

## Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

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Gower Chemicals Limited

Acid Dilution Terminal  
Crymlyn Burrows  
Swansea  
SA1 8PT

Permit number  
EPR/GP3193LE

# Acid Dilution Terminal

## Permit Number EPR/GP3193LE

### Introductory note

#### ***This introductory note does not form a part of the permit***

The main features of the permit are as follows.

Gower Chemicals Limited have applied for a permit to operate a bespoke physical recovery operation referred to as the "Nickel Plating and HCFC Waste Recovery Operation." This waste recovery operation will take place within its existing chemicals storage and blending facility.

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

| Status Log of the permit        |  |          |
|---------------------------------|--|----------|
| Detail                          | Date                                     | Comments |
| Application EPR/GP3193LE/A001   | Duly made<br>07/07/2010                  |          |
| Additional Information Received | 29/10/2010,<br>24/12/2010,<br>20/01/2011 |          |
| Permit determined               | 21/01/2011                               |          |

## Permit

Permit number

**EPR/GP3193LE**

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010

**Gower Chemicals Limited** ("the operator"),

whose registered office is

**Acid Dilution Terminal**

**Crymlyn Burrows**

**Swansea**

**SA1 8PT**

company registration number **01346796**

to operate a waste operation at

**Acid Dilution Terminal**

**Crymlyn Burrows**

**Swansea**

**SA1 8PT**

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

| Name               | Date                   |
|--------------------|------------------------|
| <b>Helen Smith</b> | <b>21 January 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, closure 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.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

## 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 on the site plan at schedule 7 to this permit.

### 2.3 Operating techniques

- 2.3.1 (a) For the following activities referenced in schedule 1, table S1.1 (A1). The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.

- (b) If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan specified in schedule 1, table S1.2 or otherwise required under this permit, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

2.3.2 Waste shall only be accepted if:

- (a) it is of a type and quantity listed in schedule 2 table(s) S2.1 and
- (b) it conforms to the description in the documentation supplied by the producer and holder.

## **3 Emissions and monitoring**

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

- 3.1.1 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.
- 3.1.2 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.
- 3.1.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

### **3.2 Odour**

- 3.2.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.2.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan;
- (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

### **3.3 Noise and vibration**

3.3.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.3.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

## **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, or in the case of the following records until permit surrender:
  - (i) off-site environmental effects; and
  - (ii) matters which affect the condition of the land and groundwater.

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 one month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

## **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 In any other case:
  - (a) the death of any of the named operators (where the operator consists of more than one named individual);
  - (b) any change in the operator's name(s) or address(es); and
  - (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 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.



# Generic installation and waste facility schedules

## Schedule 1 - Operations

| Table S1.1 activities |  |   |
|-----------------------|--|---|
|                       | Description of activities for waste operations   | Limits of activities  |
| A1                    | <p><b>R3:</b> Recycling/reclamation of organic substances which are not used as solvents</p> <p><b>R4:</b> Recycling/reclamation of metals and metal compounds</p> <p><b>D9:</b> Physico-chemical treatment not specified elsewhere in Annex IIA which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12</p> <p><b>D15:</b> Storage pending any of the operations numbered D01 to D14 (excluding temporary storage pending collection on the site where it is produced).</p> | <p>Treatment operations shall be limited to:</p> <p>Recovery of HCFC's by physical treatment (pressure displacement, chilling, drying, bulking) and repackaging. Maximum of 100 tonnes per annum.</p> <p>Electrochemical treatment of waste code 11 01 06* for Nickel recovery. Maximum of 560 tonnes per annum.</p> <p>Disposal of no more than 50 tonnes of waste per day.</p> <p>Waste types as specified in Table 2.2</p> |

**Table S1.2 Operating techniques**

| <b>Description</b>                             | <b>Parts</b>  | <b>Date Received</b> |
|--|---|----------------------|
| Application                                    | <p>Part B of the application form, Section 5 Operating Techniques – Revised EPR Support Document Ref SOL0810GC-1.</p> <p>Part B of the application form, Section 5a, Table 2 – Technical Standards.</p> <p>Part B of the application form, Section 5a Types and amounts of waste and Table 5b – Annual throughput of waste.</p> | 07/07/2010           |
| Response to Schedule 5 Notice dated 11/10/2010 | <p>Response to question 4 detailing information on site drainage and impermeable surface.</p> <p>Response to question 5 detailing information on Fugitive Emissions and Point Source Emissions.</p>   | 29/10/2010           |
| Response to E-mail dated 24/12/2010            | <p>Response No: 1 - confirming requirement for inclusion of D9 code.</p> <p>Response No: 2 – Confirmation that there will be no Fugitive Emissions or Point Source Emissions.</p>   | 24/12/2010           |
| Response to E-mail dated 20/01/2011            | <p>Confirmation of requirement for inclusion of D15 code.</p> <p>Confirmation of “sealed impermeable pavement” on site</p>  | 20/01/2011           |

