of data. I believe that a correct version was hand delivered today to the Agency's Buckley Office and I attach a further copy to this letter.

- The data for Formula 'A' in the application is correct i.e. 6340.2m³/d.
- The Interpretation of data attached shows that FFT is 29 l/s and in sizing a storm tank AMP 2 Guidelines require either 68l/hd or 2 x FFT storm tank capacity. DCWW designers have used the latter. It is quite correct where SOC 'A' is pumped to the works to say that the maximum flow to the storm tanks is SOC 'A' minus FFT. However the retention time in the storm tanks is not 2 hours at maximum flow but 1.3 hours ($\{209 \times 1000\} / \{44.4 \times 60 \times 60\}$). Could you therefore amend Annex 2 section 6 b) to read 1.3 hours and not the 2 hours shown in the application. I apologise for this error.

I trust that this has clarified the situation but should you need further information please contact us.

Yours sincerely

PT Tony Andrews
Environment Quality Scientist

glas

Glas Cymru Cyfyngedig

We welcome correspondence in Welsh and English
Rydym yn croesawu gohebiaeth yn y Gymraeg neu yn Saesneg

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

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

Llanrwst STW

Interpretation of data

(to be read in conjunction with Application for Variation to Consent)

1. Introduction

Llanrwst STW is a biological filter works originally equipped with an on-site pumping station, a single storm tank, an adjacent single primary tank, two biological filters and two humus settlement tanks. Historically the works was the site for anaerobic digestion of sludge. Whilst this operation has been discontinued the works continues to receive imported raw sewage by road tanker from septic tanks. The works also receives trade effluent from an abattoir, livestock market, swimming pool and laundrette. The works has been previously upgraded with a third humus tank. It was decided under AMP3 to further upgrade the works by converting the existing storm tank into a second primary tank and to utilise a redundant sludge storage tank for storm storage. The existing biological filters were without recirculation. This recirculation facility is now included in the work.

In order to provide design data for engineering developments a flow and load survey was commissioned to supplement data on raw sewage flows available from telemetry records. The flow and load survey was undertaken by H&M Environmental Services over a two week period commencing 19th March 2002 and reported in May 2002.

1. Historical data on flows entering the works

Sewage flows into a sump at the works and is then pumped to an elevated structure containing a grit trap, screen and measuring flume, the sewage then flows by gravity into the primary tank or above full flow to treatment into the storm tank. A manually operated penstock is provided upstream of the flume. From telemetry data flows recorded over the past three years confirm the maximum flow to treatment is 29 l/s.

2. Summary of data obtained from the flow and load survey

A summary of survey results is attached in Appendix 1. From these results there is evidence of high imports of raw sewage as observed from the high daily BOD loadings determined on the basis of composite samples. Treatment of imported sewage requires the unloading of road tankers into redundant sludge drying beds followed by decanting and return of supernatant liquors into the pumping station sump. Examination of the survey results shows processing of imported sewage and trade effluents over most of the survey period. The likely exceptions being the public holidays of Good Friday (29th March), Easter Day (31st March), Easter Monday (1st April) and possibly 22nd March.

For design purposes the normal domestic BOD load was taken to be the average of the BOD loads recorded for the three public holidays; a figure of 260 kg/d. Using a figure of 60 g/hd/d a population equivalent of 4,333 was derived. The AMP 3 programme spreadsheet equivalent population is quoted as 4279.



Application No.	CG0062001
Date issued	16 th December 2002

SCHEDULE OF FURTHER INFORMATION REQUIRED

Could you please supply the following information:

- In section 2.2 and Annex 2 Q6, Formula 'A' is given as a flow of 6340.2 m³/day. In the attached document "Interpretation of Data" – 'Derivation of Flowrates', SOC 'A' is given as 3918m³/day. Can you please clarify which figure has been used as a basis for calculations in this application.
- "Interpretation of Data" document states that the sizing of the storm tanks used the criteria of 2 hours retention at FFT, with FFT being 29.7 litres per second. However Annex 2 Q5 states that the maximum flow to the storm tanks is SOC 'A' less FFT which equals 44.4 litres per second. 29 litres per second is infact the overflow setting to the storm tanks. Can you please clarify on what flow the hours of retention available was calculated



On the basis of continued operation of the pumping station throughout the silent hours (00.00 to 06.00) there is evidence of infiltration. This has been assessed as 26 % of PG.

