

Permit Number: VP3132LJ Operator: Maxibrite Limited  
 Installation: Mwyndy Solid Fuel Briquette Manufacturer Form Number: Water1 / 15/06/07

**Reporting of emissions to water (other than to sewer) for the period from 01/10/2014 to 31/12/2014**

| Emission Point                | Substance / Parameter | Emission Limit Value | Reference Period | Test Method [2]                                                                                                                       | Result [1]  | Sample Date and Times [3]                                   | Uncertainty [4] | Weather Conditions          |
|-------------------------------|-----------------------|----------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------|-----------------|-----------------------------|
| W1 on site plan in schedule 2 | Temperature           | 28°C                 | Spot sample      | TK digital thermometer, with K-type connection.                                                                                       | 19.0        | 06/10 @ 1030                                                |                 | Light Showers               |
|                               |                       |                      |                  |                                                                                                                                       | 18.7        | 17/10 @ 1830                                                |                 | Light Rain                  |
|                               |                       |                      |                  |                                                                                                                                       | 17.7        | 22/10 @ 2045                                                |                 | Dry                         |
|                               |                       |                      |                  |                                                                                                                                       | 19.1        | 02/11 @ 0600                                                |                 | Light Showers               |
|                               |                       |                      |                  |                                                                                                                                       | 17.1        | 07/11 @ 2200                                                |                 | Heavy Showers               |
|                               |                       |                      |                  |                                                                                                                                       | 16.2        | 12/11 @ 1930                                                |                 | Dry                         |
|                               |                       |                      |                  |                                                                                                                                       | 18.0        | 17/11 @ 1630                                                |                 | Dry                         |
|                               |                       |                      |                  |                                                                                                                                       | 17.6        | 26/11 @ 2200                                                |                 | Dry                         |
|                               |                       |                      |                  |                                                                                                                                       | 15.4        | 03/12 @ 1830                                                |                 | Dry                         |
|                               |                       |                      |                  |                                                                                                                                       | 14.7        | 08/12 @ 1030                                                |                 | Dry                         |
|                               |                       |                      |                  |                                                                                                                                       | 14.3        | 19/12 @ 1200                                                |                 | Dry                         |
|                               |                       |                      |                  |                                                                                                                                       | 14.2        | 23/12 @ 0555                                                |                 | Light Rain                  |
|                               |                       |                      |                  |                                                                                                                                       | 13.3        | 30/12 @ 0845                                                |                 | Dry                         |
| W1 on site plan in schedule 2 | pH                    | 6-9                  | Spot sample      | WTW 315i digital pH meter with Sentix 41 gel filled electrode, method based on SCA blue book 14 (method approved and accepted by EA). | 7.94 – 8.35 | 7.94 06/10 @ 1030<br>8.35 11/10 @ 1040                      |                 | Light Showers<br>Dry        |
|                               |                       |                      |                  |                                                                                                                                       | 7.78 – 8.68 | 7.78 15/10 @ 1020<br>8.68 17/10 @ 0640                      |                 | Dry<br>Dry                  |
|                               |                       |                      |                  |                                                                                                                                       | 7.88 – 8.12 | 7.88 22/10 @ 2045<br>8.12 20/10 @ 1900                      |                 | Dry<br>Dry                  |
|                               |                       |                      |                  |                                                                                                                                       | 7.75 – 8.14 | 7.75 31/10 @ 0830<br>8.14 29/10 @ 0600                      |                 | Dry<br>Dry                  |
|                               |                       |                      |                  |                                                                                                                                       | 7.82 – 8.32 | 7.82 03/11 @ 1915<br>8.32 07/11 @ 2000                      |                 | Heavy Rain<br>Heavy Rain    |
|                               |                       |                      |                  |                                                                                                                                       | 8.02 – 8.24 | 8.02 11/11 @ 0150<br>8.24 13/11 @ 2000                      |                 | Light Rain<br>Dry           |
|                               |                       |                      |                  |                                                                                                                                       | 7.51 – 8.16 | 7.51 17/11 @ 1630<br>8.16 20/11 @ 1620<br>8.16 21/11 @ 1850 |                 | Dry<br>Dry<br>Light Showers |