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

| Table S2.1 Permitted waste types and quantities |  |
|---|--|
| Waste code                                      | Description  |
| <b>11</b>                                       | <b>WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS: NON-FERROUS HYDROMETALLURGY</b>   |
| <b>11 01</b>                                    | <b>Wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)</b> |
| 11 01 06*                                       | Acids not otherwise specified  |
| <b>14</b>                                       | <b>WASTES ORGANIC SOLVENTS, REFRIDGERANTS AND PROPELLANTS ( 07 AND 08)</b>   |
| <b>14 06</b>                                    | <b>Waste organic solvents, reffridgerants and foam/aerosol propellants</b>   |
| 14 06 01*                                       | Chlorofluorocarbons, HCFC, HFC   |

## **Schedule 3 – Emissions and monitoring**

*There are no emission limits or associated monitoring requirements.*

## **Schedule 4 - Reporting**

*There is no reporting under this schedule.*

# 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 |  |

### **(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**

#### **To be notified within 24 hours of detection**

|  |  |
|--|--|
| 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) Notification requirements for the breach of a limit**

#### **To be notified within 24 hours of detection unless otherwise specified below**

|   |  |
|---|--|
| 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 **Gower Chemicals Limited**

## Schedule 6 - Interpretation

*“accident”* means an accident that may result in pollution.

*“Annex IIA”* means Annex IIA to Directive 2006/12/EC of the European Parliament and of the Council of 5 April 2006 on Waste.

*“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.

*“authorised officer”* means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

*“building”* means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

*“emissions to land”* includes emissions to groundwater.

*“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 or background concentration limit.

*“groundwater”* means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

*“groundwater protection zones 1 and 2”* have the meaning given in the document titled "Groundwater Protection: Policy and Practice" published by the Environment Agency in 2006.

*“hazardous waste”* has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 No.894, the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138), the List of Wastes (England) Regulations 2005 No.895 and the List of Wastes (Wales) Regulations 2005 No. 1820 (W.148).

*“quarter”* means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

*“R”* means a recovery operation provided for in Annex IIB to Directive 2006/12/EC of the European Parliament and of the Council of 5 April 2006 on Waste.

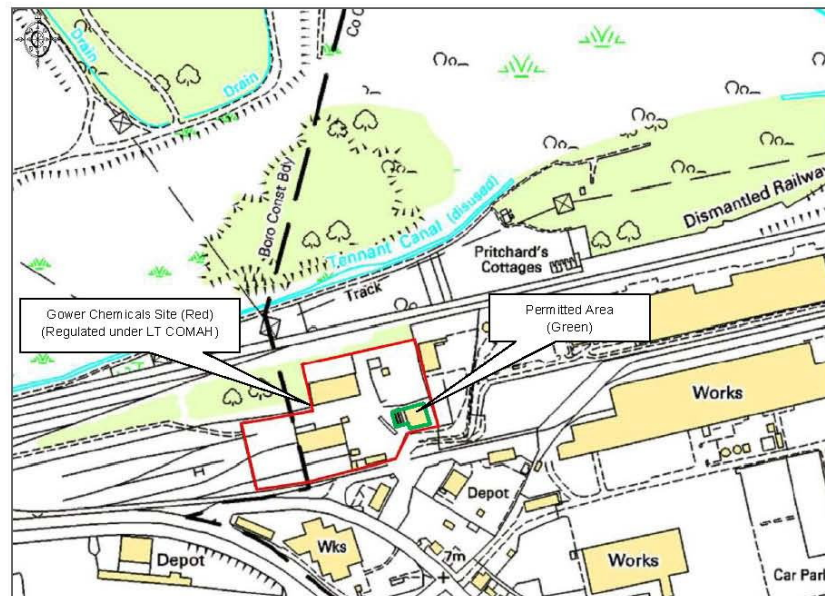
*“Waste code”* means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

*“year”* means calendar year ending 31 December.



## Schedule 7 - Site plan

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END OF PERMIT