

CONSENT NO.	CG0375401
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ASiantaeth Yr
Amgylchedd
Environment
Agency

WATER RESOURCES ACT 1991

SECTION 88 - SCHEDULE 10

(AS AMENDED BY THE ENVIRONMENT ACT 1995)

CONSENT TO DISCHARGE

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



CG0375401_2006_03_01

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

Sewage in an Emergency

FROM: Porthmadog Sewage Treatment Works, on site Sewage Pumping Station

AT: Porthmadog

TO: The Glaslyn Estuary within Glaslyn Marshes

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

Sewage in an Emergency

Schedule No. CG037540101

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 this consent, without the agreement in writing of the consent holder, during a period of 4 years from the date this consent is issued.

This consent is issued and takes effect on the 5th day of May 1998

Signed
Water Quality Consents Team Leader

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

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



CONSENT NO.	CG0375401
SCHEDULE NO.	CG037540101
DATE ISSUED	5th May 1998



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ENVIRONMENT
AGENCY**

CONDITIONS OF CONSENT TO DISCHARGE

Sewage in an Emergency ("the Discharge")

FROM: Porthmadog Sewage Treatment Works on site Sewage Pumping Station

NATURE

- 1 The Discharge shall consist solely of sewage in an emergency.
- 2 The discharge shall only occur when:
 - (a) The sewage treatment works and the sewage pumping control system is inoperative not due to the act or default of the consent holder, its agents, representatives, officers, employees or servants, or;
 - (b) The on site sewage pumping station is inoperative as a result of one or more of the following;
 - (i) electrical power failure not due to the act or default of the consent holder, its agents, representatives, officers, employees or servants;
 - (ii) mechanical breakdown of duty and standby pumps;

and it is not reasonably practicable to dispose of the Discharge otherwise. There shall be no undue delay on the part of the consent holder in remedying any such failure or breakdown.

LOCATION

- 3 The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 450 millimetre diameter pipe;
 - (b) discharging to the Glaslyn Estuary within Glaslyn Marshes;
 - (c) at National Grid Reference SH 5736 3890 ;
 - (d) shown marked 'Discharge point ' on Plan CG0375401 attached as Annex 2.



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CONDITIONS OF CONSENT TO DISCHARGE

Sewage in an Emergency ("the Discharge")

FROM: Porthmadog Sewage Treatment Works on site Sewage Pumping Station

NATURE

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 - (a) The sewage treatment works and the sewage pumping control system is inoperative not due to the act or default of the consent holder, its agents, representatives, officers, employees or servants, or;
 - (b) The on site sewage pumping station is inoperative as a result of one or more of the following:
 - (i) electrical power failure not due to the act or default of the consent holder, its agents, representatives, officers, employees or servants;
 - (ii) mechanical breakdown of duty and standby pumps;

and it is not reasonably practicable to dispose of the Discharge otherwise. There shall be no undue delay on the part of the consent holder in remedying any such failure or breakdown.

LOCATION

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 - (a) discharging via a 450 millimetre diameter pipe;
 - (b) discharging to the Glaslyn Estuary within Glaslyn Marshes;
 - (c) at National Grid Reference SH 5736 3890 ;
 - (d) shown marked 'Discharge point' on Plan CG0375401 attached as Annex 2.



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SAMPLE POINT

- 4 An appropriately labelled sample point shall be provided and maintained at National Grid Reference SH 5743 3901, as shown marked 'Sampling Point' on Plan CG0375401, 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.

COMPOSITION

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

RECORDING AND REPORTING

- 6 (a) The consent holder shall establish and operate a documented maintenance programme and record all non-routine actions undertaken which may have adversely affected effluent quality and/or operational performance of the discharge. 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.
- 7 The consent holder shall notify the Agency in writing if any known introduction or material change, in respect of discharges from trade premises to the sewerage system, occurs that may increase or introduce into the effluent any "dangerous substance" included on Lists I, II or Red List (set out in Annex 1 to this notice as updated by the Agency from time to time, and notified to the consent holder in writing), or any other substance considered by the consent holder as having or likely to have a significant effect on the receiving waters.



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VOLUME

- 8 A storage facility of 10 cubic metres design capacity shall be provided and fully utilized prior to discharge being made.

