

# Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

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United Utilities Water PLC

Davyhulme Wastewater Treatment  
Works  
Rivers Lane  
Urmston  
Manchester  
M41 7JB

Variation application number  
EPR/HP3931LJ/V007

Permit number  
EPR/HP3931LJ

# Davyhulme Wastewater Treatment Permit number EPR/HP3931LJ

## Introductory note

### This introductory note does not form a part of the notice

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

Schedule 1 to the Environmental Permitting Regulations has been updated by the Environmental Permitting (England and Wales) (Amendment) Regulations 2013 to reflect the implementation of the Industrial Emissions Directive into England and Wales. This variation implements the changes made to Schedule 1 of the Regulations into Table S1.1 of the permit. Table S1.1 specifies the activities authorised by the permit.

The schedules to this variation specify the changes made to the original permit.

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

| Status log of the permit                       |                           |                     |
|--|---------------------------|---------------------|
| Description                                    | Date                      | Comments            |
| Application SP3931LL<br>(EPR/SP3931LJ/A001)    | Duly made<br>30/06/06     |                     |
| Request for further information                | 23/08/06 –<br>04/09/07    | 22/09/06 – 15/10/07 |
| Additional information received                | 09/02/07 –<br>24/10/07    |                     |
| Permit HP3931LJ determined<br>(EPR/HP3931LJ)   | 24/10/07                  |                     |
| Application for Variation LP3839GF             | Duly made<br>19/11/08     |                     |
| Additional information received                | Notice served<br>03/12/08 | 29/12/08            |
| Variation EPR/HP3931LJ/V002                    | Issued<br>26/02/09        |                     |
| Application for variation<br>EPR/HP3931LJ/V003 | Duly made<br>11/03/09     |                     |
| Request for further information via<br>e-mail  | 12/05/09                  | 21/05/09, 25/08/09  |
| Variation notice EPR/HP3931LJ/V003             | Issued<br>15/10/09        |                     |
| Variation application<br>EPR/HP3931LJ/V004     | 31/12/09                  |                     |
| Additional information                         | 29/04/10                  | 28/05/10            |
| Variation notice EPR/HP3931LJ/V004             | Issued<br>02/07/10        |                     |

**Status log of the permit**

| <b>Description</b>                               | <b>Date</b>  | <b>Comments</b>  |
|--|--|--|
| Variation notice EPR/HP3931LJ/V005               | Duly Made<br>02/11/10  |  |
| Further information Schedule 5                   | 17/02/11   | 25/03/11   |
| Additional information received                  | 01/12/11<br>Document No<br>16666-51-A-<br>00000-22<br>166661-88-A-<br>00002-20<br>166661-51-A-<br>00000-29 |  |
| Variation notice EPR/HP3931LJ/V005               | Issued 01/03/12  |  |
| Variation Application<br>EPR/HP3931LJ/V006       | Duly made<br>12/07/12  |  |
| Variation notice EPR/HP3931LJ/V006               | Issued 0<br>8/08/12  |  |
| Agency variation determined<br>EPR/HP3931LJ/V007 | 19/06/13   | Agency variation to implement the<br>changes introduced by IED |

**Other Part A installation permits relating to this installation**

| <b>Operator</b>                 | <b>Permit number</b> | <b>Date of issue</b> |
|---------------------------------|----------------------|----------------------|
| United Utilities Industries Ltd | EP3031LB             | 24/10/07             |

End of introductory note

## Notice of variation

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

**Permit number**  
**EPR/HP3931LJ**

**issued to:**  
**United Utilities Water PLC** (“the operator”)

whose registered office is

**Haweswater House**  
**Lingley Mere Business Park**  
**Lingley Green Avenue**  
**Great Sankey**  
**Warrington**  
**WA5 3LP**

company registration number **2366678**

to operate a regulated facility at

**Davyhulme Wastewater Treatment Works**  
**Rivers Lane**  
**Urmston**  
**Manchester**  
**M41 7JB**

to the extent set out in the schedules.

