

**Sims Group UK Limited
Northside, South Dock
Alexandra Dock
Newport**

EPR/KP3195FW_EAWML30264

Environmental Performance Report 2019

Condition 4.2.2 of EPR/KP3195FW requires the periodic reporting of environmental performance as follows;

- a) A review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data.

Samples of compressor oil, metals, plastic, polyurethane foam and emissions to air are taken in accordance with permit requirements. Results obtained during 2019 are presented in Appendix 1.

Review of data versus permit limits.

CFC results for all samples taken of compressor oil and polyurethane foam were well below the permit limits.

Foam content of metal and plastic samples were all less than the permit limit.

CFC content for the sample of foam taken in May 2019 for plant 1 was slightly elevated. An investigation was undertaken and no operational issues were identified, hence it is possible that this result was erroneous.

Sims commenced analysis of Pentane and Cyclopentane blowing agent within foam samples (in addition to CFCs) in November 2019. The November result was elevated, hence the laboratory retested the sample and the results were significantly lower.

Emissions to air: Plant 2 results were compliant with the permit limit. Emission results for plant 1 were elevated in January, February, April and May 2019. Investigations were undertaken to determine the cause of the elevations. No operational issues have been identified, however maintenance was subsequently undertaken on the cryo-condensation equipment and the online gas sampling unit was replaced for new. Additional samples were taken during July in order to monitor further, and subsequent samples were within permit limits.

End of Report

Appendix 1

Compressor Oil Analysis Results	
CFC Limit Value <0.9% w/w (9000 mg/kg)	
Date	Result
29/01/2019	0.085% w/w
22/02/2019	0.1% w/w
25/03/2019	0.12% w/w
29/04/2019	0.032% w/w
29/05/2019	Insufficient volume for sampling
27/06/2019	0.035% w/w
29/07/2019	Insufficient volume for sampling
30/08/2019	0.016% w/w
25/09/2019	0.023% w/w
29/10/2019	0.085% w/w
28/11/2019	0.047% w/w
23/12/2019	0.031% w/w

Metal Analysis Results Plant 1	
Foam Limit Value 0.5% w/w	
Date	Result
29/01/2019	<0.5% w/w
22/02/2019	<0.5% w/w
25/03/2019	Plant not operational
29/04/2019	<0.5% w/w
29/05/2019	<0.5% w/w
27/06/2019	Plant not operational

29/07/2019	Plant not operational
30/08/2019	Plant not operational
25/09/2019	Plant not operational
29/10/2019	<0.5% w/w
28/11/2019	<0.5% w/w
23/12/2019	<0.5% w/w

Metal Analysis Results Plant 2	
Foam Limit Value 0.5% w/w	
Date	Result
29/01/2019	<0.5% w/w
22/02/2019	<0.5% w/w
25/03/2019	<0.5% w/w
29/04/2019	Plant not operational
29/05/2019	Plant not operational
27/06/2019	<0.5% w/w
29/07/2019	<0.5% w/w
30/08/2019	<0.5% w/w
25/09/2019	<0.5% w/w
29/10/2019	<0.5% w/w
28/11/2019	<0.5% w/w
23/12/2019	<0.5% w/w

Plastic Analysis Results Plant 1	
Foam Limit Value 1.0% w/w	
Date	Result
29/01/2019	<1.0% w/w

22/02/2019	<1.0% w/w
25/03/2019	Plant not operational
29/04/2019	<1.0% w/w
29/05/2019	<1.0% w/w
27/06/2019	Plant not operational
29/07/2019	Plant not operational
30/08/2019	Plant not operational
25/09/2019	Plant not operational
29/10/2019	<1.0% w/w
28/11/2019	<1.0% w/w
23/12/2019	<1.0% w/w

Plastic Analysis Results Plant 2	
Foam Limit Value 1.0% w/w	
Date	Result
29/01/2019	<1.0% w/w
22/02/2019	<1.0% w/w
25/03/2019	<1.0% w/w
29/04/2019	Plant not operational
29/05/2019	Plant not operational
27/06/2019	<1.0% w/w
29/07/2019	<1.0% w/w
30/08/2019	<1.0% w/w
25/09/2019	<1.0% w/w
29/10/2019	<1.0% w/w
28/11/2019	<1.0% w/w
23/12/2019	<1.0% w/w

Foam Analysis Results Plant 1 Limit Value 0.2% w/w	
Date	Result
29/01/2019	0.0082% w/w
22/02/2019	0.0055% w/w
25/03/2019	Plant not operational
29/04/2019	0.0019% w/w
29/05/2019	0.2256% w/w
27/06/2019	Plant not operational
29/07/2019	Plant not operational
30/08/2019	Plant not operational
25/09/2019	Plant not operational
29/10/2019	0.01% w/w
28/11/2019	CFC only 0.06% w/w CFCs and pentane/ cyclopentane combined – 0.7% w/w Sample re-test: CFCs and pentane/ cyclopentane combined – 0.18% w/w
23/12/2019	CFC only 0.0058% w/w CFCs and pentane/ cyclopentane combined – 0.15% w/w

Foam Analysis Results Plant 2**Limit Value 0.2% w/w**

Date	Result
29/01/2019	0.014% w/w
22/02/2019	0.0021% w/w
25/03/2019	0.0061% w/w
29/04/2019	Plant not operational
29/05/2019	Plant not operational
27/06/2019	0.0028% w/w
29/07/2019	0.01% w/w
30/08/2019	<0.0010% w/w
25/09/2019	0.0012% w/w
29/10/2019	0.0096% w/w
28/11/2019	CFC only 0.01% w/w CFCs and pentane/ cyclopentane combined – 0.1% w/w
23/12/2019	CFC only 0.0084% w/w CFCs and pentane/ cyclopentane combined – 0.14% w/w

Emissions to air: Chlorofluorocarbons Analysis Results Plant 1**CFC Limit Values:****<100 units: 5g per hour****>100 units but <200 units: 10g per hour****>200 units but <300 units: 15g per hour****>300 units but <400 units: 20g per hour**

>400 units: 30g per hour	
Date	Result
29/01/2019	13.1g/hr
22/02/2019	5.7g/hr
25/03/2019	Plant not operational
29/04/2019	9.85g/hr
29/05/2019	9.45g/hr
27/06/2019	Plant not operational
29/07/2019	Plant not operational
30/08/2019	Plant not operational
25/09/2019	Plant not operational
29/10/2019	2.75g/hr
28/11/2019	2.25g/hr
23/12/2019	1.75g/hr

Emissions to air: Chlorofluorocarbons Analysis Results Plant 2	
CFC Limit Values:	
<100 units: 5g per hour	
>100 units but <200 units: 10g per hour	
>200 units but <300 units: 15g per hour	
>300 units but <400 units: 20g per hour	
>400 units: 30g per hour	
Date	Result
29/01/2019	Laboratory issue
22/02/2019	<0.5g/hr
25/03/2019	1g/hr
29/04/2019	Plant not operational

29/05/2019	Plant not operational
27/06/2019	2.3g/hr
29/07/2019	2.35g/hr
30/08/2019	0.5g/hr
25/09/2019	0.5g/hr
29/10/2019	1.45g/hr
28/11/2019	0.95g/hr
23/12/2019	0.8g/hr