Derivation of Flowrates

The formulae provided by The Institution of Water and Environmental Management in the handbook Preliminary Processes Third Edition has been used.

$$\begin{aligned} \text{DWF} &= (PG + I + E) \\ &= (3833 \times 180)/1000 + 179.4 + 86 \text{ m}^3/\text{d} \\ &= \mathbf{955.3 \text{ m}^3/\text{d} (11.1 \text{ l/s) } \end{aligned}$$

$$\begin{aligned} \text{FFT} &= 3PG + I + 3E \\ &= 3 (3833 \times 180)/1000 + 179.4 + 3 \times 86 \text{ m}^3/\text{d} \\ &= \mathbf{2507.2 \text{ m}^3/\text{d} (29.0 \text{ l/s) } \end{aligned}$$

$$\begin{aligned} \text{SOC 'A'} &= \text{DWF} + 1.36 P + 2E \\ &= 955.3 + 1.36(3833) + 2 \times 86 \text{ m}^3/\text{d} \\ &= \mathbf{6340.2 \text{ m}^3/\text{d} (73.4 \text{ l/s) } \end{aligned}$$

Note. Use has been made of the default value of 180l/hd/d in deriving the above figures.

For sizing of the storm tank the criteria of 2 hours retention at FFT has been adopted. The storm tank has a working capacity of 209 m³.

As with analysis of the Biological Oxygen Demand the concentration of suspended solids in the raw sewage was determined from daily composite samples. Over the 14 day survey period the Suspended Solids load was determined to be 260 kg/d.

3. Transformation of design data into consent application data.

To assess relative proportions of domestic and trade loads Meica Process contacted DCWW for licensed trade information. The consented traders being:-

- Llanrwst Public Swimming Pool
Llanrwst Smithfield (Livestock Market)
- Conwy Valley Meats (Abattoir)
- Laundrette

Trade Load arising from Consented Traders

(based on COD:BOD ratio of 2 : 1)

	Swimming Pool	Cattle Market	Slaughter House	Laundrette
COD, mg/l	1000	3000	3000	3000
BOD, mg/l	500	1500	1500	1500
Flow, m3/d	50	16	5	15
BOD Load, kg/d	25	24	7.5	22.5

Trade flows from the livestock market, abattoir and swimming pool drain to the works pumping station sump via the main sewer. Only imported septic tank sewage collected by road tankers is unloaded into the old sludge beds. For the swimming pool the trade effluent is derived from emptying and backwash water. It is not known how often this occurs. Whilst livestock markets occur weekly only the laundrette and the abattoir were considered to be a continuous discharge to the works contributing an estimated BOD load of 30 kg/d.

Using the BOD figure of 260 kg/d derived from the flow and load survey less the trade effluent load of 22.5 kg/d due to the Laundry and 7.5 kg/d arising from the abattoir gives a population figure of 3833 based on a BOD load of 230 kg/d and a per capita BOD figure of 60 g/hd/d .

Using the average Suspended Solids load over the survey period of 260 kg/d gave a slightly lower population equivalent of 3714 based on a per capita Suspended Solids figure of 70 g/hd/d.

The mean daily flow over the survey period was 8.45 l/s, This is an approximate population of 4056 based on 180 l/hd/d.

APPENDIX –

H&M Environmental Ltd Survey March 2002 (Extract)

1 Rainfall Data

The rainguage was installed for 15 days of the survey. During this period there was no intense rainfall. Light rainfall was recorded on 20th, 30th and 31st March when daily totals of 3.8 mm, 2.2mm and 3.0 mm were recorded.

