

Permit Reference Number : UP3237CP

Operator : Solway Foods Ltd

Installation : Rogerstone Park

Form Number : A1

Reporting of Emissions to Air for the period from Jan 1st 2017.....to...Dec 31st 2017

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A1	NOx	----	2.32 mg/m ³	BS EN 14792:2017	07/12/2017 11:35 – 12:34	UKAS/MCERTS	2%
A1	CO	----	7.09 mg/m ³	BS EN 15058:2017		UKAS/MCERTS	3%
A1	Particulates	----	0.30 mg/m ³	BS EN 13284-1: 2002	07/12/2017 11:36 – 12:36	UKAS/MCERTS	87%
A2	NOx	----	89.98 mg/m ³	BS EN 14792:2017	05/12/17 13:41 – 14:40	UKAS/MCERTS	2%
A2	CO	----	3.59 mg/m ³	BS EN 15058:2017		UKAS/MCERTS	3%
A2	Particulates	----	1.54 mg/m ³	BS EN 13284-1: 2002	05/12/17 13:40 – 14:40	UKAS/MCERTS	87%
A3	NOx	----	143.72 mg/m ³	BS EN 14792:2017	05/12/2017 12:01 – 13:00	UKAS/MCERTS	2%
A3	CO	----	0.14 mg/m ³	BS EN 15058:2017		UKAS/MCERTS	3%
A3	Particulates	----	0.44 mg/m ³	BS EN 13284-1: 2002	05/12/2017 12:00 – 13:00	UKAS/MCERTS	87%
A4	NOx	----	116.61 mg/m ³	BS EN 14792:2017	05/12/17 10:31 – 11:30	UKAS/MCERTS	2%
A4	CO	----	0.14 mg/m ³	BS EN 15058:2017		UKAS/MCERTS	3%
A4	Particulates	----	0.38 mg/m ³	BS EN 13284-1: 2002	05/12/17 10:30 – 11:30	UKAS/MCERTS	87%
A5	NOx	----	212.64 mg/m ³	BS EN 14792:2017	06/12/17 13:16 – 14:15	UKAS/MCERTS	2%
A5	CO	----	52.09 mg/m ³	BS EN 15058:2017		UKAS/MCERTS	3%
A5	Particulates	----	0.75 mg/m ³	BS EN 13284-1: 2002	06/12/17 13:15 – 14:15	UKAS/MCERTS	87%
A6	NOx	----	5.24 mg/m ³	BS EN 14792:2017	06/12/17 10:35 – 11:34	UKAS/MCERTS	2%
A6	CO	----	21.19 mg/m ³	BS EN 15058:2017		UKAS/MCERTS	2%
A6	Particulates	----	0.29 mg/m ³	BS EN 13284-1: 2002	06/12/17 10:34 – 11:34	UKAS/MCERTS	87%
A7	NOx	----	5.06 mg/m ³	BS EN 14792:2017	08/12/2017 11:01 – 12:00	UKAS/MCERTS	2%
A7	CO	----	22.10 mg/m ³	BS EN 15058:2017		UKAS/MCERTS	2%
A7	Particulates	----	0.36 mg/m ³	BS EN 13284-1: 2002	08/12/2017 09:31 – 10:30	UKAS/MCERTS	87%
A8 LHS	NOx	----	214.59 mg/m ³	BS EN 14792:2017	08/12/2017 13:26 – 14:25	UKAS/MCERTS	2%
A8 LHS	CO	----	64.23 mg/m ³	BS EN 15058:2017		UKAS/MCERTS	2%
A8 LHS	Particulates	----	3.60 mg/m ³	BS EN 13284-1: 2002	08/12/2017 13:25 – 14:25	UKAS/MCERTS	88%
A9	NOx	----	209.53 mg/m ³	BS EN 14792:2017	08/12/2017 14:51 – 15:50	UKAS/MCERTS	2%
A9	CO	----	63.03 mg/m ³	BS EN 15058:2017		UKAS/MCERTS	2%
A9	Particulates	----	3.29 mg/m ³	BS EN 13284-1: 2002	08/12/2017 14:50 – 15:50	UKAS/MCERTS	88%

Operator's comments:

[1] 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.

