ENVIRONMENTAL MANAGEMENT RECORD

Subject: Reporting of Performance Indicators for the Year 2018	Doc Id: WX-EMS-0017-EMR Revision: 1 Date: JUNE 2008

PERMIT REFERENCE NUMBER: BV 8016 ID, KP 3135 LW & EPR BV 8016 ID

OPERATOR: Kellogg Company of Great Britain Ltd

INSTALLATION: Wrexham Breakfast Cereals

FORM NUMBER: PI1

ANNUAL PRODUCTION/TREATEMENT	
Total site production:	76192 tonnes

ENVIRONMENTAL PERFORMANCE INDICATORS (EPI'S)

PARAMETER		
Releases to Sewer:	**ANNUAL EPI**	**UNITS**
Total Chemical Oxygen Demand release per tonne product	0.00021	Tonne/Tonne Product
Total Suspended Solids release per tonne product	0.00003	Tonne/Tonne Product
Specific energy consumption per tonne product	1.53	Tonne/Tonne Product
Refrigerant use	30.5	Kg/Year

TRENDS IN ENVIRONMENTAL PERFORMANCE		
Year	**Parameter**	
	COD release per tonne product	**Energy use per tonne product**
2014	0.00016	1.77
2015	0.00010	1.68
2016	0.00010	1.47
2017	0.00014	1.59
2018	0.00021	1.53

Signed: D C Edwards

(Authorised to sign as representative of the Operator)

Print Name: DARRAN EDWARDS

Date: 24/01/2019

ENVIRONMENTAL MANAGEMENT RECORD

Subject: Reporting of Energy

Doc Id: WX-EMS-0019-EMR
Revision: 1
Date: JUNE 2008

PERMIT REFERENCE NUMBER: BV 8016 ID, KP 3135 LW & EPR BV 8016 ID

OPERATOR: Kellogg Company of Great Britain Ltd

INSTALLATION: Wrexham Breakfast Cereals **FORM NUMBER:** E1

REPORTING PERIOD: 1st January – 31st December 2018

ENERGY SOURCE	ENERGY USAGE		CO_2 PRODUCED (Tonnes)
	QUANTITY	PRIMARY ENERGY (MWh)	
ELECTRICITY (MWh)	34463	88947	14931
GAS (MWh)	81837	81837	16858
GAS OIL (MWh)	0	0	0
TOTAL	116300	170784	31790

TRENDS IN ENERGY USAGE			
YEAR	PRIMARY ENERGY USAGE (MWh)	CO_2 PRODUCED (Tonnes)	CO_2 PER UNIT OUTPUT (Tonnes/Tonnes)
2015	168831	31425	0.466
2016	102460	27605	0.488
2017	110832	29582	0.502
2018	116300	31790	0.417

*Conversion factor delivered electricity to primary energy = 2.61

Operators Comments:

Signed: D C Edwards **Print Name:** DARRAN EDWARDS

(Authorised to sign as representative of the Operator) **Date:** 24/01/2019

PERMIT REFERENCE NUMBER: BV 8016 ID, KP 3135 LW & EPR BV 8016 ID

OPERATOR: Kellogg Company of Great Britain Ltd

INSTALLATION: Wrexham Breakfast Cereals

FORM NUMBER: A1

OXIDES OF NITROGEN

Emission Point	Date of Sampling (1)	Result of Sampling (1) (mg/m^3)	Date of sampling (2)	Result of sampling (2) (mg/m^3)
A1	16/07/18	56	5/11/18	78
A2	25/01/18	127	16/07/18	122
A3	Boiler off line		Boiler off line	
A4	25/01/18	70	22/07/18	87

OXIDES OF SULPHUR

Emission Point	Date of Sampling (1)	Result of Sampling (1) (mg/m^3)	Date of sampling (2)	Result of sampling (2) (mg/m^3)
A18	22/01/18	0	21/07/18	3
A19	22/01/18	0	21/07/18	3
A20	22/01/18	0	21/07/18	3
A21	22/01/18	0	21/07/18	6
A22	22/01/18	0	21/07/18	0

