

# Variation notice with introductory note

Environmental Permitting (England & Wales) Regulations 2007

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Nantycaws Landfill Site

CWM Environmental Ltd  
Llanddorag Road  
Nantycaws  
Carmarthen  
Carmarthenshire  
SA32 8BG

Variation notice number  
EPR/CP3735PB/V004

Permit number  
EPR/CP3735PB

# Nantycaws Landfill Site

## Permit Number EPR/CP3735PB

### Introductory note

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

The following notice, which is issued pursuant to regulation 20 and Part 1 of Schedule 5 of the Environmental Permitting (England and Wales) Regulations S.I.2007 No. 3538 (the Regulations), gives notice of the variation of an environmental permit to operate a regulated facility.

The effect of the variation is to increase the height of the pre-settlement contours across the site, to amend leachate quality trigger levels and to increase the installation boundary.

Schedule 1 of this notice lists any deleted conditions, Schedule 2 lists any amended conditions and Schedule 3 lists any conditions that have been added.

| <b>Status Log of the permit</b>                                     |                     |                      |
|---|---------------------|----------------------|
| <b>Detail</b>   | <b>Date</b>         | <b>Response Date</b> |
| Application CP3735PB<br>(EPR Reference: EPR/CP3735PB/A001)          | Received 03/05/2004 |                      |
| Permit CP3735PB determined<br>(EPR Reference: EPR/CP3735PB)         | 02/08/2005          |                      |
| Variation application DP3934LP                                      | Received 24/03/2006 |                      |
| Variation application DP3636LJ                                      | Received 02/06/2006 |                      |
| Variation DP3934LP determined<br>(EPR Reference: EPR/CP3735PB/V002) | 01/12/2006          |                      |
| Variation DP3636LJ determined<br>(EPR Reference: EPR/CP3735PB/V003) | 28/02/2008          |                      |
| Variation application EPR/CP3735PB/V004                             | Received 24/07/2008 | Duly made 24/07/2008 |
| Variation EPR/CP3735PB/V004 determined                              | 23/09/2009          |                      |

| <b>Other Part A installation permits relating to this installation</b> |   |                      |
|--|---|----------------------|
| <b>Operator</b>  | <b>Permit Number</b>                      | <b>Date of Issue</b> |
| Novera Energy Generation No.2 Ltd                                      | LP3038SU<br>(EPR reference: EPR/LP3038SU) | 28/04/2005           |

End of Introductory Note

**Notice of variation**

Environmental Permitting  
(England and Wales) Regulations 2007

Permit number

**EPR/CP3735PB**

Variation number

**EPR/CP3735PB/V004**

The Environment Agency in exercise of its powers under Regulation 20 of the Environmental Permitting (England and Wales) Regulations 2007 (SI 2000 No 3538) varies the permit as set out below.

**CWM Environmental Ltd** (“the operator”),

whose registered office is

**Cillefwr Industrial Estate**

**Alltynap Road**

**Johnstown**

**Carmarthen**

**Carmarthenshire**

**SA31 3RA**

company registration number **02640102**

holds a permit to operate part of a regulated facility at

**Nantycaws Landfill Site**

**Llanddarog Road**

**Nantycaws**

**Carmarthen**

**Carmarthenshire**

**SA32 8BG**

and that permit is varied to the extent set out in Schedules 1 to 3 of this notice.

The notice shall take effect from 23 September 2009.

| Name  | Date              |
|---|-------------------|
|  | 23 September 2009 |

**Anne Nightingale**

Authorised to sign on behalf of the Agency

## Schedule 1 – conditions to be deleted

1. The following conditions are deleted:

4.3.9 (b)

## Schedule 2 – conditions to be amended

2. The following conditions are amended:

Conditions 2.2.1 and 2.8.6 are amended by deleting the previous conditions and replacing them with the following new conditions:

2.2.1 The activities shall not extend beyond the site, being the land shown edged in orange on the site plan at schedule 2 to this permit, which is within the area edged in green on the site plan that represents the extent of the installation covered by this permit and that of the other operator of the installation.

2.8.6 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing number 001 dated March 2009 (Appendix G of the response dated 20 March 2009 to the schedule 5 notice).

Schedule 1 table S1.2 as referenced by condition 2.3.1 is amended by adding the following rows:

| <b>Table S1.2 Operating techniques</b>  |   |                      |
|---|---|----------------------|
| <b>Description</b>  | <b>Parts</b>  | <b>Date Received</b> |
| Compliance with improvement programme requirement reference 1.4.1.22:<br>Nantycaws Landfill, Carmarthen, Odour Management Plan, reference 407.0610.00011 dated January 2008 | All   | January 2008         |
| Variation application   | Response to questions 2a and 2b in Part C of the application form excluding sections 1.3.1, 1.3.3 and 1.3.4 of the Supporting Statement reference 407-0610-00011/SS | 24/07/2008           |
| Response to schedule 5 notice dated 10/02/2009  | Response to questions 4 and 5 and Appendix F (Surface Water Management Plan)  | 20/03/2009           |
| Response to schedule 5 notice dated 09/07/2009  | Penultimate paragraph (relating to flow monitoring)   | 21/07/2009           |



