

Permit Number: EPR/BX7282IS
Facility: Magor Brewery
Date of form 19/07/11

Operator: Inbev UK Ltd
Form Number: A2.

Reporting of emissions to air for the period from 1st January 2019 to 31st December 2019

Emission Point	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/certification ^[4]	Uncertainty ^[5]
	Substance / Parameter	Limit Value					
A8	Oxides of nitrogen as NO2	500	338	BS EN 14792	26 rd April 2019 11:00-12:00	Mcerts MC 050056/00	22.6
	Carbon monoxide	650	440	BS EN 15058	26 rd April 2019 12:53-13:53	Mcerts MC 050056/00	25.2
	Sulphur Dioxide	80	0.79	BS EN 14791	26 rd April 2019 12:53-13:53	Mcerts MC 050056/00	0.06
	Oxides of nitrogen as NO2	500	391	BS EN 14792	26 th July 2019 11:00-12:00	Mcerts MC 050056/00	21.6
	Carbon monoxide	650	442	BS EN 15058	26 th July 2019 11:00-12:00	Mcerts MC 050056/00	27.4
	Sulphur Dioxide	80	58	BS EN 14791	26 th July 2019 11:00-12:00	Mcerts MC 050056/00	4.5
	Oxides of nitrogen as NO2	500	417	BS EN 14792	9 th October 2019 11:58-12:58	Mcerts MC 050056/00	17.8
	Carbon monoxide	650	446	BS EN 15058	9 th October 2019 11:58-12:58	Mcerts MC 050056/00	19.9
	Sulphur Dioxide	80	152	BS EN 14791	9 th October 2019 11:58-12:58	Mcerts MC 050056/00	11.9
	Oxides of nitrogen as NO2	500	417	BS EN 14792	15 th November 2019 12:11-13:11	Mcerts MC 050056/00	29.4
	Carbon monoxide	650	446	BS EN 15058	15 th November 2019 12:11-13:11	Mcerts MC 050056/00	37.6
	Sulphur Dioxide	80	93.9	BS EN 14791	15 th November 2019 12:11-13:11	Mcerts MC 050056/00	8.3

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 Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example 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 uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
5. Form A1 submitted for the October and November results due to limit breach.

SignedCarl Rogers.....
(Authorised to sign as representative of Inbev UK Ltd)

Date.....19/02/2020....

Permit Number: EPR/BX72821S
Facility: Magor Brewery

Operator: Inbev UK Ltd
Form Number: E2. Date of form 19/07/11

Reporting of Energy Generation for the year 1st January 2019 to 31st December 2019

Energy Source	Energy Usage	
	Quantity	Energy generated/m ³ biogas (MWh/m ³)
Electricity generation	2074 MWh	0.001
Heat generated	2725 MWh	0.002
TOTAL		

Operator's comments :

SignedCarl Rogers.....
(Authorised to sign as representative of Operator)

Date.....19/2/2020.....

Form Number: R1

Reporting of Waste Disposal and Recovery for the year Jan 1st 2019 to December 31st 2019

Waste Description	Disposal Route	Tonnes	Recovery Tonnes
1) Hazardous Wastes			
Named haz. Waste	Biffa Waste Management	1.00	1.00
Other hazardous wastes			
Total hazardous waste			
2) Non-Hazardous Wastes			
Named non-haz. Waste	Biffa Waste Management and N-virocycle	21467.57	21467.57
Other non-hazardous wastes			
Total non-hazardous waste			
TOTAL WASTE		21468.57	21467.57

Trends in Waste Disposal and Recovery			
Year	Parameter		
	Named Waste	Total Waste	Waste per unit output
2005	33228	33562	Report on PI1
2006	12961	12961	Report on PI1
2007	16383	16383	Report on PI1
2008	15801	15801	Report on PI1
2009	16623	16623	Report on PI1
2010	25378	25378	Report on PI1
2011	32314	32314	Report on PI1
2012	28122	28122	Report on PI1
2013	19823	19823	Report on PI1
2014	20327	20327	Report on PI1
2015	19948	19448	Report on PI1
2016	20367	20367	Report on PI1
2017	23984	23993	Report on PI1
2018	18966	18969.68	Report on PI1
2019	21468.57	21468.57	Report on PI1

Operator's comments :

This waste is inclusive of sludge from our WWTP and onsite waste kiesulguhr tanks.