OTHER

- 9 (a) A 24 hour response telemetry alarm system shall be provided and maintained to give notification of any failure or breakdown of the pumping station.
- (b) The consent holder shall take all reasonable remedial measures to return the pumping station to normal operation, as soon as practicable after receipt of warning of failure or breakdown of the pumping station.
- (b) The consent holder shall notify the Agency, as soon as practicable, when there is potential for operation of the emergency overflow in the event of failure or breakdown of the pumping station.
- 10 On request the consent holder shall supply the Agency with a written report on the operation of the emergency overflow.
- 11 A permanent stand-by generator shall be provided and maintained in good working order.
- 12 The duty pump(s) shall be maintained in good working order, and at least one stand-by pump shall be provided and maintained.
- 13 Stand-by pump(s) shall automatically activate should the duty pump(s) become inoperative for reasons other than power failure. The pumping station shall be maintained so that the pump(s) shall automatically reactivate immediately after the power is restored after the interruption to the supply.

START DATE

- 14 There shall be no discharge under the terms of this consent until the 1st May 1999 or the end of commissioning of the works whichever is the sooner. The consent holder shall give the Agency at least 28 days written notice before making the discharge.



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ANNEX 1

SUBSTANCE

Mercury
Cadmium
g-Hexachlorocyclohexane
DDT
Pentachlorophenol
Hexachlorobenzene
Hexachlorobutadiene
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
Tetrachloroethylene
Lead
Chromium
Zinc
Copper
Nickel
Arsenic
Iron
pH
Boron

Vanadium
PCSDs
Cyfluthrin
Sulcofuron
Flucofuron
Permethrin
Cyanide
Azinphos-ethyl
Fenthion
Parathion
Parathion-methyl
Trichloroethane
Dioxins
Isodrin



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AMGYLCHEDD
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CONDITIONS OF CONSENT TO DISCHARGE

Sewage in an Emergency ("the Discharge")

FROM: Porthmadog Sewage Treatment Works on site Sewage Pumping Station

NATURE

- 1 The Discharge shall consist solely of sewage in an emergency..
- 2 The discharge shall only occur when:
 - (a) The sewage treatment works and the sewage pumping control system is inoperative not due to the act or default of the consent holder, its agents, representatives, officers, employees or servants, or;
 - (b) The on site sewage pumping station is inoperative as a result of one or more of the following;
 - (i) electrical power failure not due to the act or default of the consent holder, its agents, representatives, officers, employees or servants;
 - (ii) mechanical breakdown of duty and standby pumps;

and it is not reasonably practicable to dispose of the Discharge otherwise. There shall be no undue delay on the part of the consent holder in remedying any such failure or breakdown.

LOCATION

- 3 The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 350 millimetre diameter pipe;
 - (b) discharging to the Glaslyn Estuary within Glaslyn Marshes;
 - (c) at National Grid Reference SH 5736 3890 ;
 - (d) shown marked 'Discharge point ' on Plan CG0375401 attached as Annex 2.





**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:

Environment Agency
Rivers House
St. Mellons Business Park
St. Mellons
Cardiff CF5 0LT

Official Use Only

Dist/Area Ref: ~

Application No.

CG0375401

Date Received:

7/1/98

Fee Received: £537.

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

NOTE:

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

1 SITE ADDRESS

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

PORTHMAEGOG WWTW ON SITE SEWAGE SPS

Post Code:

2 DETAILS OF DISCHARGE(S)

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

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

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

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

Cooling Water (complete annexe 3) ☐

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

Others (please specify) ☐

* ON SITE SPS RETURNING SITE DRAINAGE, INTERMITTENT WASHDOWN,
TO WORKS INLET - BORTHMADOG WWTW

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

28.9 l/s m³/day

IF IN EMERGENCY SNOWDON SPS CONTINUED TO PUMP UP TO
WWTW WHEN EMERGENCY HAD CAUSED FAILURE OF WWTW.
INLET WOULD SPILL TO OVERFLOW AT THE 'ON SITE SPS'.
(SEE REPORT RT-NW-554.01 SECTION 2 PAGE 5)

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) ☐

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

S H / S 7 3 6 / 3 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)

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

S H / S 7 4 3 / 3 9 0 1 (please indicate on accompanying plans)

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

NA

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) | ☐ | | |

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, Loch or Pond | ☐ | 8. Coastal Water (see note vii) | ☐ |

State name of receiving water if known:

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

- (a) Is any part of the system within 5 metres of the boundary of the premises?
- (b) Is any part of the system within 10 metres of a watercourse?
- (c) Is any part of the system within 50 metres of a borehole or spring?
- (d) For wells and boreholes state dimension(s) in metres.
- (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?

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.).