2 Flow Data

Table 3.1 Influent Flow Data

Date	Rainfall (mm/d)	Total Daily Flow (m ³ /d)	Average Flowrate (l/s)
19/03	0.0	723.5	8.37
20/03	3.8	776.4	8.99
21/03	1.0	774.5	8.96
22/03	0.2	752.1	8.70
23/03	0.0	706.5	8.18
24/03	0.0	704.0	8.15
25/03	0.0	763.7	8.84
26/03	0.0	818.9	9.48
27/03	0.0	648.2	7.50
28/03	0.0	668.9	7.74
29/03	0.6	707.9	8.19
30/03	2.2	693.3	8.02
31/03	3.0	732.4	8.48
01/03	1.0	755.3	8.74
02/03	0.0	733.0	8.48
Average	0.8	730.6	8.45

3.2 Quality Data

Daily composite results for BOD, COD and TSS are given in Table 3.2

Day	BOD ₅ (mg/l)	COD (mg/l)	TSS (mg/l)
19/03	575	743	82
20/03	503	767	1142
21/03	510	543	1256
22/03	395	724	378
23/03	581	684	130
24/03	1175	814	186
25/03	1069	1010	177
26/03	N/s	N/s	N/s
27/03	1271	1940	533
28/03	588	814	100
29/03	388	787	106
30/03	756	1325	361
31/03	291	629	98
01/04	390	766	218
02/04	636	1680	146
Average	652	945	351

3.3 Loading Data

The total daily flow was combined with the 24 hour composite sample taken over the same time period to produce the total daily load to the works of the four identified parameters. Table 3.3 shows the results.

Day	BOD ₅ (kg/d)	COD (kg/d)	TSS (kg/d)
19/03	416.0	537.6	59.3
20/03	390.5	595.5	886.6
21/03	395.0	420.6	972.8
22/03	297.1	544.5	284.3
23/03	410.5	483.2	91.8
24/03	827.2	573.1	130.9
25/03	816.4	771.3	135.2
26/03	NS	NS	NS
27/03	823.9	1257.5	345.5
28/03	393.3	544.5	66.9
29/03	274.7	557.1	75.0
30/03	524.1	918.6	250.3
31/03	213.1	460.7	71.8
01/03	294.6	578.6	164.7
02/03	466.2	1231.4	107.0
Average	467.3	676.7	260.2

NS = Not Sampled

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 : 28 March 2003

The Environment Agency ("the Agency") hereby confirm that the above named person (or organisation) is a / the registered Holder of the Consent : CG0062001 Consent Issued : 28 March 2003

Nature of Discharge(s) SSOR Sewage effluent

at SH7947761781 LLANRWST STW LLANRWST CONWY

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 : CG0062001

Name : DWR CYMRU CYFYNGEDIG

Consent Issued : 28 March 2003

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) :

Postion (if appropriate) :

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

^
Deddf Adnoddau Dwr 1991
fel y'i diwygiwyd gan Ddeddf yr Amgylchedd 1995



**ASiantaeth yr
AMGYLCHEDD CYMRU**
**ENVIRONMENT
AGENCY WALES**

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 : 28 Mawrth 2003

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 : CG0062001 Cyhoeddwyd y Caniatâd : 28 Mawrth 2003

Natur y Gollyngiad(au) : SSOR Carthffrwd
yn SH7947761781 LLANRWST STW LLANRWST CONWY

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.

-----torrwch yma-----

Rhan B

Llenwch mewn priflythrennau bras neu deipio

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

Cyfeirnod y Caniatâd : CG0062001

Enw : DWR CYMRU CYFYNGEDIG

Cyhoeddwyd y 28 Mawrth 2003

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)

COPY



ASiantaeth Yr
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Eich cyf/Your ref.
Ein cyf/Our ref. RP/WP/CG0062001
Enquiries Ruth Prichard ext4509
Dyddiad/Date:

Environment Quality Scientist
Dwr Cymru Cyfyngedig
Nelson
Treharris
Mid Glamorgan
CF46 6LY

Dear Sir/Madam,

RE: WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT ACT 1995) APPLICATION FOR VARIATION OF CONSENT TO DISCHARGE NO CG0062001.