SignedCarl Rogers.....
(authorised to sign as representative of the Operator)

Date.....19/2/2020.....

Form Number: WU1

Reporting of Water Usage for the year Jan 1st 2019 to December 31st 2019

Water Source	Usage (m ³)	Specific Usage (m ³ /t)
Spring water	1706793	3.50
Mains water	28278	0.058
TOTAL WATER USAGE	1735071	3.558

Trends in Water Usage				
Year	Parameter			
	Spring Water Source	Mains Water Source	Total Water usage	Water per unit output
2005	2197934	16813	2214747	Report on PI1
2006	2324340	13139	2337479	Report on PI1
2007	2303437	17217	2320654	Report on PI1
2008	2063466	19462	2082928	Report on PI1
2009	1934551	21173	1955724	Report on PI1
2010	2487347	29020	2516367	Report on PI1
2011	1929724	35197	1964921	Report on PI1
2012	1598898	38003	1636901	Report on PI1
2013	1704598	41397	1745995	Report on PI1
2014	1721398	35496	1756894	Report on PI1
2015	1696846	47770	1744616	Report on PI1
2016	1774673	24840	1799513	Report on PI1
2017	1747454	23466	1770920	Report on PI1
2018	1727338	28653	1775991	Report on PI1
2019	1706793	28278	1734768	Report on PI1

Operator's comments :

Water usage is one of the global better world agendas.
 Site water KPI's are reduced n an annual basis in line with global goals.

Carl Rogers..... Date.....19/2/2020
 (authorised to sign as representative of the Operator)

Form Number: PI1

Reporting of Performance Indicators for the year Jan 1st 2019 to December 31st 2019

Annual Production/Treatment	
Production of beers and lagers	487655 tonnes

Environmental Performance Indicators

Parameter	Annual Average	Units
BOD	0.094	kg/tonne
COD	0.010	kg/tonne
Water use	3.55	m ³ /tonne
Energy use	499	kWh/tonne
Carbon dioxide	0.025	tonne/tonne
Waste	0.044	tonne/tonne

Trends in Environmental Performance						
Year	Parameter					
	BOD	COD	Water Use	Energy Use	CO ₂	Waste
	kg/tonne	kg/tonne	m ³ /tonne	kWh/tonne	tonne/tonne	tonne/tonne
2005	0.104	0.450	4.86	504	0.020*	0.074
2006	0.021	0.256	5.31	516	0.021*	0.029
2007	0.034	0.306	5.90	600	0.024	0.042
2008	0.058	0.378	5.67	596	0.019	0.043
2009	0.06	0.27	4.63	489	0.020	0.039
2010	0.08	0.33	5.58	493	0.095	0.056
2011	0.043	0.27	4.57	499	0.092	0.069
2012	0.029	0.22	4.07	508	0.092	0.070
2013	0.020	0.162	4.31	457	0.08	0.050
2014	0.0172	0.172	3.98	431	0.08	0.046
2015	0.050	0.27	3.81	425	0.076	0.043
2016	0.019	0.158	3.70	429	0.077	0.042
2017	.048	0.098	3.71	429	0.0253	0.049
2018	0.068	0.058	3.55	452	0.099	0.050
2019	0.094	0.010	3.55	499	0.025	0.044

Operator's comments :

SignedCarl Rogers.....
(authorised to sign as representative of the Operator)

Date.....19/02/2020.....

Form Number: MR1

Reporting of Mass Release for the year Jan 1st 2019 to December 31st 2019.

Mass Release Parameter	kg/annum
Ammonia (refrigerant)	0

Trends in Mass Release		
Year	Parameter	
	Ammonia (kg/annum)	
2005	1000	
2006	4000	
2007	1000	
2008	1000	
2009	1000	
2010	1000	
2011	0	
2012	1060	
2013	0	
2014	0	
2015	0	
2016	0	
2017	0	
2018	0	
2019	0	

Operator's comments :

SignedCarl Rogers.....
(authorised to sign as representative of the Operator)

Date.....19/02/2020.....