



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:	<i>Official Use Only</i>
	<i>Dist/Area Ref:</i>
	<i>Application No.</i> CG 0078601
	<i>Date Received:</i> 31/10/03
	<i>Fee Received:</i> 31/10/03

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.

Caernarfon WwTW Inlet Pumping Station (6mm screen consent)
Caernarfon Waste Water Treatment Works,
Ffordd Santes Helen (St Helens Road)
Caernarfon,
Gwynedd.

Post Code:

LL55 2YG

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*) ☐

N/A

2.2 Please state the maximum quantity it is proposed to discharge in any one day

Average Spill
Volume = 289m3

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

Detailed criteria contained in Caernarfon uCSO Study (phase 3 report) reference RT-NW-2292-02. The results are from the Hydroworks Model.

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*) ☐

750 mm dia. (via surface water culvert)

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

S	H	4	8	0	0	9	6	1	8	9	0
---	---	---	---	---	---	---	---	---	---	---	---

(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*)

N/A

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

S	H	4	8	0	8	7	6	1	9	0	8
---	---	---	---	---	---	---	---	---	---	---	---

(please indicate on accompanying plans)

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

Not Applicable

- 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 ☒

Screening: The first 400l/s of spill is pumped and screened through 6mm Mechanically raked mesh screen (Type: Huber Rotamat Stormscreen). Flows in excess of 400 l/s are screened via an 10mm bar screen (see separate consent).

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

☒ Y/N

N/A

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

31/12/03

- 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.

Under Storm Conditions

- 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*).

Consent No. CG0078601

- 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.

N/A

3 SITE DETAILS

- 3.1 Please give the name of the relevant Planning Authority.

Gwynedd County Council

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

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

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

- | | | | |
|--|-------------------------------------|---|--------------------------|
| 1. Well | ☐ | 5. River (please give name below) | ☐ |
| 2. Borehole | ☐ | 6. Estuary (please give name below) | ☐ |
| 3. Precipitation (eg rain or snow) | ☐ | 7. Coastal Water (please give name below) | ☐ |
| 4. Mains (please state water supply company) | ☒ | | |

Dwr Cymru Welsh Water

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) | ☐ | 5. Into Land | ☐ |
| 2. River or Stream (non-tidal) | ☒ | 6. Onto Land | ☐ |
| 3. Canal | ☐ | 7. Directly into Groundwater | ☐ |
| 4. Lake, Lock or Pond | ☐ | 8. Coastal Water (see note vii) | ☐ |

State name of receiving water if known:

Afon Seiont (River Seiont). The discharge point is immediately upstream of the normal tidal limit of River Seiont. The river will experience tidal influence on extreme tidal events.

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? ☒

(b) Is any part of the system within 10 metres of a watercourse? ☒

(c) Is any part of the system within 50 metres of a borehole or spring? ☒

(d) For wells and boreholes state dimension(s) in metres.

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

(f) For boreholes, state details of lining in metres: **NOT APPLICABLE**

(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? **NOT APPLICABLE**

☒

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

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

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: 01443 452300

Company Registration Number (if appropriate): 2366777

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

*

*

*

*

*

*

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: N/A

*

*

*

*

*

*

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.

N/A

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)

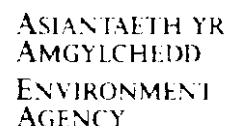
SIGNED: *J. P. Edwards* PRINT NAME: *J. P. Edwards*
ON BEHALF OF:DWR CYMRU CYF..... DATED: *10/10/03*

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



SEWAGE EFFLUENT DISCHARGED IN STORM OR EMERGENCY CONDITIONS

Official Use Only
Application No.

Caernarfon WwTW Inlet Pumping Station (6mm screens consent),
Caernarfon.

7

7

X

7

7

7

N/A

¥/N

S	H	4	8	0	2	9	6	1	8	2	3
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CG0078501

[illegible][illegible]

5. Overflow settings

a)	Overflow setting to storm tanks	N/A
b)	Maximum flow to storm tanks	N/A
c)	Overflow setting to storm sewage overflow	219 l/s
d)	Maximum flow to storm sewage overflow	400 l/s 30 year design storm

6. Storage capacity

a)	Volume of Storm tanks	N/A
b)	Retention time of storm tanks at maximum flow	N/A
c)	Storage capacity of sewer/wet well	240 m ³ in emergency 120 m ³ in storm

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

Design criteria contained in Caernarfon uCSO study (Phase 3) reference RT-NW-2292-02 Oct 2003.

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

Y/~~N~~

If yes, please give details.

Alarms provided for failure of pumps in emergency condition. Telemetry facilities provided to monitor frequency and duration of spills.

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).

The first 400 l/s of spill is pumped and screened through 6mm mechanically raked mesh screen (Type: Huber Rotamat Stormscreen). Spills in excess of 400 l/s up to 624l/s are screened to 10mm standard (covered by a separate consent)

10. What provisions will be made to deal with:

a) power failure (eg standby generators)?

Automatic standby generation & emergency storage (40min @ 3DWF)

b) mechanical breakdown (eg standby pumps)?

Pumps operate on a duty/assist basis.

c) rising main failure?

Not Applicable

d) tanker access?

Yes-site road located adjacent to Inlet Pumping Station

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.

Caernarfon Waste Water Treatment Works,
Caernarfon.

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. Laundrette, LL55 1RB – wastewater derived from the washing of laundry only.
2. Slaughtering/meat processing, LL55 2BD – wastewater from an abattoir after screening and settlement.
3. Coach & Bus Washing, LL55 2BD – effluent from a bus wash after an oil interceptor.
4. Public Swimming Pool, LL55 1DU – swimming pool water & filter backwash water.

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?