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 sewage effluent from Llanrwst Sewage Treatment Works.

Under the present Scheme of Charges for Discharges to Controlled Waters an annual charge will be made for all consents to discharge, except where the discharge 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 01244 550124 Ffacs 01244 550144

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





ASiantaeth yr
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

If you have any queries regarding the enforcement of this consent please contact Emyr Jones Team Leader Environment Protection, Environment Agency, Ffordd Penlan, Parc Menai, Bangor, Gwynedd, LL57 4DE

Yours sincerely,

Kelvin Graham
Team Leader Customer Contact and Authorisations
Enc.

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





CONSENT NO.	CG0062001
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WATER RESOURCES ACT 1991

SECTION 88 - SCHEDULE 10

(AS AMENDED BY THE ENVIRONMENT ACT 1995)

VARIATION OF CONSENT TO DISCHARGE

TO: Environment Quality Scientist
Dwr Cymru Cyfyngedig
Nelson
Treharris
Mid Glamorgan CF46 6LY

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

Settled Storm Sewage
with respect to Consent No. CG 0062001 issued on the 1st day of March 1966

FROM: Llanrwst Sewage Treatment Works

AT: Llanrwst, Conwy

TO: the Afon Conwy

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

Settled Storm Sewage Schedule No. CG0062001 01

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 takes effect.

This consent is issued on the 28th day of March 2003
This consent is effective from the 1st April 2003.

Signed *Emyr Jones*
EMYR JONES

Environment Management Team Leader



Y95



ASiantaeth Yr
Amgylchedd Cymru
Environment
Agency Wales

CONSENT NO.	CG0062001
SCHEDULE NO.	CG0062001 01
DATE ISSUED	28th March 2003

CONDITIONS OF CONSENT TO DISCHARGE

Settled Storm Sewage ("the Discharge")

FROM: Llanrwst Sewage Treatment Works

NATURE

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

LOCATION

- 2 The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via an 18 inch diameter pipe;
 - (b) discharging to the Afon Conwy;
 - (c) at National Grid Reference SH 79477 61781;
 - (d) shown marked 'Consent Point' on Plan CG0062001 attached as Annex 2.

SAMPLING POINTS

- 3 An appropriately labelled sample point shall be provided and maintained at National Grid Reference SH 79564 61830 as shown marked 'Discharge Sample Point' on Plan CG0062001, attached as Annex 2 so that a representative sample of the Discharge may be obtained. The consent holder shall ensure that all constituents of the Discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the Discharge taken at the said sampling point is a sample of what was discharging into controlled waters.





CONSENT NO.	CG0062001
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SCHEDULE NO.	CG0062001 01
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VOLUME

- 4 The volume of the Discharge shall not exceed 3833 cubic metres per day.
- 5 The discharge shall occur when and only for as long as, the storm tank is full. The discharge of storm sewage to the storm tank shall only occur when the rate of flow at the storm sewage separating weir is in excess of 29 litres per second due to rainfall and/or snowmelt and shall consist only of flows in excess of this figure. The storm tank shall be emptied automatically and its contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tank.
- 6 The capacity of the storm tank shall be at least 209 cubic metres.

COMPOSITION

- 7
 - (a) The Discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 6 millimetres in two dimensions.
 - (b) The screening device shall be maintained in an efficient operational condition.
 - (c) All screenings must be removed and disposed of in a manner such as to prevent entry to the discharge.

WORKS OPERATION

- 8
 - (a) The works shall be operated and the effluent shall be treated in a manner which, so far as reasonably practicable, minimises the polluting effects of the Discharge made from the works on controlled waters.
 - (b) This condition does not require any alteration of the works or a change in the type of treatment used.

UNUSUAL WEATHER CONDITIONS

9.
 - (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 the conditions contained in condition 8 of this consent have been complied with.