| Emission Point                | Substance / Parameter  | Emission Limit Value | Reference Period | Test Method [2]                                          | Result [1]   | Sample Date and Times [3] | Uncertainty [4] | Weather Conditions |
|-------------------------------|------------------------|----------------------|------------------|----------------------------------------------------------|--------------|---------------------------|-----------------|--------------------|
| W1 on site plan in schedule 2 | Ammonia (total as N)   | 7mg/l                | Spot sample      | ISO 7150-2 UKAS Accredited Laboratory/MCERTS (ALcontrol) | 8.04 – 8.28  | 8.04 26/11 @ 1645         |                 | Dry                |
|                               |                        |                      |                  |                                                          | 8.12         | 8.28 25/11 @ 1755         |                 | Dry                |
|                               |                        |                      |                  |                                                          | 8.08 – 8.34  | 8.12 03/12 @ 1830         |                 | Dry                |
|                               |                        |                      |                  |                                                          | 8.08 – 8.25  | 8.08 10/12 @ 1000         |                 | Dry                |
|                               |                        |                      |                  |                                                          | 8.10 – 8.26  | 8.34 08/12 @ 1030         |                 | Dry                |
|                               |                        |                      |                  |                                                          | 8.02 – 8.30  | 8.08 15/12 @ 2200         |                 | Dry                |
|                               |                        |                      |                  |                                                          | 1.05         | 8.25 18/12 @ 1045         |                 | Light Showers      |
|                               |                        |                      |                  |                                                          | 3.75         | 8.10 22/12 @ 0900         |                 | Dry                |
|                               |                        |                      |                  |                                                          | 3.36         | 8.26 23/12 @ 0555         |                 | Light Rain         |
|                               |                        |                      |                  |                                                          | 19.5         | 8.02 30/12 @ 0845         |                 | Dry                |
| W1 on site plan in schedule 2 | Total suspended solids | 200 mg/l             | Spot sample      | BS EN872 UKAS Accredited Laboratory/MCERTS (ALcontrol)   | 31/10 @ 0830 | 31/10 @ 0830              |                 | Dry                |
|                               |                        |                      |                  |                                                          | 28/11 @ 0930 | 28/11 @ 0930              |                 | Dry                |
|                               |                        |                      |                  |                                                          | 19/12 @ 1200 | 19/12 @ 1200              |                 | Dry                |
|                               |                        |                      |                  |                                                          | 7            | 19/12 @ 1200              |                 | Dry                |

- The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.
- For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed .....John Keenan.....  
 (Authorised to sign as representative of Operator)

Date .....22/01/2015.....

Permit Number: VP3132LJ Operator: Maxibrite Limited  
 Installation: Mwyndy Solid Fuel Briquette Manufacturer Form Number: Air1 / 20/10/10

Reporting of emissions to air for the period from 01/10/14 to 31/12/14

| Emission Point                           | Substance / Parameter | Emission Limit Value | Reference Period | Result <sup>[1]</sup> | Test Method <sup>[2]</sup>                          | Sample Date and Times <sup>[3]</sup> | Uncertainty <sup>[4]</sup>                 |
|------------------------------------------|-----------------------|----------------------|------------------|-----------------------|-----------------------------------------------------|--------------------------------------|--------------------------------------------|
| A1 [Point A1 on site plan in Schedule 2] | Particulate matter    | 100mg/m <sup>3</sup> | Spot sample      | 79.50                 | BS EN 13284-1:2002                                  | 27/11/14 from 09:25 to 10:33         | ± 2.39 mg/m <sup>3</sup> at 95% confidence |
| A1 [Point A1 on site plan in Schedule 2] | Sulphur dioxide       | 75 mg/m <sup>3</sup> | Spot sample      | 21.68                 | Non-dispersive infra-red in accordance with TGN M21 | 27/11/14 from 11:10 to 12:09         | ± 0.87 mg/m <sup>3</sup>                   |
| A1 [Point A1 on site plan in Schedule 2] | Oxides of nitrogen    | 75 mg/m <sup>3</sup> | Spot sample      | 33.42                 | BS EN 14792:2005                                    | 27/11/14 from 11:10 to 12:09         | ± 0.67 mg/m <sup>3</sup>                   |
| A9 [Point A9 on site plan in Schedule 2] | Particulate matter    | 45 mg/m <sup>3</sup> | Spot sample      | 4.35                  | BS EN 13284-1:2002                                  | 26/11/14 from 12:48 to 13:54         | ± 0.30 mg/m <sup>3</sup>                   |

