

Form Number: A1

Reporting of Emissions to Air for the period from 1st January 2020 to 31st December 2020

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A1	Oxides of nitrogen as NO ₂	220mg/m ³ ^[6]	198	BS EN 14792	15 th April 14.20-15.20	Mcerts MC 050056/00	8.1
A1	Carbon monoxide	None	1.4	BS EN 15068	15 th April 14.20-15.20	Mcerts MC 050056/00	1.0
A1	Oxygen	None	6.8	BS EN 14789	15 th April 14.20-15.20		0.2
A1	Temperature	None	-	-			
A2	Oxides of nitrogen as NO ₂	220mg/m ³ ^[6]	211	BS EN 14792	16 th April 11.39-12.39	Mcerts MC 050056/00	9.8
A2	Carbon monoxide	None	2.0	BS EN 15068	16 th April 11.39-12.39	Mcerts MC 050056/00	0.8
A2	Oxygen	None	3.4	BS EN 14789	16 th April 11.39-12.39		0.1
A2	Temperature	None	-	-			
A3	Oxides of nitrogen as NO ₂	220mg/m ³ ^[6]	110.2	BS EN 14792	6 th April 11.36-12.36	Mcerts MC 050056/00	5.1
A3	Carbon monoxide	None	2.4	BS EN 15068	6 th April 11.36-12.36	Mcerts MC 050056/00	0.8
A3	Oxygen	None	3.5	BS EN 14789	6 th April 11.36-12.36		0.1
A3	Temperature	None	-	-			
A4	Oxides of nitrogen as NO ₂	220mg/m ³ ^[6]	94.1	BS EN 14792	27 th March 10.44-11.44	Mcerts MC 050056/00	5.1
A4	Carbon monoxide	None	71.6	BS EN 15068	27 th March 10.44-11.44	Mcerts MC 050056/00	3.0
A4	Oxygen	None	10.3	BS EN 14789	27 th March 10.44-11.44		0.2
A4	Temperature	None	-	-			
A1	Oxides of nitrogen as NO ₂	220mg/m ³ ^[6]	155.7	BS EN 14792	9 th October 12.54-13.54	Mcerts MC 050056/00	7
A1	Carbon monoxide	None	4.9	BS EN 15068	9 th October 12.54-13.54	Mcerts MC 050056/00	1.1
A1	Oxygen	None	8.3	BS EN 14789	9 th October 12.54-13.54		0.2
A1	Temperature	None					
A2	Oxides of nitrogen as NO ₂	220mg/m ³ ^[6]	166.5	BS EN 14792	9 th October 12.54-13.54	Mcerts MC 050056/00	7.7
A2	Carbon monoxide	None	1.9	BS EN 15068	9 th October 12.54-13.54	Mcerts MC 050056/00	1
A2	Oxygen	None	6.5	BS EN 14789	9 th October 12.54-13.54		0.2
A2	Temperature	None	-	-			
A3	Oxides of nitrogen as NO ₂	220mg/m ³ ^[6]	100.4	BS EN 14792	15 th October 10.20-11.20	Mcerts MC 050056/00	6.2
A3	Carbon monoxide	None	6.8	BS EN 15068	15 th October 10.20-11.20	Mcerts MC 050056/00	0.9
A3	Oxygen	None	3.7	BS EN 14789	15 th October 10.20-11.20		0.2
A3	Temperature	None		-			
A4	Oxides of nitrogen as NO ₂	140mg/m ³ ^[6]	86.2	BS EN 14792	15 th October 10.20-11.20	Mcerts MC 050056/00	4.6
A4	Carbon monoxide	None	16.2	BS EN 15068	15 th October 10.20-11.20	Mcerts MC 050056/00	1.3
A4	Oxygen	None	7.6	BS EN 14789	15 th October 10.20-11.20		0.2
A4	Temperature	None	-				
A5	Oxides of nitrogen as NO ₂	350mg/m ³ ^[7]	Removed				
A5	Carbon monoxide	500mg/m ³ ^[7]					
A5	Oxygen	None					
A5	Temperature	None					
A6	Oxides of nitrogen as NO ₂	350mg/m ³ ^[7]					
A6	Carbon monoxide	500mg/m ³ ^[7]					
A6	Oxygen	None					
A6	Temperature	None					
A5	Oxides of nitrogen as NO ₂	350mg/m ³ ^[7]					
A5	Carbon monoxide	500mg/m ³ ^[7]					
A5	Oxygen	None					
A5	Temperature	None					
A6	Oxides of nitrogen as NO ₂	350mg/m ³ ^[7]	Removed				
A6	Carbon monoxide	500mg/m ³ ^[7]					
A6	Oxygen	None					
A6	Temperature	None					

Form Number: A1

[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.}*
[6] Corrected to 273K, 101.3kPa, 5% oxygen, dry
[7] Corrected to 273K, 101.3kPa, 15% oxygen, dry

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

Date.....29/01/2021.....

