

- 3 JUN 1999



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)

- 1 JUN 1999

**RECEIVED**

**Regional/Area Address:**

Regional Finance Manager  
Environment Agency  
P.O Box 663  
Cardiff CF2 1YD



Official Use Only

Dist/Area Ref: WEP2

Application No. B80278901

Date Received: 01/06/99

Fee Received: £724-97

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.

**1 SITE ADDRESS**

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

Llyn y fan Trout Hatchery, Llanddeusant, Llangadog,  
Near Llandeilo, Carmarthenshire

Post Code:

SA19 9UN

## 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) ☐

Fish Farming

2.2 Please state the maximum quantity it is proposed to discharge in any one day  m<sup>3</sup>/day  
Briefly state how this figure was calculated (see note ii).

See Supplementary Notes ..... Flows to be metered.

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) ☐

See Supplementary Notes & Plan.

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

/     /     (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)

See Supplementary Notes

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

/     /     (please indicate on accompanying plans)

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

Meter

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 ☒

Overflow from rearing unit passes through a stone chip media (25mm) 600mm thick on base of unit into perforated pipe matrix & then into settlement lagoon.

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

No

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

already in operation - Continuous discharge

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.

N/A

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

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

NO

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

If yes, please give the reference number.

NO

### 3 SITE DETAILS

3.1 Please give the name of the relevant Planning Authority.

Carmarthenshire County Council

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

1. Single Dwelling ☐

2. Multiple Dwellings ☐

3. Industrial Premises ☐

4. Vehicle Parking Area ☐

5. Commercial Premises (please specify) ☐

6. Fish Farm ☒

7. Mineral Workings ☐

8. Water Services plc STW ☐

9. Water Supply ☐

10. Other (please specify) ☐

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 type="checkbox"/> |                                           |                          |

Welsh Water - Raw Water  
feed main.

#### 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, Loch or Pond                      | <input type="checkbox"/>            | 8. Coastal Water (see note vii) | <input type="checkbox"/> |

State name of receiving water if known:

River Sawdde

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? ☐ Y/N
- (b) Is any part of the system within 10 metres of a watercourse? ☐ Y/N
- (c) Is any part of the system within 50 metres of a borehole or spring? ☐ Y/N
- (d) For wells and boreholes state dimension(s) in metres.  m
- (e) For sub-irrigation systems, soakaway pits, wells and boreholes, state maximum depth in metres.  m
- (f) For boreholes, state details of lining in metres:
- (i) Depth of lining  m
- (ii) Depth of perforated lining  m
- (iii) Depth of unperforated lining  m
- (g) A percolation test must be carried out in accordance with British Standard BS6297:1983.  
Have the results been provided? ☒ NO ☐ Y/N

4.3 Is there a foul sewer available to which the discharge(s) could be made (see note viii)? ☐ Y/N  
If yes, please give the reasons it is not practical to connect to it (eg. distance, flow etc.).

N/A

## 5 DETAILS OF APPLICANT AND OTHER INFORMATION

### 5.1 (See general notes and note ix)

- (a) Full name and postal address of applicant. This should be the person who will become the consent holder should consent be issued.

\*  
\*  
\*  
\*  
\*  
\*

Ms Olwen Hardwick  
Llyn y fan Trout Hatchery  
Llanddensant, Llangadog, Near Llandeilo  
Carmarthenshire

Post Code:

SA19 9UN

Daytime Telephone Number:

01550 - 740208

Company Registration Number (if appropriate):

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

\*  
\*  
\*  
\*  
\*  
\*

J. H. ASTILL & ASSOCIATES

Soil & Water Engineers

DRYSLWYN, LLANAFAN

ABERYSTWYTH, DYFED : SY23 4AX

Post Code:

Tel: CROSSWOOD ~~0974 31237~~ 01974 - 261237

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.

See Supplementary Notes

# 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: O. J. Hardwick PRINT NAME: O. J. HARDWICK

ON BEHALF OF: ..... DATED: 27/5/99

o o o

## 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 3

### TRADE EFFLUENT DISCHARGES

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

*Official Use Only*  
Application No.

1. Site Name.

Llyn-y-fan Trout Hatchery, Llanddeusant, Llangadog  
Near Llandeilo, Carmarthenshire : SA19 9UN

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

Fish farming

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).

Settlement lagoon after gravel bed filtration. See  
Supplementary Notes & Plan.

3. Rainfall Dependent Discharges

a) Is the volume going to be rainfall dependent?

NO

☒ N

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

N/A

m<sup>2</sup>

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

NONE

4. \* Rainfall Independent Discharges

\* See Supplementary Notes.

a) What is the maximum rate of discharge?

l/s

b) What is the average daily flow?

m<sup>3</sup>/d

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

i) give the abstraction licence number.

22/60/1/1

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

/ 8 0 3 0 / 2 3 0 5 ? (please mark on the plan)

5. a) Will any self monitoring take place?

☒ N

If yes, please give details.

No

- b) Will automatic sampling equipment be provided?

☒ N

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

No

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

Ambient

- b) Will the discharge be monitored for temperature?