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 CYFYNGEDIG
PLAS - Y - FFYNNON
CAMBRIAN WAY
BRECON

Post Code: LD3 7HP

Daytime Telephone Number:

Company Registration Number (if appropriate):

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

*

*

*

*

*

*

*

Post Code:

Contact Name and Daytime Telephone Number:

5.2

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

*

*

*

*

*

*

*

Post Code:

Daytime Telephone Number:

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

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 ☐

N/A

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

N/A

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

01/05/99

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

N/A /

to:

N/A /

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

IN EMERGENCY CONDITIONS

2.7 a) Are there any existing consents for discharge from the premises (see note vi)? ☐ Y/N

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

PORTHMADDG WWTW CONSENTS CG 051701

b) Has any person had a Prohibition Notice served on them in respect of this site? ☐ Y/N

If yes, please give the reference number.

3 SITE DETAILS

3.1 Please give the name of the relevant Planning Authority.

GWYNEDD

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

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

DECLARATION

I/We:

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

(* Delete as appropriate)

SIGNED: A.R. Andrews

PRINT NAME: ANDREWS

ON BEHALF OF: D.W. Gwynn

DATED: 6-1-98

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



ENVIRONMENT AGENCY

ANNEXE 2

SEWAGE EFFLUENT DISCHARGED IN STORM OR EMERGENCY CONDITIONS

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

Official Use Only
Application No.

C60375401

1. Site Name.

PORTHMADEG WWTW

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

Storm tanks

☐

Combined Sewer Overflow from sewerage system

☐

Combined Sewer Overflow from pumping station

☐

Emergency overflow from sewerage system

☐

* Emergency overflow from pumping station

☒

Other (please specify)

☐

* ON SITE SPS FOR RETURNING SITE DRAINAGE, INTERMITTENT WASHDOWN TO INLET.

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

Y/N

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

S 4 / 5 7 3 6 / 3 8 9 0

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

PORTHMADEG WWTW CONSENT

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

□ □ / □ □ □ □ / □ □ □ □

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

N/A

Y/N

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

□ □ / □ □ □ □ / □ □ □ □

5. Overflow settings

- | | |
|---|---------|
| a) Overflow setting to storm tanks. | N/A l/s |
| b) Maximum flow to storm tanks. | N/A l/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. | N/A m ³ |
| b) Retention time of storm tanks at maximum flow. | N/A hours |
| c) Storage capacity of sewer/wet well. | 10 m ³ |

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

SCHEME DESIGNED AS OUTLINED IN REPORT RT-NW-554-01
(PAGE 6)

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

☒ Y/☐ N

If yes, please give details.

TELEMETRY ALARMS TO CONTROL CENTRE

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).

10 mm BAR SPACING, STATIC SCREEN

10. What provisions will be made to deal with:

a) power failure (eg. standby generators)?

STANDBY GENERATOR AT WWTW

b) mechanical breakdown (eg. standby pumps)?

SEE SECTION B2 REPORT RT-NW-554-01 STANDBY PROVISIONS MECHANICAL BREAKDOWN
(PAGE 18)

c) rising main failure?

N/A

d) tanker access?

N/A

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.



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ANNEXE 4
WELSH REGION SUPPLEMENTARY INFORMATION ANNEXE

This annexe must be completed for every proposed discharge.

Official Use Only
Application No:
CG0375401

All proposed discharges:

1. Site Name: Porthmadog WWTW - ON SITE DRAINAGE, WASH WATER RETURN, SUPERNATANT TO INLET SPS. LINDAS
2. If the proposed discharge is to be made down a pipe, channel or culvert (as given in Section 2.3 in the main application form), state the diameter (including units): 450 mm
3. Please indicate the anticipated costs of the proposed scheme, including any alternatives which may have been considered:
-

4. Is there any trade component in the proposed discharge? Y/X
- If yes, please confirm here that you have completed and enclosed Annex 3: Tick
AS SHOWN FOR Porthmadog WWTW

For proposed discharges of sewage in storm or emergency conditions:

5. Please confirm here that you have completed and enclosed both Annexes 1 and 2:
- Annexe 1 N/A Tick
Annexe 2 ✓
6. Please state:
- Population served (head) N/A - THE SPS IS AN
- Consumption (l/head/day) default = 180 INTERNAL PUMPING STATION
- Infiltration (m³/day) RETURNING LIQUORS, ETC TO
- Industrial effluent flow (m³/day) Porthmadog WWTW INLET.
- Dry Weather Flow (m³/day)
- SOCA (m³/sec)
- Predicted spill frequency
- SPILL IN EMERGENCY AS INDICATED
- IN EVENT OF POWER LOSS AT WWTW
- OR LOSS OF PUMPING SYSTEMS AT STATION

Important Note:

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' (e.g. 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.



