Permit Reference Number : UP3237CP

Operator : Solway Foods Ltd

Installation : Rogerstone Park

Form Number : S1

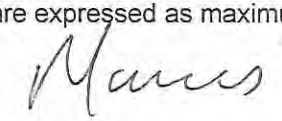
Reporting of Emissions to Sewer for the period from Jan 1st 2022.....to...Dec 31st 2022
Water Use - 795,735 m^3

Emission Point	Substance / Parameter	Emission Limit Value	Result [1]	Test Method [2]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
S1	pH	6-11	6.2		Monthly	Welsh Water	
S1	Flow Rate	2000 / day	1876 m^3/day	Welsh Water	Fortnightly	MCERTS meter	
S1	COD		851 (Highest 1110, Lowest 27.9)	Chemical Oxygen Demand (dichromate Value) of Polluted and waste waters 1986 (2nd Edition)	1st Jan 22-31st Dec 22	Hmso isbn:011 7519154	3.5% High Standard
S1	Suspended solids		298.8 (Highest 627, Lowest 18.2)	Suspended,Settleable & total dissolved Solids in waters and effluents 1980	1st Jan 22-31st Dec 22	Hmso isbn 01751957x	19.7% High Standard
S1	Cadmium	0.01 mg/l [6]	0.000028	Mass Balance Calc	1st Jan 22-31st Dec 22	Supplier/MSDS	
S1	Mercury	0.0001 mg/l [6]	0.000174	Mass Balance Calc	1st Jan 22-31st Dec 22	Supplier/MSDS	
S1	Cadmium and its compounds	2800 g/year[6]	119.3g/year	Mass Balance Calc	1st Jan 22-31st Dec 22	Supplier/MSDS	
S1	Mercury and its compounds	330 g/year [6]	19.5g/year	Mass Balance Calc	1st Jan 22-31st Dec 22	Supplier/MSDS	

Notes – A new DAF plant and associated holding tank have been added to the ETP in 2022. This has significantly reduced the average COD and SS readings. The additional capacity also provides support for any future peaks and troughs of production.
The pH average is provided here. The sewerage undertaker (Welsh Water) is aware of the occurrence of a few noncompliance tests with regard to pH and FOGs. These were allowed due to commissioning allowances. The site was affected by the nationwide shortage of caustic, but group wide guarantee of supply is now in place.

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[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: 30th January 2023

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 2022.....to...Dec 31st 2022

Waste Description	Disposal Route	Tonnes	Recovery Tonnes
General Waste	Off Site Waste – Recycled and organic contents AD.	2,902	2,902 (R3)
Food Wastes (packed and loose food Cat 3 to AD Plant)	Off site - AD Plant	2,685	2,685
Category 3 waste unfit for human consumption non-haz. Waste (ETP /potato sludge mixed together on collection)	AD Plant	6,354	6,354
Other non-haz. wastes	Recycling	420	420
Scrap Metal	Recycling	118	118
Food Oil (rapeseed/vegetable)	Recycling (biofuel)	176.2	176.2
Total non-haz. waste		12,679.2	12,679.2
Total Haz. Waste	Recovered	0.2	0.2
TOTAL WASTE	-	12,679.18	12,679.18

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
2019	15,342	15.32	0.51
2020	14,815	3.32	0.53
2021	14,088	0	0.49
2022	12,679.2	0.2	0.50

Operator's comments :

Landfill as a disposal option is prohibited by group.
Hazardous Waste total consists of two uplifts of lighting tubes, removed by Balcan Engineering for recycling. Hazardous waste EWC – 20.01.21*

Food donations to charity (divisional sustainability drive for food waste reduction) has driven disposal costs and respective tonnages down significantly. These donations are not measured by weight but by pallet if NRW was interested in amounts. Of course, these food donations are not considered 'waste'.

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



Date: 30th January 2023

Permit Reference Number : UP3237CP

Operator : Solway Foods Ltd

Installation : Rogerstone Park

Form Number : WU1

Reporting of Water Usage for the year Jan 1st 2022.....to...Dec 31st 2022

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
2018	889453	25.55
2019	748920	25.28
2020	767,491	27.68
2021	803,396	25.57
2022	795,735	31.39

Operator's comments: Water use has decreased, but the m3 per tonne of product looks unfavourably due to the 20% reduction in production tonnage in 2022.

Signed Robert Davies (Site Engineering Manager)

(authorised to sign as representative of the Operator)

Date: 30th January 2023

Permit Reference Number : UP3237CP

Operator : Solway Foods Ltd

Installation : Rogerstone Park

Form Number : E1

Reporting of Energy Usage for the year Jan 1st 2022.....to...Dec 31st 2022

Energy Source	Energy Usage Quantity	Primary Energy (MWh)	CO_2 Produced (tonnes)
Electricity *	kWh (4562200)	10,949	2,113
Natural Gas	kWh (125,543,851)	125,543	22,849
TOTAL	-	136,492	24,961.8

* 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	131660	23,581	0.89
2016	165650	30149	1.06
2017	146750	26481	0.80
2018	134420	24108	0.76
2019	135570	25,204	0.85
2020	137865	25,887	0.93
2021	139,047	26,090	0.83
2022	136,492	24,962	0.98

Operator's comments :
Co2 primary Electricity MWh *0.193 = tonnes Co2
Co2 Natural gas MWh *0.182 = tonnes Co2
Note – C02 conversion factors updated from 2022 Greenhouse gas reporting: conversion factors 2022 - GOV.UK (www.gov.uk)

Signed Robert Davies (Site Engineering Manager)

(authorised to sign as representative of the Operator)

Date: 30th January 2023

Permit Reference Number : UP3237CP

Operator : Solway Foods Ltd

Installation : Rogerstone Park

Form Number : PI1

Reporting of Performance Indicators for the year Jan 1st 2022.....to...Dec 31st 2022

Annual Production/Treatment	
Production of frozen and chilled produce	tonnes
	25,344

Environmental Performance Indicators

Parameter	Annual Average	Units
Effluent discharged to sewer	27.01	M3/tonnes
Water use	31.39	M3/tonnes
Non-hazardous waste	0.50	Tonne/Tonne
Hazardous waste	0.00007	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
2019	22.00	25.28	0.51	0.0005
2020	24.03	27.68	0.53	0.0001
2021	21.43	25.57	0.44	0.00004
2022	27.01	31.39	0.50	0.00007

KPI trends appear unfavourably for 2022 due to the 20% reduction in factory production.

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

Date: 30th January 2023