☒ N

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

Only occasionally

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

☒ N

NO

If yes, please complete the following:

- a) The application reference.

N/A

- c) 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.

| 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 at last Check |                      |     | 6-8  |
| Cyfluthrin                     |                      |     |      | Phosphorus                      |                      |     |      |
| DDT                            |                      |     |      | Polychlorinated biphenyls       |                      |     |      |
| 1,2 Dichloroethane             |                      |     |      | Simazine                        |                      |     |      |
| Dichlorvos                     |                      |     |      | 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

*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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AMGYLCHEDD  
ENVIRONMENT  
AGENCY

## ANNEXE 4

### WELSH REGION SUPPLEMENTARY INFORMATION ANNEXE

Please complete this annexe for every proposed discharge.

*Official Use Only*  
Application No.

#### For all proposed discharges:

1. Site Name.

Llyn-y-fan Trout Hatchery, Llanddeusant, Llangadog  
Near Llandeilo, Carmarthenshire SA19 5UN.

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

NO

☒ 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 in the main application form), please state the diameter (including units):

Over Sill from Settlement.

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?

☒ N

NO

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

Tick

N/A





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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 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

N/A

8. Please state:

|                                                |  |
|------------------------------------------------|--|
| Population served (head)                       |  |
| Consumption (l/head/day) default = 180         |  |
| Infiltration (m <sup>3</sup> /day)             |  |
| Industrial effluent flow (m <sup>3</sup> /day) |  |
| Dry Weather Flow (m <sup>3</sup> /day)         |  |
| SOCA (l/sec)                                   |  |
| Predicted spill frequency (per annum)          |  |

**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' (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.
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.



**J. H. ASTILL  
& ASSOCIATES**  
Soil & Water Engineers

Dryslwyn  
Llanafan  
Aberystwyth  
Dyfed : SY23 4AX  
Tel: Crosswood (01974) 261237

Regional Finance Manager  
Environment Agency  
PO BOX 663  
Cardiff  
CF2 1YD

OUR REF : P1.02

27th May 1999

Dear Sir

**ENVIRONMENT ACT 1995**  
**DISCHARGE CONSENT APPLICATION**  
**OLWEN HARDWICK, LLYN Y FAN TROUT HATCHERY**

Enclosed herewith is the application form, annexes, plans and supplementary information.

Our clients cheque to the value of £724.97 in respect of the application charge is also enclosed.

Yours sincerely



J H ASTILL



## **LLYN-Y-FAN TROUT HATCHERY : APPLICATION TO DISCHARGE - SUPPLEMENTARY INFORMATION.**

- (1) The trout rearing unit is based on an ex Welsh Water filtration structure of concrete and masonry construction.
- (2) The feed water enters the unit from an existing raw water feed main (Believed to be 350mm dia) via a 250mm dia spur, the supply is valved so that the rate of flow can be regulated and it is metered .
- (3) The existing structure (A & B) is divided up into a number of compartments to accomodate various sizes of fish etc. Average water depth is 2.4m.
- (4) Water exits the unit through a filter media of 25mm stone chips laid on the bed of the structure (Approximately 600mm deep) After passing through this it enters a matrix of perforated pipework installed on the bed of the structure which passes the flow into an open settlement lagoon at (C)
- (5) After settlement, the overflow water passes through a notch in the wall of the lagoon and enters the river at point (D)
- (6) The sampling point is in the river just below point (D) After discussion with our client the inspecting EA officer agreed to this sampling point.
- (7) The rate of discharge is obviously equal to the rate of flow entering the unit from the 250mm dia spur off the raw water main. However, there are no accurate flow figures available at present, but there is a meter on the raw water main downstream of the rearing unit and another new meter has been installed upstream of the unit and precise figures will be available very soon following a monitoring exercise, these will be passed on to you as soon as possible.
- (8) Typical fish stocks at this particular unit are as follows :-  
  
Rainbow Trout - average 1.00 lb ..... Approximately 3000  
  
Brown Trout - average 0.25 lb .... Approximately 3500  
  
Total weight of fish = 3875 lbs.

(9) Although the water is conveyed along the adjacent roadway in a 350mm diameter pipe, the actual flow rate into the unit via the 250mm diameter spur is controlled by a valve and is very much less than the rate of flow permitted by the Abstraction Licence granted to Welsh Water. Accurate figures will be submitted to you after a period of monitoring when the precise measured volumes are known.

## **NOTES ON ABSTRACTION RATE Vs DISCHARGE RATE**

The Abstraction Licence is held by Welsh Water under the Licence Number 22/60/1/1

Maximum Annual Rate = 3,783,181 m<sup>3</sup>

Maximum Daily Rate = 10,364 m<sup>3</sup>

Conditions : Compensation Flow to be 455 m<sup>3</sup> per day, except in September and October when it will be increased to 1818 m<sup>3</sup> per day.

But please note that the flow through the unit and the subsequent rate of discharge is considerably less than this because the unit is fed via a spur off the raw water main and the flow is throttled back by a control valve.

The actual rate of flow is now being monitored by metered flow readings and the actual figures will be passed on to you as soon as they are available.