

# Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

---

Dŵr Cymru Cyfyngedig

Cilfor Water Treatment Works  
Talsarnau  
Gwynedd  
LL47 6YL

Variation application number  
CG0353601/V001

Permit number  
CG0353601

# **Cilfor Water Treatment Works**

## **Permit Number CG0353601**

### **Introductory note**

**This introductory note does not form a part of the notice.**

The following notice gives notice of the variation and consolidation of an environmental permit.

The variation is required to reflect new drinking water treatment processes on site. The most significant change is the addition of iron and aluminium limits to regulate the potential use of iron and aluminium as coagulants in the new treatment processes.

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

| <b>Status log of the permit</b>                                |                         |                                                                   |
|----------------------------------------------------------------|-------------------------|-------------------------------------------------------------------|
| <b>Description</b>                                             | <b>Date</b>             | <b>Comments</b>                                                   |
| Permit determined<br>CG0353601                                 | 24/09/09                | OSM modification (regulator initiated variation).                 |
| Application<br>CG0353601/V001<br>(variation and consolidation) | Duly made<br>06/07/2011 | Application to vary and update the permit to modern conditions.   |
| Variation determined<br>CG0353601/V001                         | 27/09/2011              | Varied and consolidated permit issued in modern condition format. |

End of Introductory note

## Notice of variation and consolidation

Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

**Permit number**  
**CG0353601**

**issued to:**  
**Dŵr Cymru Cyfyngedig** (“the operator”)

whose registered office is

**Pentwyn Road**  
**Nelson**  
**Treharris**  
**Mid Glamorgan**  
**CF46 6LY**

company registration number **02366777**

to operate a regulated facility at

**Cilfor Water Treatment Works**  
**Talsarnau**  
**Gwynedd**  
**LL47 6YL**

to the extent set out in the schedules.

The notice shall take effect from 30/09/2011

Name

Date

|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Christopher Hall</b> | <b>27<sup>th</sup> September 2011</b> |
|-------------------------|---------------------------------------|

Authorised on behalf of the Environment Agency

**Schedule 1**

All conditions have been varied by the consolidated permit as a result of the application made by the operator.

**Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

The Environmental Permitting (England and Wales) Regulations 2010

**Permit number**  
**CG0353601**

This is the consolidated permit referred to in the variation and consolidation notice for application CG0353601/V001 authorising,

**Dŵr Cymru Cyfyngedig** (“the operator”),

whose registered office is

**Pentwyn Road**

**Nelson**

**Treharris**

**Mid Glamorgan**

**CF46 6LY**

company registration number **02366777**

to operate a water discharge activity at

**Cilfor Water Treatment Works**

**Talsarnau**

**Gwynedd**

**LL47 6Y**

to the extent authorised by and subject to the conditions of this permit.

| Name                    | Date                                  |
|-------------------------|---------------------------------------|
| <b>Christopher Hall</b> | <b>27<sup>th</sup> September 2011</b> |

Authorised on behalf of the Environment Agency

# Conditions

## 1 Management

### 1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances and those drawn to the attention of the operator as a result of complaints; and
  - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

## 2 Operations

### 2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

### 2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green and the discharge shall be made at the point marked on the site plan at schedule 7 to this permit and as listed in table S3.2 (discharge points).

## **3 Emissions and monitoring**

### **3.1 Emissions to water**

- 3.1.1 There shall be no point source emissions to water except from the sources and emission points listed in schedule 3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.

### **3.2 Emissions of substances not controlled by emission limits**

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
  - (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan;
  - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

### **3.3 Monitoring**

- 3.3.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
  - (a) point source emissions specified in tables S3.1 and S3.3.
- 3.3.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.3.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.3.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2 and S3.3 unless otherwise agreed in writing by the Environment Agency.
- 3.3.5 The monitoring programme for the determinands subject to schedule 3B shall be:

- (a) pre-scheduled to cover a calendar year and the programme recorded before the start of a calendar year sample period; and
  - (b) spot samples collected at approximately equal intervals during the year, including samples from different days of the week and different times. Approximately 10% of samples should be outside the normal sampling window which is 9am-3pm, Monday to Friday.
- 3.3.6 After becoming aware, or following a notification that a sample has not been taken on the schedule 3B Monitoring Programme pre-scheduled date, or is lost, or a result for that sample can not be reported, the operator shall record the details and reschedule the sample.