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 2020 to 31st December 2020

Emission Point	Substance / Parameter	Emission		Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/certification ^[4]	Uncertainty ^[5]
		Limit Value	Result ^[1]				
A8	Oxides of nitrogen as NO2	500	308	BS EN 14792	14 th February 2020 12.37-13.37	Mcerts MC 050056/00	11.7
	Carbon monoxide	650	488	BS EN 15058	14 th February 2020 10.02-11.02	Mcerts MC 050056/00	18.1
	Sulphur Dioxide	80	0.44	BS EN 14791	14 th February 2020 10.02-11.02	Mcerts MC 050056/00	.0.04
	Oxides of nitrogen as NO2	500	286	BS EN 14792	1st May 2020 10:13-11.13	Mcerts MC 050056/00	11.3
	Carbon monoxide	650	492	BS EN 15058	1st May 2020 10:13-11.13	Mcerts MC 050056/00	18.3
	Sulphur Dioxide	80	0.87	BS EN 14791	1st May 2020 10:13-11.13	Mcerts MC 050056/00	4.5
	Oxides of nitrogen as NO2	500	109	BS EN 14792	17 th July 2020 12:16-13:16	Mcerts MC 050056/00	5.6
	Carbon monoxide	650	564	BS EN 15058	17 th July 2020 11:12-12:12	Mcerts MC 050056/00	23.5
	Sulphur Dioxide	80	1.36	BS EN 14791	17 th July 2020 11:12-12:12	Mcerts MC 050056/00	0.11
	Oxides of nitrogen as NO2	500	261	BS EN 14792	13 th November 2020 09.15-10.15	Mcerts MC 050056/00	10.1
	Carbon monoxide	650	576	BS EN 15058	13 th November 2020 11.20-12.20	Mcerts MC 050056/00	21.8
	Sulphur Dioxide	80	21.9	BS EN 14791	13 th November 2020 11.20-12.20	Mcerts MC 050056/00	1.2

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.....29/01/2021...

Permit Number: EPR/BX7282IS
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 2020 to 31st December 2020

Energy Source	Energy Usage	
	Quantity	Energy generated/m³ biogas (MWh/m³)
Electricity generation	2008 MWh	0.001
Heat generated	2639 MWh	0.002
TOTAL		

Operator's comments :

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

Date.....29/1/2021.....

Form Number: R1

Reporting of Waste Disposal and Recovery for the year Jan 1st 2020 to December 31st 2020

Waste Description	Disposal Route	Tonnes	Recovery Tonnes
1) Hazardous Wastes			
Named haz. Waste	Biffa Waste Management	1.10	1.10
Other hazardous wastes			
Total hazardous waste			
2) Non-Hazardous Wastes			
Named non-haz. Waste	Biffa Waste Management and N-virocycle	17654.20	17654.20
Other non-hazardous wastes			
Total non-hazardous waste			
TOTAL WASTE		17654.20	17653.10

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
2020	17654.20	17654.20	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.....29/1/2021.....

Form Number: WU1

Reporting of Water Usage for the year Jan 1st 2020 to December 31st 2020

Water Source	Usage (m³)	Specific Usage (m³/t)
Spring water	1731995	3.4623
Mains water	28909	0.0538
TOTAL WATER USAGE	1758904	3.5161

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
2020	1731995	26909	1758904	Report on PI1

Operator's comments :

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

Carl Rogers..... Date.....29/1/2021
(authorised to sign as representative of the Operator)

Form Number: E1

Reporting of Energy Usage for the year Jan 1st 2020 to December 31st 2020

Energy Source	Energy Usage		CO ₂ Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity *	41721	100131	17898
Natural Gas	109483	109483	26280
Gas Oil	0	0	
TOTAL	151204	209614	44178

* 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
2005	229412	43030	Report on PI1
2006	227217	42470	Report on PI1
2007	234066	43253	Report on PI1
2008	218651	40094	Report on PI1
2009	206460	38506	Report on PI1
2010	222367	42261	Report on PI1
2011	214616	39697	Report on PI1
2012	198037	35880	Report on PI1
2013	185342	33131	Report on PI1
2014	190552	34119	Report on PI1
2015	194611	35095	Report on PI1
2016	205947	37036	Report on PI1
2017	222122	35677	Report on PI1
2018	223409	39868	Report on PI1
2019	203644	29863	Report on PI1
2020	209614	44178	Report on PI1

Operator's comments :

The site is heavily focussed on better world targets including electricity and heat.
Greater focus during 2020 on implementation of Corona brand.

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

Date.....29/1/2021.....

Reporting of Performance Indicators for the year Jan 1st 2020 to December 31st 2020

Annual Production/Treatment	
Production of beers and lagers	500.246 tonnes

[illegible]

Date.....29/01/2021.....

Form Number: MR1

Reporting of Mass Release for the year Jan 1st 2020 to December 31st 2020.

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	
2020	0	

Operator's comments :

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

Date.....29/01/2021.....