TOTAL PARTICULATE

Emission Point	Emission Limit Value	Test Method	Date of sampling	Result of sampling (mg/m^3)
A26	50mg/m^3 Hourly Average	BS EN 13284-1 and MID	27/09/18	0.14
A27			5/11/18	0.59
A28			27/09/18	1.59
A29			27/09/18	0.66

Signed: D C Edwards

Print Name: DARRAN EDWARDS

(Authorised to sign as representative of the Operator)

Date: 24/01/2019

ENVIRONMENTAL MANAGEMENT RECORD

Subject: Reporting of Waste Disposal and Recovery for the Year	Doc Id: WX-EMS-0018-EMR Revision: 1 Date: JUNE 2008

PERMIT REFERENCE NUMBER: BV 8016 ID, KP 3135 LW & EPR BV 8016 ID

OPERATOR: Kellogg Company of Great Britain Ltd

INSTALLATION: Wrexham Breakfast Cereals

FORM NUMBER: R1

REPORTING PERIOD: 1st January – 31st December 2018

WASTE DESCRIPTION	DISPOSAL		RECOVERY
	ROUTE	TONNES	TONNES
Hazardous Waste			185
Non Hazardous Waste (Non biodegradable)			520
Non Hazardous Waste (Biodegradable)			1207
Food waste sent for animal feed manufacture			8457
Total Waste			10369

TRENDS IN WASTE DISPOSAL AND RECOVERY			
YEAR	PARAMETER		
	TOTAL PRODUCTION (Tonnes)	TOTAL WASTE (Tonnes)	WASTE PER UNIT OUTPUT (Tonnes/Tonne)
2015	67319	8329	0.124
2016	56610	7579	0.134
2017	58954	11460	0.194
2018	76192	10369	0.136

Operators comments

Signed: D C Edwards

Print Name: DARRAN EDWARDS

(Authorised to sign as representative of the Operator)

Date: 24/01/2019

ENVIRONMENTAL MANAGEMENT RECORD

Subject: Reporting of Emissions to Sewer for 3 Months

Doc Id: WX-EMS-0016-EMR
Revision: 1
Date: JUNE 2008

PERMIT REFERENCE NUMBER: BV 8016 ID, KP 3135 LW & EPR BV 8016 ID

OPERATOR: Kellogg Company of Great Britain Ltd

INSTALLATION: Wrexham Breakfast Cereals **FORM NUMBER:** S2

REPORTING PERIOD: 1st January – 31st December 2018

Emission Point	Substance/Parameter	Maximum		Minimum		Average	Number of Results
		Value	Date	Value	Date		
S1	Chemical Oxygen Demand (mg/l)						
S1	Suspended Solids (mg/l)						
S1	Flow (m^3/day)						

REPORTING OF EMISSIONS TO SEWER FOR 12 MONTHS TO 31ST DECEMBER 2018

Emission Point	Substance/Parameter	Tonnes/Year
S1	Chemical Oxygen Demand	16.0
S1	Suspended Solids	2.52

Signed: D C Edwards **Print Name:** DARRAN EDWARDS

(Authorised to sign as representative of the Operator) **Date:** 24/01/2019

ENVIRONMENTAL MANAGEMENT RECORD

Subject: Reporting of Water Usage

Doc Id: WX-EMS-0020-EMR
Revision: 1
Date: JUNE 2008

PERMIT REFERENCE NUMBER: BV 8016 ID, KP 3135 LW & EPR BV 8016 ID

OPERATOR: Kellogg Company of Great Britain Ltd

INSTALLATION: Wrexham Breakfast Cereals **FORM NUMBER:** WU1

REPORTING PERIOD: 1st January – 31st December 2018

WATER SOURCE	USAGE (M^3)	SPECIFIC USAGE (M^3/Tonne)
Mains water (Potable)	217,898	2.9
Non potable water	35,604	0.5
Total Water Usage	253,502	3.3

TRENDS IN WATER USAGE		
YEAR	**PARAMETER**	
	Total Water Usage (M^3)	**Water per unit output (M^3/Tonne)**
2015	224962	3.3
2016	249532	4.4
2017	249934	4.2
2018	253,502	3.3

Signed: D C Edwards

(Authorised to sign as representative of the Operator)

Print Name: DARRAN EDWARDS

Date: 24/01/2019