## **4 Information**

### **4.1 Records**

- 4.1.1 All records required to be made by this permit shall:
  - (a) be legible;
  - (b) be made as soon as reasonably practicable;
  - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
  - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

### **4.2 Reporting**

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
  - (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
  - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.2; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

## 4.3 Notifications

- 4.3.1 The Environment Agency shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
  - (b) the breach of a limit specified in the permit; or
  - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
  - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- Where the operator is a corporate body other than a registered company:
- (a) any change in the operator's name or address; and
  - (b) any steps taken with a view to the dissolution of the operator.
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Environment Agency shall be notified at least 14 days before making the change; and
  - (b) the notification shall contain a description of the proposed change in operation.

## 4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.

## Schedule 1 - Operations

| Table S1.1 Activities                                                 |                              |
|-----------------------------------------------------------------------|------------------------------|
| Description of activity                                               | Limits of specified activity |
| Discharge of trade effluent consisting of analyser waste via outlet 1 | N/A                          |

## **Schedule 2 - Waste types, raw materials and fuels**

Wastes are not accepted as part of the permitted activities and there are no restrictions on raw materials or fuels under this schedule.

## Schedule 3 – Emissions and monitoring

| Table S3.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements |                                                    |                              |                             |                          |                             |                      |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------|-----------------------------|--------------------------|-----------------------------|----------------------|
| Discharge source and discharge point ref. & location                                                        | Parameter                                          | Limit (including unit)       | Reference Period            | Limit of effective range | Monitoring frequency        | Compliance Statistic |
| Trade effluent consisting of analyser waste via outlet 1                                                    | Maximum daily discharge volume                     | 90 m <sup>3</sup> /day       | Total daily volume          | N/A                      | N/A                         | Maximum              |
|                                                                                                             | Maximum rate of discharge                          | 2 litres per second          | Instantaneous (spot sample) | N/A                      | N/A                         | Maximum              |
|                                                                                                             | Suspended solids (measured after drying at 105° C) | 60 mg/l                      | Instantaneous (spot sample) | N/A                      | As specified in schedule 3B | Maximum              |
|                                                                                                             | Total available chlorine                           | 50 µg/l                      | Instantaneous (spot sample) | N/A                      | As specified in schedule 3B | Maximum              |
|                                                                                                             | pH                                                 | 6 to 9                       | Instantaneous (spot sample) | N/A                      | As specified in schedule 3B | Minimum and maximum  |
|                                                                                                             | Total iron as iron                                 | 5000 µg/l                    | Instantaneous (spot sample) | N/A                      | As specified in schedule 3B | Maximum              |
|                                                                                                             | Aluminium                                          | 1000 µg/l                    | Instantaneous (spot sample) | N/A                      | As specified in schedule 3B | Maximum              |
|                                                                                                             | Visible oil or grease                              | No significant trace present | Instantaneous (spot sample) | N/A                      | N/A                         | No significant trace |

| <b>Table S3.2 Discharge points</b>          |                        |                            |                                    |
|---------------------------------------------|------------------------|----------------------------|------------------------------------|
| <b>Effluent Name</b>                        | <b>Discharge Point</b> | <b>Discharge point NGR</b> | <b>Receiving water/Environment</b> |
| Trade effluent consisting of analyser waste | Outlet 1               | SH 62050 37810             | Nant-yr-Efail                      |

| <b>Table S3.3 Monitoring points</b>         |                        |                             |
|---------------------------------------------|------------------------|-----------------------------|
| <b>Effluent and discharge point</b>         | <b>Monitoring type</b> | <b>Monitoring point NGR</b> |
| Trade effluent consisting of analyser waste | Effluent sample point  | SH 62150 37680              |

