

Table 1 – TVOCs

Data Recorded from A1 – Spine Line Drier
 Sample Period: 07:57 – 11:56 on the 25th November 2015

Volumetric Flowrate (Reference Conditions) = 1.03m³/sec *

TVOC (as carbon)*	mg/m ³	Kg/hr
07:57 – 08:56	13.08	0.049
08:57 – 09:56	20.79	0.077
09:57 – 10:56	24.54	0.091
10:57 – 11:56	36.55	0.136
Average		Emission Rate

* Reference Conditions (273K, 101.3 kPa, Wet Gas)

Table 2 – TVOCs

Data Recorded from A2 – Spine Line General LEV
 Sample Period: 08:16 – 12:15 on the 24th November 2015

Volumetric Flowrate (Reference Conditions) = 0.43m³/sec *

TVOC (as carbon)*	mg/m ³	Kg/hr
08:16 – 09:15	230.69	0.356
09:16 – 10:15	255.01	0.394
10:16 – 11:15	296.11	0.457
11:16 – 12:15	262.35	0.405
Average		Emission Rate

* Reference Conditions (273K, 101.3 kPa, Wet Gas)

Table 3 – TVOCs

Data Recorded from A3 – Spine Line Low Level Room Extraction
 Sample Period: 08:16 – 12:15 on the 24th November 2015

Volumetric Flowrate (Reference Conditions) = 0.96m³/sec *

	Average	Emission Rate
TVOC (as carbon)*	mg/m ³	kg/hr
08:16 – 09:15	99.40	0.345
09:16 – 10:15	122.56	0.426
10:16 – 11:15	142.76	0.496
11:16 – 12:15	153.06	0.532

* Reference Conditions (273K, 101.3 kPa, Wet Gas)

Table 4 – TVOCs

Data Recorded from A1 – Scrubber Exhaust
 Sample Period: 08:51 – 12:50 on the 25th November 2015

Volumetric Flowrate (Reference Conditions) = 6.02m³/sec *

	Average	Emission Rate
TVOC (as carbon)*	mg/m ³	kg/hr
08:51 – 09:50	179.63	3.894
09:51 – 10:50	163.43	3.543
10:51 – 11:50	175.13	3.797
11:51 – 12:50	182.94	3.966

* Reference Conditions (273K, 101.3 kPa, Wet Gas)

Permit Number: TP3535LH

Operator:

ConvaTec Limited

Installation: Rhymney Alginate Fibre Plant

Form Number:

Annual 1 / 16.10.2006 v2016

Reporting of annual emissions for the period from 01/01/15 to 31/12/15

Emission Point	Substance / Parameter	Emission Limit Value	Result
A1, A2 and A3	IDA	25 tonnes	2.38
S1	IDA	0.6 tonnes	n/a

Signed K. Richards
(Authorised to sign as representative of Operator)

Date 25 FEB 2016

Permit Number: TP3535LH Operator: ConvaTec Limited
 Installation: Rhymney Alginiate Fibre Plant Form Number: Sewer 1 / 16.10.2006 v2016

Reporting of emissions to sewer for the three month period from01OCT2015.....to.....31DEC201.....

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	26.8	BS3680 series	n/a	n/a
S1	Acetone (mg/l)	-	Spot sample	Acetone not used	SCA Blue book 170	-	-
S1	Dichloromethane	1.0 mg/l	Spot sample	Not a determinand on WW reports	BS EN ISO10301:1997	-	-

- [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 *K. Richards* Date..... *26 FEB 2016*
 (Authorised to sign as representative of Operator)

Permit Reference Number: TP3535LH

Operator: Convatec Limited

Installation: ConvaTec Rhymney Alginate Fibre Plant

Form Number: P11v2016

Reporting of Performance Indicators for the year2015.....

Annual Production/Treatment	
Production of Alginate fibres	9 tonnes

Environmental Performance Indicators [EPI's]			Trends in Environmental Performance	
Parameter	Annual EPI	Units	Year	Parameter
Total IDA used	3.53	Tonnes/tonnes of alginate fibres		VOC released per tonne product (Kg/tonne)
Total IDA recovered	-	Tonnes	2007	1293 kg acetone
Total IDA released	0.26	Tonnes/tonnes of alginate fibres	2008	1318 kg acetone
			2009	1219 kg acetone
			2010	736 kg acetone
			2011	180 kg IDA
			2012	350 kg IDA
			2013	316 kg IDA
			2014	443 kg IDA
			2015	264 kg IDA

Operator's comments : IDA Purchased = 28.97 T
IDA Used = 31.81 T
IDA Released = 2.38 T

Signed
(Authorised to sign as representative of the Operator)

Date: 25 FEB 2016