[2] 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.

[3] 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.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated) – *{The basis of any other uncertainty figure needs to be stated. Where no figure is available the Agency will need to agree an appropriate uncertainty value.}*

Signed Robert Davies (Site Engineering Manager)
(authorised to sign as representative of the Operator)

Date: 16th January 2018

Permit Reference Number : UP3237CP

Operator : Solway Foods Ltd

Installation : Rogerstone Park

Form Number : S1

Reporting of Emissions to Sewer for the period from Jan 1st 2017.....to...Dec 31st 2017

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
S1	pH		7		Fortnightly	Welsh Water	
S1	Flow Rate		1945m ³ /day	Welsh Water	Fortnightly		
S1	COD		1009	Chemical Oxygen Demand (dichromate Value) of Polluted and waste waters 1986 (2 nd Edition)	1 st Jan 16-31 st Dec 17	Hmso isbn:011 7519154	3.5% High Standard
S1	Suspended solids		523	Suspended,Settleable & total dissolved Solids in waters and effluents 1980	1 st Jan 16-31 st Dec 17	Hmso isbn 01751957x	19.7% High Standard
S1	Cadmium	0.01 mg/l ^[6]	0.0000180	Mass Balance Calc	1 st Jan 17-31 st Dec 17	Msds Data	
S1	Mercury	0.0001 mg/l ^[6]	0.0000559	Mass Balance Calc	1 st Jan 17-31 st Dec 17	Msds Data	
S1	Cadmium and its compounds	2800 g/year ^[6]	11.75g/year	Mass Balance Calc	1 st Jan 17-31 st Dec 17	Msds Data	
S1	Mercury and its compounds	330 g/year ^[6]	36.41 g/year	Mass Balance Calc	1 st Jan 17-31 st Dec 17	Msds Data	

[1] 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.

[2] 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. colorimetry.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated).

[6] The emission limit values for cadmium and mercury are expressed as maximum individual values.

Signed Robert Davies (Site Engineering Manager)
(authorised to sign as representative of the Operator)

Date: 16th January 2018

Permit Reference Number : UP3237CP

Operator : Solway Foods Ltd

Installation : Rogerstone Park

Form Number : R1

Reporting of Waste Disposal and Recovery for the year Jan 1st 2017.....to...Dec 31st 2017

Waste Description	Disposal Route	Tonnes	Recovery Tonnes
General Waste	Off Site Waste – To- Energy	3734	0
Food Wastes (packed and loose food Cat 3 to AD Plant)	Off site - AD Plant	4737	4737
Category 3 waste unfit for human consumption non-haz. Waste (ETP /potato sludge)	AD Plant	11064	11064
Other non-haz. wastes	Recycling	1188	1188
Total non-haz. waste		20,724	20,724
Total Haz. Waste	Recovered	0	00
TOTAL WASTE	-	20742	16,989

Trends in Waste Disposal and Recovery			
Year	Parameter		
	Total non hazardous waste	Total hazardous waste	Total waste per unit output
2011	15254	1.4	0.60
2012	13,324	3	0.58
2013	15366	5.33	0.59
2014	14564	2.9	0.54
2015	11010	2.6	0.42
2016	16444.8	6.2	0.58
2017	20,724	0	0.62

Operator's comments :

All food wastes, are sent to an off site AD facility. All packed wastes are sent to a sorting facility and the organic content then incinerated for heat recovery. There is a recovery element to the figures reported but we have reported '0' to be cautious (as the exact figures were difficult to quantify). Recycling streams sent from site include paper, cardboard, plastic, metal and wooden pallets and WEEE waste.

