

**Schedule 3 - Form Number: A2**

**Operator: KEPAK Group Limited**

**Permit Number: AP3433ES**

**Installation: Dowlais Slaughterhouse**

**Release to Air**

**NIL RETURNED**

**Release Point: A1**

**Release for Calendar Year ending: ..... December 2022**

| Reporting Form A2                                                      |             |                |                  |
|------------------------------------------------------------------------|-------------|----------------|------------------|
| Parameter                                                              | Limit Value | Measured Value | Date of Sampling |
| Sulphur dioxide (as 20 minute average) mg/m <sup>3</sup>               | 300         |                |                  |
| Volatile Organic Compounds (as carbon) mg/m <sup>3</sup>               | 20          |                |                  |
| Gaseous Chlorides (as HCl) mg/m <sup>3</sup>                           | 100         |                |                  |
| Oxides of Nitrogen (as NO <sub>x</sub> ) mg/m <sup>3</sup>             | -           |                |                  |
| Particulate Matter mg/m <sup>3</sup>                                   | 100         |                |                  |
| Dioxins and Furans** (expressed as ITEQ equivalent) ng/m <sup>3</sup>  | 1           |                |                  |
| Polycyclic Aromatic Hydrocarbons (as benzo-a-pyrene) mg/m <sup>3</sup> | -           |                |                  |

Signed on behalf of the Operator ...



Date ... 10/01/2023

**Schedule 3 - Form Number: A4**

**Operator: KEPAK Group Limited**

**Permit number: AP3433ES**

**Installation: Dowlais Slaughterhouse**

Release to Air

Release Points: A3, A4

Release for Calendar Year ending: ..... December 2022

| Reporting Form<br>A4                    |             |                           |                           |                     |
|-----------------------------------------|-------------|---------------------------|---------------------------|---------------------|
| Parameter                               | Limit value | Release Point<br>A3       | Release Point<br>A4       | Date of<br>sampling |
| Oxides of Nitrogen<br>mg/m <sup>3</sup> | -           | 125.27 Low<br>119.11 High | 100.63 Low<br>135.54 High | 22/10/2022          |
| Carbon Monoxide<br>mg/m <sup>3</sup>    | -           | 2.5 Low<br>2.5 High       | 17.5 Low<br>3.8 High      | 22/10/2022          |

Signed on behalf of the Operator ...

Date ... 10/01/2023



**Note:**

Release Point A3 = No 1 Boiler

Release Point A4 = No 2 Boiler

Mg/m<sup>3</sup> for NO<sub>x</sub> and CO calculated using:

$$\text{NO}_x \text{ (mg/m}^3\text{)} = \frac{\text{ppm (NO}_x\text{)} * 46}{22.4}$$

$$\text{CO (mg/m}^3\text{)} = \text{ppm} \times 28.01/22.41$$

**Schedule 3 - Form Number: A5**

**Operator: KEPAK Group Limited**

**Permit Number: AP3433ES**

**NIL RETURNED**

**Installation: Dowlais Slaughterhouse**

**Release to Air**

**Release Points: A1, Incinerator Bottom Ash**

**Release for Calendar Year ending: ..... December 2022**

| Reporting Form A5              |             |       |                        |                  |
|--------------------------------|-------------|-------|------------------------|------------------|
| Parameter                      | Limit Value | Value | Release Point          | Date of sampling |
| Total organic carbon content % | -           |       | A1                     |                  |
| Protein Content mg/100g        | -           |       |                        |                  |
| Total organic carbon content % | -           |       | Incinerator bottom ash |                  |
| Protein Content mg/100g        | -           |       |                        |                  |
| Total organic carbon content % | -           |       | Incinerator bottom ash |                  |
| Protein Content mg/100g        | -           |       |                        |                  |

Signed on behalf of the Operator ....



Date ...10/01/2023

**Schedule 3 - Form Number: S2**

**Operator: KEPAK Group Limited**

**Permit Number: AP3433ES**

Installation: Dowlais Slaughterhouse

Release to Sewer and Water

Release Point: S1

Release for Calendar Year ending: ..... December 2022

| Reporting Form S2 |                  |                               |
|-------------------|------------------|-------------------------------|
| Release point     | Date of Sampling | Organophosphorus content mg/l |
| S1                | 27/10/2022       | See attached results          |

Signed on behalf of the Operator ...



Date ...24/01/2022

NOTES:

**Schedule 3 - Form Number: R1**

**Operator: KEPAK Group Limited**

**Permit Number: AP3433ES**

Installation: Dowlais Slaughterhouse

Energy and Water Consumption

Release for Calendar Year ending: ..... December 2022

**Reporting Form R1**

| Parameter                                                                      | Quantity        |
|--------------------------------------------------------------------------------|-----------------|
| Delivered Electricity MWh                                                      | 15,536.64       |
| Primary electricity (delivered electricity x 2.6)<br>MWh                       | 40,395.26       |
| Primary carbon dioxide (delivered electricity<br>x 0.2556kg CO <sub>2</sub> e) | 3,971.17 tonnes |
| Delivered gas MWh                                                              | 18,646          |
| Process water used m <sup>3</sup>                                              | 218,794         |

Signed on behalf of the Operator ...



Date ... 10/01/2023

**Schedule 3 - Form Number: R2****Operator: KEPAK Group Limited****Permit Number: AP3433ES**

Installation: Dowlais Slaughterhouse

Waste Return

Release for Calendar Year ending: ..... December 2022

| Reporting Form R2                                    |                           |                                    |                          |                                  |
|------------------------------------------------------|---------------------------|------------------------------------|--------------------------|----------------------------------|
| Parameter                                            | Raw Materials Used tonnes | Quantity Used in Production tonnes | Quantity to Waste tonnes | Fate of Waste                    |
| Animal tissue - SRM                                  | -                         |                                    | 6,162.91                 | Incineration                     |
| Animal tissue – Bones, Heads & Feet                  | -                         |                                    | 16,929.694               | *Rendering                       |
| Blood - Ovine                                        | -                         |                                    | 1,859.726                | Anaerobic Digestion              |
| Incinerator Bottom Ash                               | -                         |                                    | N/A                      | N/A                              |
| Packaging                                            |                           |                                    | **See notes              | **See notes                      |
| Sanitiser/Hygiene Chemicals/Detergents/ETP Chemicals |                           |                                    | 0.395                    | Foul Sewer + Anaerobic Digestion |
| Refrigerants                                         |                           |                                    | N/A                      | Air emissions                    |
| Mixed Waste                                          |                           |                                    | 93.027                   | Landfill                         |
| Metal                                                |                           |                                    | 8.3                      | Recycled                         |
| Plastic                                              |                           |                                    | 1,859.726                | Recycled                         |
| Cardboard/Paper                                      |                           |                                    | 46,080.068               | Recycled                         |
| Stomach Content, Lairage Waste & DAF Sludge          |                           |                                    | 6,212.11                 | Anaerobic Digestion              |

Signed on behalf of the Operator...

Date ...10/01/2023

**Notes:**

Sanitisers / hygiene chemicals, detergents and effluent treatment chemicals have been grouped as one category as they are all discharged to sewer or disposed of as effluent sludge.

\*\* Packaging: Packaging waste data is not finalised for the previous calendar year until mid Mar when it is used for the Packaging Waste Regulations submission. Once this data is available it will be forwarded to NRW.