

Permit Number: EA/EPR/BW9999IG/V003 Operator: Kronospan Ltd

Facility: Chirk Particle Board Factory Form Number: Water1 / 040209

# Reporting of emissions to water (other than to sewer) and land for the period from 01/10/2018 to 31/12/2018

Emission Point	Substance / Parameter	Emission Limit Value	Result <sup>(1)</sup>	Test Method	Sample Date	Uncertainty
W1	BOD	9.5 mg/l	8.3 mg/l	As Permit	19/10/2018	0.011
W1	Suspended Solids	100mg/l	100 mg/l	As Permit	23/10/2018	0.208
W1	pH	6 – 9	6.12 – 8.78	As Permit	06/10/2018 – 23/12/2018	0.004
W1	Ammonia	5 mg/l	4.98 mg/l	As Permit	01/11/2018 & 05/11/2018	0.006
W1 W1	Oil and Grease	15mg/l	14.5 mg/l	As Permit	10/10/2018	0.007
W1	Formaldehyde	2 mg/l	1.99 mg/l	As Permit	02/11/2018 & 04/11/2018	0.003
W1	Discharge Volume	N/A	88,210 m <sup>3</sup>	As Permit	N/A	N/A

(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.

Signed  C. Sarker Date 30/01/19  
(Authorised to sign as representative of Operator)

Corrections have been made as per condition 3.1.4

Permit Number: EA/EPR/BW99999/GN003 Operator: Kronospan Ltd

Facility: Chirk Particle Board Factory Form Number: FPET1 / 040209

# Reporting of emissions from the formaldehyde plant effluent tank for the period from 01/10/2018 to 31/12/2018

Emission Point	Substance / Parameter	Emission Limit Value	Result <sup>(1)</sup>	Test Method	Sample Date	Uncertainty
E1	pH	6 – 9	NO DISCHARGE FROM THE EFFLUENT TANK HAS OCCURRED BETWEEN THE REPORTING PERIOD 01/10/2018-31/12/2018			
E1	Oil and Grease	15mg/l				
E1	Formaldehyde	1mg/l				
E1	Discharge Volume	N/A				

(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.

Signed  C. BARKER Date 30/01/19  
(Authorised to sign as representative of Operator)

Corrections have been made as per condition 3.1

Permit Number: EA/EPR/BW9999IG/V003 Operator: Kronospan Ltd  
Facility: Chirk Particle Board Factory Form Number: Performance1 / 040209

Reporting of other performance indicators for the year 2018

Parameter	Units
Total BOD emission to water (other than sewer) from point W1 (kg)	2,716
Total Methanol received into the storage tanks (tonnes)	34,651
Total VOC's released from points A5 and A6 (tonnes)	4.55

Operator's comments :

Signed  C. SARKER  
(Authorised to sign as representative of Operator)

Date...30/01/19.....

Permit Number: EA/EPR/BW9999IG/V003 Operator: Kronospan Ltd


Facility: Chirk Particle Board Insulation Form Number: WaterUsage1 / 040209

### Reporting of Water Usage for the year 2018

Water Source	Usage (m <sup>3</sup> /year)	Specific Usage (m <sup>3</sup> /unit output)
Mains water	180,179	
Site borehole	102,732	
Canal abstraction	396,835	
TOTAL WATER USAGE	679,746	

Operator's comments :

(The water usage is for the whole installation not just the part regulated by the Environment Agency)

Signed  C. Sackel  
(authorised to sign as representative of Operator)

Date: 30/01/19



Permit Number: EA/EPR/BW99999IG/V003 Operator: Kronospan Ltd  
 Facility: Chirk Particle Board Factory Form Number: Energy1 / 040209

Reporting of Energy Usage for the year 2018

Energy Source	Energy Usage		Primary Energy (MWh)	Specific Usage (MWh/unit output)
	Quantity (MWh)			
Site electricity	227,412		591,271	
Formaldehyde Plant Electricity	7,011		18,229	
TOTAL	227,412		591,271	

\* Conversion factor for delivered electricity to primary energy = 2.6

Operator's comments :

Signed ..... C. Barker ..... Date 30/01/19 .....  
 (Authorised to sign as representative of Operator)

