

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 2019**

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

Signed on behalf of the Operator ... *H. May*

Date ...31/01/2020

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 2019**

Reporting Form A4				
Parameter	Limit value	Release Point A3	Release Point A4	Date of sampling
Oxides of Nitrogen mg/m ³	-	12.32 Low 14.58 High	1.85 Low 2.46 High	03/02/19
Carbon Monoxide mg/m ³	-	0 Low 0 High	0 Low 0 High	03/02/19

Signed on behalf of the Operator ... *H. May*

Date ...31/01/2020

Note:

Release Point A3 = No 1 Boiler

Release Point A4 = No 2 Boiler

Mg/m³ for NO_x 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 2019**

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 *H. May*

Date ...31/01/2020

Schedule 3 - Form Number: S2

Operator: KEPAK Group Limited

Permit Number: AP3433ES

Installation: Dowlais Slaughterhouse

Release to Sewer and Water

Release Point: S1, W1, W2

Release for Calendar Year ending: [December 2019](#)

Reporting Form S2		
Release point	Date of Sampling	Organophosphorus content mg/l
S1	05/10/2019	See attached certificate.
W1	05/10/2019	See attached certificate.
W2	05/10/2019	See attached certificate.

Signed on behalf of the Operator ... 

Date ...31/01/2020

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 2019](#)

Reporting Form R1	
Parameter	Quantity
Delivered Electricity MWh	17102
Primary electricity (delivered electricity x 2.6) MWh	44465.2
Primary carbon dioxide (delivered electricity x 0.2556kg CO2e)	4371.27 tonnes
Delivered gas MWh	17977
Process water used m ³	219240

Signed on behalf of the Operator ... 

Date ...31/01/2020

Schedule 3 - Form Number: R2

Operator: KEPAK Group Limited

Permit Number: AP3433ES

Installation: Dowlais Slaughterhouse

Waste Return

Release for Calendar Year ending: **December 2019**

Reporting Form R2				
Parameter	Raw Materials Used tonnes	Quantity Used in Production tonnes	Quantity to Waste tonnes	Fate of Waste
Animal tissue - SRM	-	-	8,193	Incineration
Animal tissue – Bones, Heads & Feet	-	-	*	*Rendering
Blood - Ovine	-		2,814	Anaerobic Digestion
Incinerator Bottom Ash	-	-	N/A	N/A
Packaging			**See notes	**See notes
Sanitiser/Hygiene Chemicals/Detergents/ETP Chemicals			109 * see note	Foul Sewer + Anaerobic Digestion
Refrigerants			2.228	Air emissions
Mixed Waste			601.64	Landfill
Metal			36.96	Recycled
Plastic			0	Recycled
Cardboard/Paper			69.98	Recycled
Stomach Content, Lairage Waste & DAF Sludge			14,355	Anaerobic Digestion

Signed on behalf of the Operator...

H. May

Date ...31/01/2020

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.

2014: Some bovine blood is now sold for pet food and is not classified as waste.

2015: Some bones have been sold for further processing and have not been classified as waste.

* Bones, Heads & Feet were combined in 2018.

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

2019-ETP chemical volumes to follow. An updated report will be issued on receipt of the data.

Permit EPR/AP3433ES

Date of form 13/10/14