

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 2018**

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 

Date 31/1/2019

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 2018**

Reporting Form A4				
Parameter	Limit value	Release Point A3	Release Point A4	Date of sampling
Oxides of Nitrogen mg/m ³	-	115.0 low 154.02 High	82.14 Low 86.25 High	17/02/18
Carbon Monoxide mg/m ³	-	11.52 Low 11.62 High	9.50 Low 11.16 High	17/02/18

Signed on behalf of the Operator 

Date 21/1/2019

Note:

Release Point A3 = No 1 Boiler

Release Point A4 = No 2 Boiler

Mg/m³ for NO_x and CO calculated using:

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

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

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 2018**

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 **31/1/2019**

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 2018**

Reporting Form S2		
Release point	Date of Sampling	Organophosphorus content mg/l
S1	06/12/2018	See attached certificate.
W1	06/12/2018	See attached certificate.
W2	06/12/2018	See attached certificate.

Signed on behalf of the Operator



Date

31/1/2019

NOTES:



ALS Environmental Ltd
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www.alsenvironmental.co.uk

Mr Lavercombe
KEPAK
Pengarnddu Industrial Estate
Dowlais Top
Merthyr CF48 2TA
Glamorgan

31 December 2018

Test Report: COV/1646971/2018

Dear Mr Lavercombe

Analysis of your sample(s) submitted on 06 December 2018 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Environmental Ltd and we look forward to receiving your next samples.

Yours Sincerely,

Signed: 

Name: D. Lewis

Title: Inorganic Team Leader



Report Summary



1314
0897
4409



Mr Rob Lavercombe
KEPAK
Pengarnddu Industrial Estate
Dowlais Top
Merthyr
Glamorgan
CF48 2TA

Date of Issue: **31 December 2018**

Report Number: **COV/1646971/2018**

Issue **1**

This issue replaces
all previous issues

Job Description: PP8/W1/TPH Analysis

Job Location: PP8/W1/TPH Analysis

Number of Samples
included in this report **3**

Job Received: 06 December 2018

Number of Test Results
included in this report **57**

Analysis Commenced: 13 December 2018

Signed:

Name: **D. Lewis**

Date: **31 December 2018**

Title: **Inorganic Team Leader**

ALS Environmental Ltd was not responsible for sampling unless otherwise stated.

Information on the methods of analysis and performance characteristics are available on request.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This communication has been sent to you by ALS Environmental Ltd. Registered in England and Wales. Registration No. 02148934. Registered Office: ALS Environmental Limited, Torrington Avenue, Coventry, CV4 9GU.

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Certificate of Analysis



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0897
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Report Number: **COV/1646971/2018**

Issue **1**

Laboratory Number: **17759902**

Sample **1** of **3**

Sample Source: **KEPAK**

Sample Point Description: **St. Merryns Meat**

Sample Description: **Annual PP8**

Sample Matrix: **Trade Effluent**

Sample Date/Time: **06 December 2018**

Sample Received: **06 December 2018**

Analysis Complete: **31 December 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Azinphos-ethyl	<0.169	ug/l	26/12/2018	Y Cov	GEO47
Azinphos-methyl	Analyst Com	ug/l	31/12/2018	Y Cov	GEO47
Carbophenothion	<0.263	ug/l	26/12/2018	Y Cov	GEO47
Chlorfenvinphos	<0.174	ug/l	26/12/2018	Y Cov	GEO47
Chlorpyrifos	<0.126	ug/l	26/12/2018	Y Cov	GEO47
Diazinon	0.35	ug/l	26/12/2018	Y Cov	GEO47
Dichlorvos	<0.097	ug/l	26/12/2018	Y Cov	GEO47
Dimethoate	<0.276	ug/l	26/12/2018	Y Cov	GEO47
Fenitrothion	<0.176	ug/l	26/12/2018	Y Cov	GEO47
Fenthion	<0.192	ug/l	26/12/2018	Y Cov	GEO47
Malathion	<0.192	ug/l	26/12/2018	Y Cov	GEO47
Mevinphos	<0.165	ug/l	26/12/2018	Y Cov	GEO47
Parathion-ethyl	<0.169	ug/l	26/12/2018	Y Cov	GEO47
Parathion-methyl	<0.151	ug/l	26/12/2018	Y Cov	GEO47
Phorate	<0.238	ug/l	26/12/2018	Y Cov	GEO47
Phosalone	Analyst Com	ug/l	31/12/2018	Y Cov	GEO47
Pirimiphos-methyl	<0.178	ug/l	26/12/2018	Y Cov	GEO47
Propetamphos	<0.137	ug/l	26/12/2018	Y Cov	GEO47
Triazophos	Analyst Com	ug/l	31/12/2018	Y Cov	GEO47

Analyst Comments for 17759902:

This sample has been analysed for Pesticides method GEO47 outside recommended stability times. It is therefore possible that the results provided may be compromised. Reporting limits raised for Pesticides due to the nature of the sample matrix.