Permit Number: **EPR/BW9999IG/V007**

Operator: **Kronospan Limited**

Facility: **Chirk Particleboard Factory**

Form Number: **Air 1**

Date : **30/01/2019**

**Reporting of emissions to air for the period**

**A16-A18: 2018 A19-A25: 01/10/2018 to 31/12/2018**

Emission Point	Substance / Parameter	Emission Limit Value	Result 1	Sample Date and Time	Result 2	Sample Date and Time	Result 3	Sample Date and Time
A1	Formaldehyde	5 mg/m <sup>3</sup>						
A5	Formaldehyde	5 mg/m <sup>3</sup>						
A5	Total VOCs	50 mg/m <sup>3</sup>						
A5	Particulates	20 mg/m <sup>3</sup>						
A6	Formaldehyde	5 mg/m <sup>3</sup>						
A6	Total VOCs	50 mg/m <sup>3</sup>						
A6	Particulates	20 mg/m <sup>3</sup>						
A16	Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	90 mg/Nm <sup>3</sup>	136.0 mg/m <sup>3</sup>	25/01/2019	144 mg/m <sup>3</sup>	25/01/2019	146 mg/m <sup>3</sup>	25/01/2019
	Carbon monoxide	No limit set	0 mg/m <sup>3</sup>	25/01/2019	2.5 mg/m <sup>3</sup>	25/01/2019	2.5 mg/m <sup>3</sup>	25/01/2019
A17	Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	200 mg/Nm <sup>3</sup>	103 mg/m <sup>3</sup>	25/01/2019	144 mg/m <sup>3</sup>	25/01/2019	168 mg/m <sup>3</sup>	25/01/2019
	Carbon monoxide	No limit set	9.9 mg/m <sup>3</sup>	25/01/2019	8.6 mg/m <sup>3</sup>	25/01/2019	12.3 mg/m <sup>3</sup>	25/01/2019
A18	Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	200 mg/Nm <sup>3</sup>	105 mg/m <sup>3</sup>	25/01/2019	138 mg/m <sup>3</sup>	25/01/2019	174 mg/m <sup>3</sup>	25/01/2019
	Carbon monoxide	No limit set	8.6 mg/m <sup>3</sup>	25/01/2019	9.9 mg/m <sup>3</sup>	25/01/2019	16.0 mg/m <sup>3</sup>	25/01/2019
A19	Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	390 mg/Nm <sup>3</sup>	155 mg/m <sup>3</sup>	24/10/2018 11:31-12:01	149 mg/m <sup>3</sup>	24/10/2018 12:02-12:32	140 mg/m <sup>3</sup>	24/10/2018 12:33-13:03
	Carbon monoxide	No limit set	22.0 mg/m <sup>3</sup>	24/10/2018 11:31-12:01	23.0 mg/m <sup>3</sup>	24/10/2018 12:02-12:32	20.8 mg/m <sup>3</sup>	24/10/2018 12:33-13:03



Emission Point	Substance / Parameter	Emission Limit Value	Result 1	Sample Date and Time	Result 2	Sample Date and Time	Result 3	Sample Date and Time
A20	Oxides of nitrogen (NO and NO <sub>2</sub> ) expressed as NO <sub>2</sub>	390 mg/Nm <sup>3</sup>						
	Carbon monoxide	No limit set						
A21	Oxides of nitrogen (NO and NO <sub>2</sub> ) expressed as NO <sub>2</sub>	280 mg/Nm <sup>3</sup>	198 mg/m <sup>3</sup>	18/10/2018 08:00-08:30	199 mg/m <sup>3</sup>	18/10/2018 08:30-09:00	199 mg/m <sup>3</sup>	18/10/2018 09:00-09:30
	Carbon monoxide	No limit set	313 mg/m <sup>3</sup>	18/10/2018 08:00-08:30	304 mg/m <sup>3</sup>	18/10/2018 08:30-09:00	295 mg/m <sup>3</sup>	18/10/2018 09:00-09:30
A22	Oxides of nitrogen (NO and NO <sub>2</sub> ) expressed as NO <sub>2</sub>	280 mg/Nm <sup>3</sup>	275 mg/m <sup>3</sup>	21/11/2018 11:12-11:41	280 mg/m <sup>3</sup>	21/11/2018 11:42-12:11	284 mg/m <sup>3</sup>	21/11/2018 12:16-12:45
	Carbon monoxide	No limit set	220 mg/m <sup>3</sup>	21/11/2018 11:12-11:41	219 mg/m <sup>3</sup>	21/11/2018 11:42-12:11	219 mg/m <sup>3</sup>	21/11/2018 12:16-12:45
A23	Oxides of nitrogen (NO and NO <sub>2</sub> ) expressed as NO <sub>2</sub>	280 mg/Nm <sup>3</sup>	276 mg/m <sup>3</sup>	21/11/2018 13:47-14:16	278 mg/m <sup>3</sup>	21/11/2018 14:17-14:46	283 mg/m <sup>3</sup>	21/11/2018 14:47-15:16
	Carbon monoxide	No limit set	255 mg/m <sup>3</sup>	21/11/2018 13:47-14:16	258 mg/m <sup>3</sup>	21/11/2018 14:17-14:46	274 mg/m <sup>3</sup>	21/11/2018 14:47-15:16
A24	Oxides of nitrogen (NO and NO <sub>2</sub> ) expressed as NO <sub>2</sub>	280 mg/Nm <sup>3</sup>						
	Carbon monoxide	No limit set						
A25	Oxides of nitrogen (NO and NO <sub>2</sub> ) expressed as NO <sub>2</sub>	280 mg/Nm <sup>3</sup>						
	Carbon monoxide	No limit set						

Note: A1-A6 annual result reported in Q1. A16-A18 were scheduled for servicing & emission testing in December 2018, however due to supplier issues this was delayed until after the Christmas period. A20 was offline during the testing period. A24-A25 are currently not installed.

Signed  ..... C. SARKIS .....  
(Authorised to sign as representative of Operator)

Date....30/01/19.....

Corrections have been made as per condition 3.1.4