☒ N

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

N/A

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

N/A

4. Rainfall Independent Discharges

a) What is the maximum rate of discharge?

N/A

b) What is the average daily flow?

N/A

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

i) give the abstraction licence number

N/A

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

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(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*)

N/A

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

N/A

- b) Will the discharge be monitored for temperature? ~~Y~~/N
If yes, please give details of type and location (*please indicate on plan*)

N/A

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.

N/A

- b) Contact name of case officer.

N/A

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? N
If yes, please give details.

Not Applicable

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.*



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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.

Caernarfon Waste Water Treatment Works (6mm screen consent),
Caernarfon

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

☒ Y/☐ N

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

N/A

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):

750 mm

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

N/A

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:

N/A

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:
Annexe 2 only. Annexe 1 not applicable. See accompanying application for variation of existing final effluent

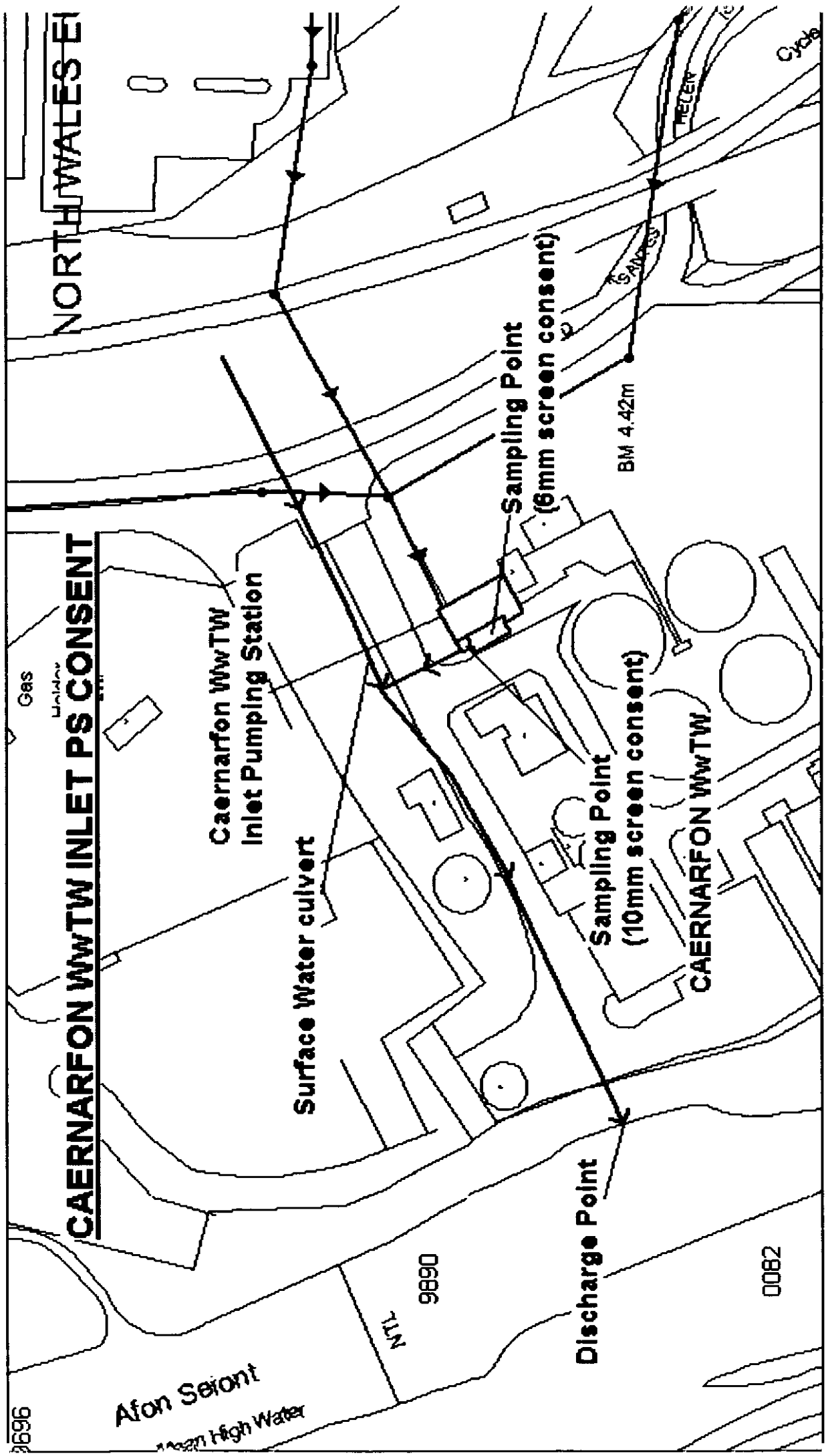
Tick

8. Please state:

Population served (head)	10765 residential; 2945 tourists;
Consumption (l/head/day) default = 180	180 l/hd/d residential; 71 l/hd/d tourist
Infiltration (m ³ /day)	1452
Industrial effluent flow (m ³ /day)	218.6 (consented trade effluent plus other metered consumption)
Dry Weather Flow (m ³ /day)	3818
SOC A (l/sec)	218.7
Predicted spill frequency (per annum)	31

IMPORTANT NOTES FOR ALL CONSENT APPLICATIONS:

- 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.**
- Agents making an application on behalf of a client, must attach their clients written authority.**
- 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.**



CAERNARFON WWTW INLET PS CONSENT

NORTH WALES E

Gas

METER

Caernarfon WWTW
Inlet Pumping Station

Surface Water culvert

Sampling Point
(6mm screen consent)

BM 4.42m

Sampling Point
(10mm screen consent)

CAERNARFON WWTW

Discharge Point

Afon Seront
Mean High Water

NTL

9890

0082