Unable to provide results for GCMSMS Pesticides due to quality failure.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **D. Lewis**

Date: **31 December 2018**

Title: **Inorganic Team Leader**

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Report Number: **COV/1646971/2018**

Issue **1**

Laboratory Number: **17759903**

Sample **2** of **3**

Sample Source: **KEPAK**

Sample Point Description: **St. Merryns Meat**

Sample Description: **Annual W1**

Sample Matrix: **Trade Effluent**

Sample Date/Time: **06 December 2018**

Sample Received: **06 December 2018**

Analysis Complete: **31 December 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Azinphos-ethyl	<0.009	ug/l	15/12/2018	Y Cov	GEO47
Azinphos-methyl	<0.008	ug/l	15/12/2018	Y Cov	GEO47
Carbophenothion	<0.014	ug/l	15/12/2018	Y Cov	GEO47
Chlorfenvinphos	<0.010	ug/l	15/12/2018	Y Cov	GEO47
Chlorpyrifos	<0.007	ug/l	15/12/2018	Y Cov	GEO47
Diazinon	0.074	ug/l	15/12/2018	Y Cov	GEO47
Dichlorvos	<0.006	ug/l	15/12/2018	Y Cov	GEO47
Dimethoate	<0.02	ug/l	15/12/2018	Y Cov	GEO47
Fenitrothion	<0.010	ug/l	15/12/2018	Y Cov	GEO47
Fenthion	<0.011	ug/l	15/12/2018	Y Cov	GEO47
Malathion	<0.011	ug/l	15/12/2018	Y Cov	GEO47
Mevinphos	<0.020	ug/l	15/12/2018	Y Cov	GEO47
Parathion-ethyl	<0.009	ug/l	15/12/2018	Y Cov	GEO47
Parathion-methyl	<0.008	ug/l	15/12/2018	Y Cov	GEO47
Phorate	<0.013	ug/l	15/12/2018	Y Cov	GEO47
Phosalone	<0.016	ug/l	15/12/2018	Y Cov	GEO47
Pirimiphos-methyl	<0.010	ug/l	15/12/2018	Y Cov	GEO47
Propetamphos	<0.008	ug/l	15/12/2018	Y Cov	GEO47
Triazophos	<0.009	ug/l	15/12/2018	Y Cov	GEO47

Analyst Comments for 17759903:

Reporting limits raised for Pesticides due to the nature of the sample matrix.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **D. Lewis**

Date: **31 December 2018**

Title: **Inorganic Team Leader**

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Report Number: **COV/1646971/2018**

Issue **1**

Laboratory Number: **17759904**

Sample **3** of **3**

Sample Source: **KEPAK**

Sample Point Description: **St. Merryns Meat**

Sample Description: **Annual W2**

Sample Matrix: **Trade Effluent**

Sample Date/Time: **06 December 2018**

Sample Received: **06 December 2018**

Analysis Complete: **31 December 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Azinphos-ethyl	<0.004	ug/l	15/12/2018	Y Cov	GEO47
Azinphos-methyl	<0.004	ug/l	15/12/2018	Y Cov	GEO47
Carbophenothion	<0.006	ug/l	15/12/2018	Y Cov	GEO47
Chlorfenvinphos	<0.004	ug/l	15/12/2018	Y Cov	GEO47
Chlorpyrifos	<0.004	ug/l	15/12/2018	Y Cov	GEO47
Diazinon	0.011	ug/l	15/12/2018	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	15/12/2018	Y Cov	GEO47
Dimethoate	<0.020	ug/l	15/12/2018	Y Cov	GEO47
Fenitrothion	<0.005	ug/l	15/12/2018	Y Cov	GEO47
Fenthion	<0.005	ug/l	15/12/2018	Y Cov	GEO47
Malathion	<0.004	ug/l	15/12/2018	Y Cov	GEO47
Mevinphos	<0.020	ug/l	15/12/2018	Y Cov	GEO47
Parathion-ethyl	<0.004	ug/l	15/12/2018	Y Cov	GEO47
Parathion-methyl	<0.004	ug/l	15/12/2018	Y Cov	GEO47
Phorate	<0.006	ug/l	15/12/2018	Y Cov	GEO47
Phosalone	<0.007	ug/l	15/12/2018	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	15/12/2018	Y Cov	GEO47
Propetamphos	<0.003	ug/l	15/12/2018	Y Cov	GEO47
Triazophos	<0.004	ug/l	15/12/2018	Y Cov	GEO47

Analyst Comments for 17759904:

Reporting limits raised for Pesticides due to the nature of the sample matrix.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), CTD = Coalbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **D. Lewis**

Date: **31 December 2018**

Title: **Inorganic Team Leader**

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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 2018**

Reporting Form R1	
Parameter	Quantity
Delivered Electricity MWh	16685.69
Primary electricity (delivered electricity x 2.6) MWh	43383
Primary carbon dioxide (delivered electricity x 0.28307kg CO2e)	12280.36
Delivered gas MWh	19442
Process water used m ³	226615

Signed on behalf of the Operator ..  ..

Date 31/1/2019 ..

Schedule 3 - Form Number: R2

Operator: KEPAK Group Limited

Permit Number: AP3433ES

Installation: Dowlais Slaughterhouse

Waste Return

Release for Calendar Year ending: **December 2018**

Reporting Form R2				
Parameter	Raw Materials Used tonnes	Quantity Used In Production tonnes	Quantity to Waste tonnes	Fate of Waste
Animal tissue - SRM	-	-	10099	Incineration
Animal tissue - Bones, Heads & Feet	-	-	* 6648.32	*Rendering
Blood - Ovine	-		2962.46	Anaerobic Digestion
Incinerator Bottom Ash	-	-	N/A	N/A
Packaging			**See notes	**See notes
Sanitiser/Hygiene Chemicals/Detergents/ETP Chemicals			322.5	Foul Sewer + Anaerobic Digestion
Refrigerants			3.5118	Air emissions
Mixed Waste			537.58	Landfill
Metal			18.29	Recycled
Plastic			0.38	Recycled
Cardboard/Paper			76.12	Recycled
Stomach Content, Lairage Waste & DAF Sludge			12,238.75	Anaerobic Digestion

Signed on behalf of the Operator.....

Date 31/1/2019.....

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.