## Schedule 3B – Opra tier 2 sampling frequency

| Tier 2 Category                                                                                                                                                             | Determinand  | `Normal frequency` of samples per year | Reduced Sampling frequency after 12 consecutive months of numeric consent compliance, samples per year or pro rata over the remainder of a year | On consent failure return to normal frequency as soon as reasonably practicable, samples per 12 months | Out of hours samples                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| > 5m <sup>3</sup> /d (but not in tier 3) with numeric limits for ammonia, nutrients, dangerous substances, UWWTD self monitoring                                            | Sanitary     | 12                                     | 6                                                                                                                                               | 12                                                                                                     | For 12 samples 1 out of hours sample per annum, for 6, 1 every 2 years on average |
|                                                                                                                                                                             | Non sanitary | 6                                      | 6                                                                                                                                               | 6                                                                                                      |                                                                                   |
| >20 m <sup>3</sup> /d (but not in tier 3) with numeric limits for one or more of biochemical oxygen demand or suspended solids or pH or temperature or oil and grease only. | Sanitary     | 12                                     | 4                                                                                                                                               | 12                                                                                                     | For 12 samples 1 out of hours sample per annum, for 4, 1 every 3 years on average |

## Schedule 4 – Reporting

Determinands, for which reports shall be made, in accordance with conditions of this permit, are listed below.

**Table S4.1 Reporting of monitoring data**

| <b>Determinand</b>                                                                                          | <b>Reporting period</b>        | <b>Period begins</b>     |
|-------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------|
| Operator Self Monitoring; Suspended Solids, Total available chlorine, pH, Total iron as iron and aluminium. | Quarterly, plus annual summary | 1 <sup>st</sup> of month |

**Table S4.2 Reporting forms**

| <b>Determinand</b>                                                                                          | <b>Reporting format</b>                               |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Operator Self Monitoring; Suspended Solids, Total available chlorine, pH, Total iron as iron and aluminium. | electronic format specified by the Environment Agency |

## Schedule 5 - Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

### Part A

|                                |  |
|--------------------------------|--|
| Permit Number                  |  |
| Name of operator               |  |
| Location of Facility           |  |
| Time and date of the detection |  |

|                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                    |
|----------------------------------------------------|
| <b>To be notified within 24 hours of detection</b> |
|----------------------------------------------------|

|                                                                  |  |
|------------------------------------------------------------------|--|
| Date and time of the event                                       |  |
| Reference or description of the location of the event            |  |
| Description of where any release into the environment took place |  |
| Substances(s) potentially released                               |  |
| Best estimate of the quantity or rate of release of substances   |  |
| Measures taken, or intended to be taken, to stop any emission    |  |
| Description of the failure or accident.                          |  |

|                                                                |
|----------------------------------------------------------------|
| <b>(b) Notification requirements for the breach of a limit</b> |
|----------------------------------------------------------------|

|                                                                                     |
|-------------------------------------------------------------------------------------|
| <b>To be notified within 24 hours of detection unless otherwise specified below</b> |
|-------------------------------------------------------------------------------------|

|                                                               |  |
|---------------------------------------------------------------|--|
| Emission point reference/ source                              |  |
| Parameter(s)                                                  |  |
| Limit                                                         |  |
| Measured value and uncertainty                                |  |
| Date and time of monitoring                                   |  |
| Measures taken, or intended to be taken, to stop the emission |  |

| Time periods for notification following detection of a breach of a limit |                     |
|--------------------------------------------------------------------------|---------------------|
| Parameter                                                                | Notification period |
|                                                                          |                     |
|                                                                          |                     |
|                                                                          |                     |

| (c) Notification requirements for the detection of any significant adverse environmental effect |  |
|-------------------------------------------------------------------------------------------------|--|
| To be notified within 24 hours of detection                                                     |  |
| Description of where the effect on the environment was detected                                 |  |
| Substances(s) detected                                                                          |  |
| Concentrations of substances detected                                                           |  |
| Date of monitoring/sampling                                                                     |  |

