

Permit Number: TP3535LH

Operator: ConvaTec Limited

Installation: Rhymney Alginate Fibre Plant

Form Number: Air1 / 16.10.2006

Reporting of emissions to air for the three month period from: 01 Oct 2019 – 31 Dec 2019

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
A1	Total Organic Carbon (TOC)	- ^[1]	Hourly averages over a 4-hour period	14.9 / 15.7 / 9.6 / 8.9	BS EN 12619:2013	15/01/2020 14:57-18:56*	+/- 0.51
A2	Total Organic Carbon (TOC)	- ^[1]	Hourly averages over a 4-hour period	74.7 / 80.9 / 90 / 39.8	BS EN 13526:2002	16/01/2020 9:11-13:10*	+/- 5.6
A3	Total Organic Carbon (TOC)	- ^[1]	Hourly averages over a 4-hour period	5.9 / 6.0 / 6.2 / 9.2	BS EN 13526:2002	15/01/2020 10:10-14:09*	+/- 0.43

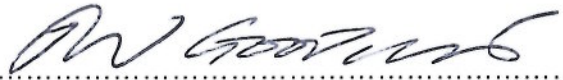
[1] Each hourly average to be reported.

[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.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

*Monitoring conducted in Jan 2020 – Agreed with David Griffiths of NRW, due to process being non-operational during usual monitoring period.

Signed 
(Authorised to sign as representative of Operator)

Date 21 FEB 2020

Permit Number: TP3535LH

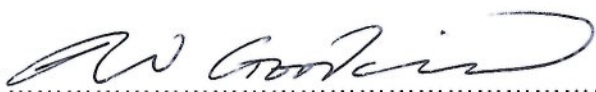
Operator: ConvaTec Limited

Installation: Rhymney Alginate Fibre Plant

Form Number: Annual 1 / 16.10.2006

Reporting of annual emissions for the period from 01 Jan 2019 – 31 Dec 2019

Emission Point	Substance / Parameter	Emission Limit Value	Result
A1, A2 and A3	IDA	25 tonnes	1.49
S1	IDA	0.6 tonnes	n/a

Signed 
(Authorised to sign as representative of Operator)

Date 21 FEB 2020

Permit Number: TP3535LH

Operator: ConvaTec Limited

Installation: Rhymney Alginate Fibre Plant

Form Number: Sewer 1 / 16.10.2006

Reporting of emissions to sewer for the three month period from: 01 Oct 2019 - 31 Dec 2019

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
S1	Flow (m ³ /day)	-	Average over 3 month period	8.48	BS3680 series	N/A	N/A
S1	Acetone (mg/l)	-	Spot sample	Acetone not used	SCA Blue book 170	N/A	N/A
S1	Dichloromethane	1.0 mg/l	Spot sample	Not a determinant on WW reports	BS EN ISO10301:1997	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.

[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 uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed 
(Authorised to sign as representative of Operator)

Date: 21 FEB 2020

Permit Reference Number: TP3535LH

Operator: Convatec Limited

Installation: Convatec Rhymney Hydrocel Plant

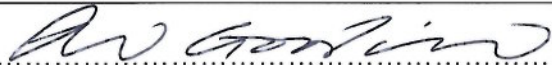
Form Number: PI1

Reporting of Performance Indicators for the year: 2019

Annual Production/Treatment	
Production of Alginate fibres	9.06 tonnes

Environmental Performance Indicators [EPI's]				
Parameter	Annual EPI	Units	Trends in Environmental Performance	
			Year	Parameter
Total IDA used	2.65	Tonnes/tonnes of alginate fibres		VOC released per tonne product (Kg/tonne)
Total IDA recovered	-	Tonnes		
Total IDA released	0.16	Tonnes/tonnes of alginate fibres	2007	1293 kg acetone
			2008	1318 kg acetone
			2009	1219 kg acetone
			2010	736 kg acetone
			2011	180 kg IDA
			2012	350
			2013	316
			2014	443
			2015	264
			2016	221
			2017	380
			2018	115
			2019	164

Operator's comments :

Signed 
(Authorised to sign as representative of the Operator)

Date 21 FEB 2020