CONSENT NO.	CG0062001
SCHEDULE NO.	CG0062001 01



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AGENCY WALES

- (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.
- (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 effect.
- (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

- 10 (a) The Consent Holder shall establish and operate a documented maintenance programme and record all non-routine actions undertaken that may have adversely affected the operation of the storm tanks. Copies of the programme shall be made available for inspection by the Agency's officers at all reasonable times.
- (b) On request the consent holder shall supply the Agency with a written report on the maintenance and all non-routine actions that may have adversely affected the operation of the storm tanks.



CONSENT NO.	CG0062001
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SCHEDULE NO.	CG0062001 01
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**ASiantaeth Yr
Amgylchedd Cymru
Environment
Agency Wales**

11. The Consent Holder shall notify the Agency in writing if any known or planned introduction or material change in respect of discharges from trade premises to the sewerage system occurs, that may increase or introduce into the effluent any "dangerous substance" (set out in Annex 1 to this notice as updated from time to time and notified to the consent holder in writing), and any other substance considered by the consent holder as having or likely to have a significant effect on the receiving waters.

SUBSTANTIAL CHANGE

- 12 A Discharge shall not be made from the works if it would cause a significant increase in the polluting effect of the Discharge on controlled waters as a result of a new or altered discharge of trade effluent into the works.

- 12.1 A discharge of trade effluent into the works is new if -

- (a) it is made by the sewerage undertaker and is of a kind not made into the works by the undertaker immediately before the date of effect of this consent; or
- (b) it is made by a third party and the discharge is authorised on or after that date.

- 12.2 A discharge of trade effluent into the works is altered if -

- (a) it is made by the sewerage undertaker and its composition or quantity changes significantly on or after the date of effect of this consent; or
- (b) it is made by a third party and the alteration of the discharge is authorised on or after that date.

- 12.3 An increase in the polluting effects of the Discharge on controlled waters is not significant for the purposes of this condition if it relates to any characteristic of the Discharge which is specifically regulated by conditions in this consent but it may be significant if it is caused by a change in some other characteristic of the Discharge.



CONSENT NO.	CG0062001
SCHEDULE NO.	CG0062001 01



12.4 For the purpose of the condition "trade effluent" means -

- (a) any discharge by the sewerage undertaker other than
 - (i) domestic sewage from premises connected directly or indirectly to the works; or
 - (ii) surface water run-off;
- (b) any discharge by a third party which is authorised under Chapter III of Part IV of the Water Industries Act 1991 or which is only accepted as a result of a contract with the sewerage undertaker.

UNAUTHORISED DISCHARGES

13 A Discharge made from the works shall not contain any poisonous, noxious or polluting matter or solid waste matter which is attributable to any unauthorised discharge into the works.

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



CONSENT NO.