## Part B - to be submitted as soon as practicable

|                                                                                                                                                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Any more accurate information on the matters for notification under Part A.                                                                            |  |
| Measures taken, or intended to be taken, to prevent a recurrence of the incident                                                                       |  |
| Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission |  |
| The dates of any unauthorised emissions from the facility in the preceding 24 months.                                                                  |  |

|                  |  |
|------------------|--|
| <b>Name*</b>     |  |
| <b>Post</b>      |  |
| <b>Signature</b> |  |
| <b>Date</b>      |  |

\* authorised to sign on behalf of the operator

## Schedule 6 - Interpretation

"accident" means an accident that may result in pollution.

"annually" means once every year.

"application" means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

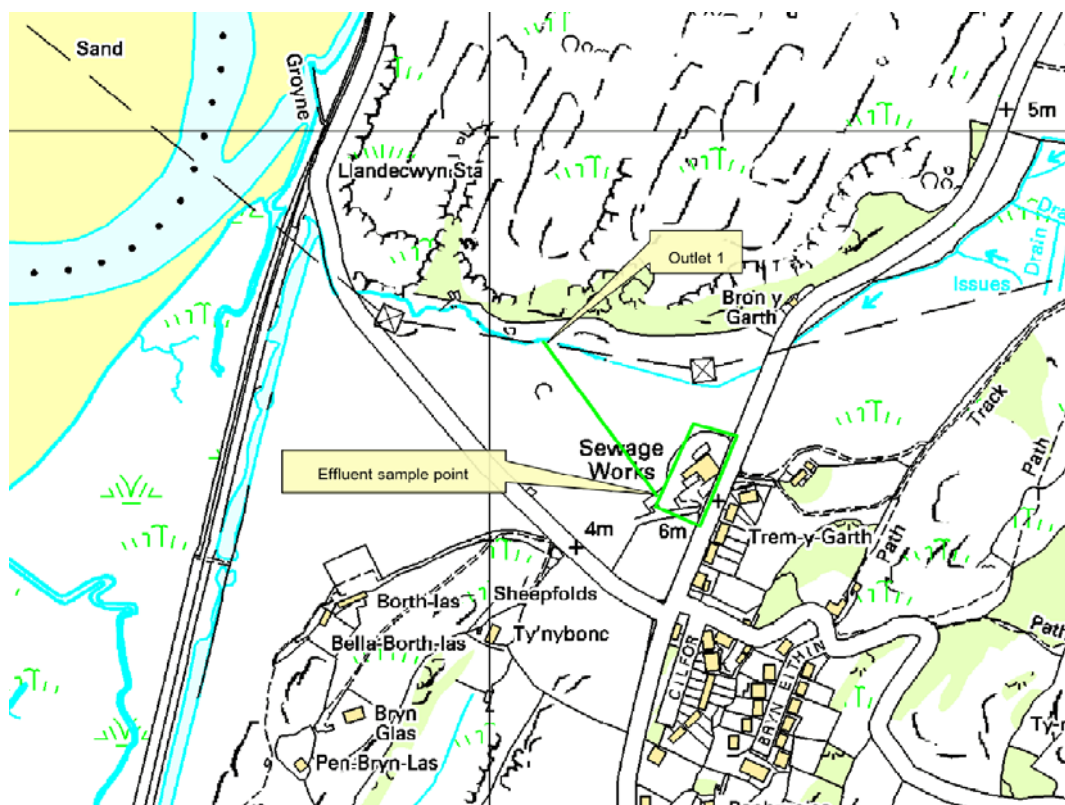
"EP Regulations" means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"emissions of substances not controlled by emission limits" means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission limit.

"quarter" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"year" means calendar year ending 31 December.

## Schedule 7 - Site plan



© Crown copyright. All rights reserved. Environment Agency, 100026380, 2011.

END OF PERMIT