

Permit Reference Number: BX8289IW

Installation: Princes Soft Drinks - Cardiff

Operator: Princes Ltd

Form Number: M1

Reporting of Mass release to sewer for the period from ...1st January 2017.....to...31st Dec 2017.....

Emission Point	Substance / Parameter	Annual Limit Value g	Result ^[1]
S1	Cadmium (and its compounds as Cd	0.5	0.31
S1	Mercury and its compounds as Hg	1.5	0.51

[1] The result given is calculated using a mass balance. See Permit condition 6.1.1

SignedMark Thomas.....
(Authorised to sign as representative of the Operator)

Date.....26th February 2018.....

Permit Reference Number: BX8289IW

Installation: Princes Soft Drinks - Cardiff

Operator: Princes Ltd

Form Number: R1

Reporting of Waste Disposal and Recovery for the year2017.....

Waste Description	Disposal Route	Tonnes	Recovery Tonnes
1) Hazardous Waste		3.405	3.405
2) Non-Hazardous Waste		347.03	347.03
TOTAL WASTE		350.435	350.435

Trends in Waste Disposal and Recovery Year	Hazardous waste (t)	Non hazardous waste (t) /	Total waste (t)
2008	0.985	772	773.15
2009	0.83	1312.5	1313.37
2010	2.49	843.66	846.15
2011	0.074	832.81	832.88
2012	28.511	1260.3	1288.79
2013	0.631	1015.16	1015.79
2014	0.418	743.72	744.14
2015	0.98	306.019	306.999
2016	9.75	1281.52	1291.266
2017	3.405	347.03	350.435

Operator's comments:

Signed Mark Thomas.....
(Authorised to sign as representative of the Operator)

Date...26th February 2018.....

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Form Number: WU1

Reporting of Water Usage for the year2017.....

Water Source	Usage (m ³)	Specific Usage (m ³ /t)
Mains water	168132	1.467
TOTAL WATER USAGE	168132	1.467

Trends in Water Usage Year	Named Water source	Total Water usage m ³	Water / finished product (t)
2013		192820	1.14
2014		189962	1.311
2015		176707	1.354
2016		145988	1.327
2017		168132	1.467

Operator's comments: .

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Operator: Princes Ltd

Installation: Princes Soft Drinks - Cardiff

Form Number: E1

Reporting of Energy Usage for the year2017.....

Energy Source	Energy Usage		CO ₂ Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh 4000.53	9601.272	1593.811
Natural Gas	MWh 6253.045	6253.045	1187.350
TOTAL	MWh 10253.58	15854.317	2781.161

* Conversion factor for delivered electricity to primary energy = delivered electricity to primary energy multiply by 2.4 (from 2010)
delivered electricity in kWh to kg CO2 multiply by 0.166

Trends in Energy Usage			CO ₂ / finished product (t)
Year	Parameter Primary Energy usage	CO ₂ produced	
2010	25430	2458	0.043
2011	21938	2503	0.041
2012	15431	2718	0.039
2013	16795	2951	0.017
2014	16885	2961	0.018
2015	9758	2632	0.022
2016	10221	2671	0.024
2017	10254	2781	0.02468

Operator's comments:

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Form Number: PI1

Reporting of Performance Indicators for the year2017.....

Annual Production/m3	
Fruit Juices	114600.78

Environmental Performance Indicators

Parameter	Annual Average	Units
Specific water use	1.467	m3/m3 ratio
Specific production waste	3.058	kg/m3
Specific energy use	498.038	MJ/m3

Trends in Environmental Performance			
Year	Parameter	Water use (m ³) /tonne of finished product	Waste kg/t of finished product
2014		1.31	7.007
2015		1.35	8.1965
2016		1.33	9.2259
2017		1.467	3.058
			419.6
			435.7
			494.96
			498.038

Operator's comments:

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Form Number S1

Reporting Emissions to Sewer for the period1st January 2017to.....31st Dec 2017.....

Emission Point	Substance/parameter	Emission Limit value(1)	Result
S1	COD	None set	2761.77
S1	pH	None set	8.34
S1	Suspended Solids	None set	91.1
S1	Effluent Flow	None set	48871
S1	Cadmium and its compounds as Cd	0.01mg/l	0.00000064
S1	Mercury and its compounds as Hg	0.1µg/l	0.0000105

(1) The emission limit values for mercury and cadmium are expressed as annual averages calculated by mass balance. See permit condition 6.1.1

Signed.....Mark Thomas.....
(Authorised to sign as representative of the Operator)

Date.....26th February 2018.....