CG0062001



ASiantaeth Yr
Amgylchedd Cymru
ENVIRONMENT
AGENCY WALES

ANNEX 1

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

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

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



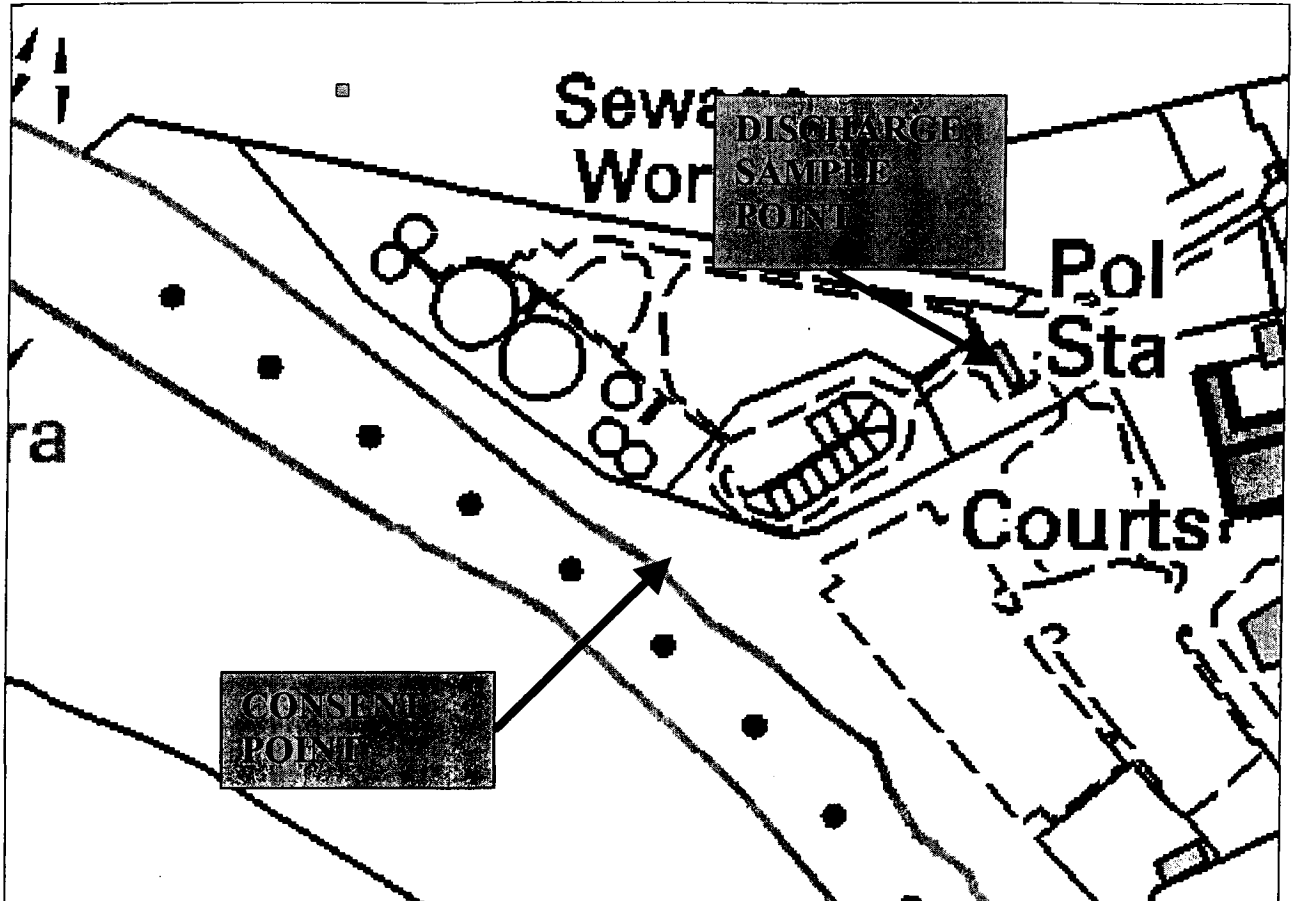


ASiantaeth yr
Amgylchedd Cymru
Environment
Agency Wales

CONSENT NO.	CG0062001
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ANNEX 2

Plan CG0062001



NOT TO SCALE

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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 :	CG0062001	VERSION :	2		
OPERATOR :	DWR CYMRU CYFYNGEDIG				
DISCHARGE SITE :	LLANRWST STW LLANRWST CONWY				
EXTANT CONSENT ISSUE DATE :	28/03/2003	EFFECTIVE DATE :	01/04/2003		
DWF (m ³ /day) :		MAX DAILY VOL. (m ³ /day) :	UNSPECIFIED	RATE (l/s) :	

Records held on WIMS show LLANRWST STW LLANRWST CONWY (CG0062001) to be extant under version 2 issued 28/03/2003 with descriptive consent conditions, effective 01/04/2003. The works is currently consented to discharge a max daily volume of UNSPECIFIEDm³/day effluent to the THE AFON CONWY at NGR SH7947761781.

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

The discharge of UNSPECIFIEDm³/day effluent to 'THE AFON CONWY', for the purposes of this review, is described as 'irrelevant (intermittent discharge that does not qualify under UWWTD)'. This treatment / receiving water combination has been assessed* as NON UWWTD under the UWWTD review. This consent is reviewed as NON UWWTD 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)