Production tonnage has increased significantly across the site, resulting in higher waste amounts. Recycling rates are the highest the site has ever achieved. This is due to the increase in man power in the on site waste recycling facility – hand sorting.

Signed Robert Davies (Site Engineering Manager)
(authorised to sign as representative of the Operator)

Date: 16th January 2018

Permit Reference Number : UP3237CP

Operator : Solway Foods Ltd

Installation : Rogerstone Park

Form Number : WU1

Reporting of Water Usage for the year Jan 1st 2017.....to...Dec 31st 2017

Water Source	Usage (m ³)	Specific Usage (m ³ /t)
Mains water		
2011	558874	22.02
2012	501772	21.93
2013	579250	22.43
2014	626567	23.18
2015	576706	21.99
2016	620000	22.85
2017	780000	23.45

Operator's comments: Water Use is based on 90% return to sewer. This figure was taken from previous year RTS average. The reason for this is we do not have accurate data from the incoming water meter. We have sporadic data, so it is more reliable to take the discharge volumes (which is measured by an MCERTified meter).

Signed Robert Davies (Site Engineering Manager)

Date: 16th January 2018

(authorised to sign as representative of the Operator)

Permit Reference Number : UP3237CP

Operator : Solway Foods Ltd

Installation : Rogerstone Park

Form Number : E1

Reporting of Energy Usage for the year Jan 1st 2017.....to...Dec 31st 2017

Energy Source	Energy Usage		
	Quantity	Primary Energy (MWh)	CO ₂ Produced (tonnes)
Electricity *	MWh (24,417)	58602	9734
Natural Gas	tonnes	88,156	16747
TOTAL	-		

* Conversion factor for delivered electricity to primary energy = 2.4

Trends in Energy Usage			
Year	Parameter		
	Primary Energy usage	CO ₂ produced	CO ₂ per unit output
2011	124,600	22,275	0.88
2012	111278	20,029	0.88
2013	119543	21,477	0.83
2014	127848	22,918	0.84
2015	13166	23,581	0.89
2016	16565	30149	1.06
2017	14675	26481	

Operator's comments :

Co2 primary Electricity MWh *0.1661 = tonnes Co2

Co2 Natural gas MWh *0.19 = tonnes Co2

We have disputed our gas usage with our energy provider in 2017. These figures are agreed with the supplier but the site feels that the usage is still too high.

Production was 33,258 in 2017

Signed Robert Davies (Site Engineering Manager)

Date: 16th January 2018

(authorised to sign as representative of the Operator)

Permit Reference Number : UP3237CP

Operator : Solway Foods Ltd

Installation : Rogerstone Park

Form Number : PI1

Reporting of Performance Indicators for the year Jan 1st 2017.....to....Dec 31st 2017

Annual Production/Treatment	
Production of frozen and chilled produce	tonnes
	33,258

Environmental Performance Indicators

Parameter	Annual Average	Units
Effluent discharged to sewer	21.34	M3/tonnes
Water use	23.45	M3/tonnes
Non-hazardous waste	0.62	Tonne/Tonne
Hazardous waste	0	Tonne/Tonne

Trends in Environmental Performance				
Year	Parameter			
	Effluent discharged to sewer	Water use	Non-hazardous waste	Hazardous waste
2011	18.18	22.02	0.59	0.00005
2012	18.71	21.93	0.58	0.00013
2013	19.72	22.43	0.58	0.00027
2014	20.82	23.20	0.54	0.00027
2015	20.75	21.99	0.41	0.0001
2016	21.56	22.85	0.58	0.0002
2017				

Operator's comments: There was no hazardous waste sent off site in 2017. The site has generated some waste that is catagorised as hazardous (lighting tubes and small amounts of waste oil) they are being stored on site in very small amounts until the waste management company creates an uplift.

Signed Robert Davies (Site Engineering Manager)
(authorised to sign as representative of the Operator)

Date: 16th January 2018