- The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.
- Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.
- For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

*Simon Gilbody*

Signed ... Date ..... 28/01/15 .....

(Authorised to sign as representative of Operator)

Permit Number: VP3132LJ Operator: Maxibrite Limited  
Installation: Mwyndy Solid Fuel Briquette Manufacturer Form Number: Performance1 / 15/06/07

**Reporting of other performance indicators for the period 01/01/2014 to 31/12/2014**

| Parameter                       | Units                   |
|---------------------------------|-------------------------|
| Total raw material used = 1.125 | Tonnes/tonne of product |

Operator's comments : Slight increase on result for previous year. Result could be due to slightly higher moisture content raw materials, leading to an increase in tonnes of raw material to produce the end product.

Signed ..... Date.....28/01/15.....  
*Simon Gilbody*

(Authorised to sign as representative of Operator)

Permit Number: VP3132LJ Operator: Maxibrite Limited  
 Installation: Mwyndy Solid Fuel Briquette Manufacturer Form Number: Energy1 / 15/06/2007

**Reporting of Energy Usage for the year 2014**

| Energy Source | Energy Usage Quantity | Primary Energy (MWh) | Specific Usage (MWh/unit output) |
|---------------|-----------------------|----------------------|----------------------------------|
| Electricity * | 3663.41MWh            | 8792.18              | 0.147 MWh/tonne                  |
| Natural Gas   | 29367.88MWh           | 29367.88             | 0.490 MWh/tonne                  |
| Gas Oil       | tonnes                | -                    |                                  |
| <b>TOTAL</b>  | -                     | <b>43770.95</b>      | <b>0.637 MWh/tonne</b>           |

\* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments : Electricity usage is reported in the first column and then multiplied by 2.4 in the Primary Energy Column. No gas oil used for production other than mobile plant, which has not historically been included in the above figures. The total specific energy usage figure shows an improvement on the 2012 figure, but a slight increase on the 2013 figure. This could be due to processing higher volumes of wetter raw material stocks.

*Aeman Gilbody*

Signed ..... Date.....28/01/15.....  
 (Authorised to sign as representative of Operator)

Permit Number: VP3132LJ

Operator: Maxibrite Limited

Installation: Mwyndy Solid Fuel Briquette Manufacturer

Form Number: WaterUsage1 / 15/06/07

**Reporting of Water Usage for the year 2014**

| Water Source             | Usage (m <sup>3</sup> /year) | Specific Usage (m <sup>3</sup> /unit output) |
|--------------------------|------------------------------|----------------------------------------------|
| Mains water              | 8292                         | 0.138 m <sup>3</sup> /tonne product          |
| Abstraction              | 57468                        | 0.959 m <sup>3</sup> /tonne product          |
| <b>TOTAL WATER USAGE</b> | <b>65760</b>                 | <b>1.097 m<sup>3</sup>/tonne product</b>     |

Operator's comments : increase in specific water usage compared to previous calendar year – could be due to odour control steam in oven and increased use of dust suppression sprays on site.

*Simon Gilbody*

Signed .....

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Date.....28/01/15.....

(authorised to sign as representative of Operator)