Schedule 4 table S4.9 is amended by changing the text of point 2 in the “Other specifications” columns to:

| <b>Table S4.9 Leachate – other monitoring requirements</b>                       |                           |                             |  |  |
|--|---------------------------|-----------------------------|--|--|
| <b>Emission point reference or source or description of point of measurement</b> | <b>Parameter</b>          | <b>Monitoring frequency</b> | <b>Monitoring standard or method</b>   | <b>Other specifications</b>  |
| a) All leachate monitoring wells   | Leachate Level            | Monthly                     | Unless otherwise agreed in writing with the Agency, monitoring methods used shall be in accordance with Environment Agency document 'Guidance on monitoring of landfill leachate, groundwater and surface water' (LFTGN02)   | 1. The operator shall supply in writing details of List 1 substances to be analysed one month prior to undertaking annual monitoring. This shall include all parameters used in the Hydrogeological Risk Assessment. |
|  | Monitoring point base     | Annually                    |  |  |
| b) Cell 1 & 2 Sump   | Leachate Level            | Monthly                     | 2. In the event that the trigger levels detailed in Table HRA9 of the hydrogeological risk assessment (SLR Ref: 407-0610-00011/HRA) dated May 2006 and section 3.1 of Appendix SS3 (SLR Ref: 407.0610.00011 dated June 2008) to the variation application received on 24/07/2008 are exceeded, the Agency shall be notified in writing within seven days of the result being received by the operator. |  |
| c) Cell 4 Sump   | Electrical                | Monthly                     |  |  |
| d) Cell 5 Sump   | Conductivity              | Monthly                     |  |  |
| e) Leachate pond as identified on plan ESID2 dated May 2004.                     | Chloride                  | Monthly                     |  |  |
|  | Ammoniacal Nitrogen       | Monthly                     |  |  |
|  | Total Alkalinity          | Quarterly                   |  |  |
| f) Leachate holding lagoon as identified on plan HRA1 dated July 2006.           | Magnesium                 | Quarterly                   |  |  |
|  | Potassium                 | Quarterly                   |  |  |
|  | Total Sulphate            | Quarterly                   |  |  |
|  | Calcium                   | Quarterly                   |  |  |
| g) Sumps 3-1, 3-2, 3-3, 3-4 as identified on Drawing number 7 dated May 2006.    | Sodium                    | Quarterly                   |  |  |
|  | Biochemical Oxygen Demand | Quarterly                   |  |  |
|  | Chemical Oxygen Demand    | Quarterly                   |  |  |
|  | Total Organic Carbon      | Quarterly                   |  |  |
|  | Total Oxidised Nitrogen   | Quarterly                   |  |  |
|  | Manganese                 | Quarterly                   |  |  |
|  | Iron                      | Quarterly                   |  |  |
|  | Chromium                  | Quarterly                   |  |  |
|  | Copper                    | Quarterly                   |  |  |
|  | Lead                      | Quarterly                   |  |  |
|  | Zinc                      | Quarterly                   |  |  |
|  | Nickel                    | Quarterly                   |  |  |
|  | Mecoprop                  | Quarterly                   |  |  |
| Diethylphthalate   | Quarterly                 |                             |  |  |
| Dichloromethane, 4-Methylphenol  | Quarterly                 |                             |  |  |
| Monitoring point base  | Annually                  |                             |  |  |
| List 1 screen  | Annually                  |                             |  |  |

### Schedule 3 – conditions to be added

3. The following conditions are added to the permit:

The following requirements are added to table S1.3 in Schedule 1 as referenced by condition 2.5:

| <b>Table S1.3 Improvement programme requirements</b> |  |             |
|--|--|-------------|
| <b>Reference</b>                                     | <b>Requirement</b>   | <b>Date</b> |
| 1.4.1.25   | <p>The operator shall submit a leachate management plan in writing to the Agency that includes:</p> <ul style="list-style-type: none"><li>• as built drawings of all leachate monitoring points and extraction wells;</li><li>• a plan showing the locations of all leachate monitoring points and extraction wells, including details of the survey to Ordnance Datum for each point and well;</li><li>• a plan showing the spatial distribution of the extraction wells;</li><li>• details of the zone of influence of each extraction well;</li><li>• details of the leachate pumping regime together with justification; and</li><li>• details of a contingency action plan.</li></ul> | 31/01/2010  |
| 1.4.1.26   | <p>The operator shall provide a written report to the Agency that details the following information:</p> <ul style="list-style-type: none"><li>• how leachate levels are monitored in all monitoring wells at the site;</li><li>• that all monitoring and extraction wells are of sufficient depth to allow measurement of leachate depth above the base of the liner;</li><li>• the leachate level profile within each cell at the site;</li><li>• analysis of data to determine whether the leachate levels comply with the limits as detailed in table S4.1 of Schedule 4 to the permit.</li></ul>  | 31/01/2010  |

The following requirement is added to table S1.4B in Schedule 1 as referenced by condition 2.6:

**Table S1.4B Pre-operational Measures for Future Development**

| Reference | Operation                              | Pre-operational Measures   |
|-----------|--|--|
| 5         | Discharge from the attenuation lagoons | <p>The operator shall submit written proposals to the Agency for approval regarding the emission of surface water from the attenuation lagoons at the new emission point SW205 as shown on drawing reference ESID13 dated June 2008, revision 2. The proposals shall include:</p> <ul style="list-style-type: none"><li>• emission limits for specified parameters;</li><li>• discharge rate and volume of discharge based on the area of the catchment and average rainfall over a number of years together with the design parameters of the lagoons;</li><li>• an assessment of the impact of the discharge using the Agency's H1 methodology for the parameters proposed above; and</li><li>• details of the monitoring to be undertaken, including frequency, parameters and methodology.</li></ul> |