The notice shall take effect from 19/06/2013

| Name                   | Date              |
|------------------------|-------------------|
| <b>Damien Matthias</b> | <b>19/06/2013</b> |

Authorised on behalf of the Environment Agency

## Schedule 1 – conditions to be deleted

None

## Schedule 2 – conditions to be amended

The following conditions are amended as detailed, following an Environment Agency initiated variation

- Table S1.1 is amended to reflect the changes to Schedule 1 of the Environmental Permitting Regulations introduced by the Industrial Emissions Directive. The table now reads:

| <b>Table S1.1 activities</b> |  |  |   |
|------------------------------|--|--|---|
| <b>Activity reference</b>    | <b>Activity listed in Schedule 1 of the EP Regulations</b>   | <b>Description of specified activity and WFD Annex I and II operations</b>           | <b>Limits of specified activity and waste types</b>   |
| A1                           | Section 5.4 Part A(1) a) (ii) Disposal of non hazardous waste in a facility with a capacity of more than 50 tonnes per day involving physico-chemical treatment; | D9: Physical and chemical treatment of sludge for the purpose of disposal            | From receipt of the waste to the transfer to storage including treatment of the waste which is limited to the following plant:-<br>5 Sludge Strain Presses;<br>4 Gravity Belt Thickeners;<br>3 Sludge Screening;<br>6 Sludge Dewatering (centrifuges);<br>DAF Plant<br>Thermal Hydrolysis (4 no. pulper vessels, 20 no. reactor vessels, 4 no. flash tanks) |
| A2                           | Section 5.4 A(1) a) (i) Disposal of non hazardous waste in a facility with a capacity of more than 50 tonnes per day involving biological treatment.             | D8: Biological treatment (anaerobic digestion) of sludge for the purpose of disposal | From receipt of the waste to the transfer to storage, including the digestion of the waste which is limited to the following plant:-<br>8 Primary digesters;<br>12 Secondary digesters<br>Waste types and quantities as specified in Table S3.3   |

**Table S1.1 activities**

| <b>Activity reference</b>           | <b>Activity listed in Schedule 1 of the EP Regulations</b> | <b>Description of specified activity and WFD Annex I and II operations</b>   | <b>Limits of specified activity and waste types</b>   |
|-------------------------------------|--|--|---|
| <b>Directly Associated Activity</b> |  |  |   |
|                                     | Gas Combustion   | The combustion of fuel (biogas) for the purpose of generating electricity and heat for use within the installation | From the receipt and storage of Biogas to the delivery of heat to the digesters and electricity to the Wastewater Treatment Works and National Grid. The combustion units are limited to 5 CHP engines and 3 dual fuel boilers with a combined thermal input (gross) of approximately 45MW. The combined number of engines/boilers running at any one time are limited to the assessment scenario of 4 gas engines and one boiler (or equivalent thereof) and therefore cannot produce more than 4.815grams/second NO <sub>2</sub> (ref Table 2.4 Air Modelling Report November 2011) |
|                                     | Siloxane unit  | Siloxane removal system  | Filtration of siloxane compounds from biogas and associated filter regeneration   |
|                                     | Storage of Waste   | Cake import and export handling facility   | Storage of cake before and after treatment prior to dispatch off site.  |
|                                     | Degassing Tank   | Degassing  | Remove excess CO <sub>2</sub> and minimise residual anaerobic activity in downstream pipes.   |
|                                     | Combustion of standby gas oil                              | Burning of gas oil (standby fuel) for use in the 3 dual fuel boilers   | From receipt of gas oil, to combustion of fuel and delivery of heat to the digesters. Gas oil is only to be used where there is either: <ul style="list-style-type: none"> <li>• Insufficient biogas available for use</li> <li>• Poor quality biogas being produced; or</li> <li>• Operational malfunction which prevents biogas usage</li> </ul>  |
|                                     | Gas Flares (2 in number)                                   | Flaring of bio-gas   | From receipt of gas at flare, to combustion of gas and discharge of combustion products. Biogas only to be flared where it is unable to be used for the production of heat and energy.  |
|                                     | Odour abatement plants (3 in number)                       | Abatement of odour emissions to air  | From receipt of odours from Gravity Belt Thickeners and sludge storage and processing equipment, to emissions to air.   |

**Schedule 3 – conditions to be added**

None