

Permit Reference Number: NP 3433 BC

Operator: ConvaTec Limited

Installation: ConvaTec Rhymney Hydrocel Plant

Form Number: A1 v2017

Reporting of Emissions to Air for the period from01OCT2016.....to.....31DEC2016.....

Emission Point	Substance / Parameter	Emission Limit Value	Result [1]	Test Method [2] [6]	Sample Date and Times [3]	Accreditation/ Certification [4]	Uncertainty [5]
A1	VOC ^a (continuous)	-	873 mgC/m ³	CEM FID	05:34 16OCT2016	MCERT	±2%
A1	VOC ^a (extractive)	-	435.86 mgC/m ³	BS EN 12619:2013	10:11-14:10 20DEC2016	UKAS/MCERTS	5%

Note a: Expressed as Total Carbon

- [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.
- [6] Monitoring methods and schedules to be agreed in writing by the Environment Agency on completion of Improvement Programme items IP6, IP7 and IP8, when the Environment Agency will also set Emission Limit Values for these Release Points by varying the Conditions of the Permit. The reference measurements used shall be agreed in writing by the Agency.

Signed *K. S. Richardson* Date 22 FEB 2017
(Authorised to sign as representative of the Operator)

Environmental Compliance: Limited

Comstock Limited	TP2433314 (Site Use, A1 - A3) & Hybrid Plant Scrubber, A0	Installation Name	Alghave Pilot Plant (Site Use, A1 - A3) & Hybrid Plant Scrubber, A0
Permit No	NP2433314 (Site Use, A1 - A3) & Hybrid Plant Scrubber, A0	Visit Details	Annual Compliance Survey
Variation No	NP2433314 (Site Use, A1 - A3) & Hybrid Plant Scrubber, A0	Survey Dates	14th & 20th December 2016
Report Ref	EP2016	Report Issue Date	10th January 2017

Emission Point Reference	Substance to be Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty %	Reference Conditions 273 K, 101.3 kPa	Date of Sampling	Start and End Times	Monitoring Method Reference	Accreditation for use of Method	Tick if non-conforming test (see Sections 2 & 5)	Operating Status
A1 Scrubber	Volumetric Flowrate	...	5.50	m ³ /sec	4	Stack Conditions	20/12/2016	09:17 - 10:01	BS EN 14691:1	UKAS / MCERTS		
	Volumetric Flowrate	...	5.05	m ³ /sec	5	Wet Gas						
	TVOC as Carbon	...	3,435.86	mgC/m ³	5			10:11 - 14:10	BS EN 12619:2013	UKAS / MCERTS		Normal

The volumetric flowrate shown above is that from the initial pilot traverse.
Any other flow measurements made during isokinetic sampling and/or repeat traverses are shown later in the tables section.

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Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
S1	pH	6-11	7.2	WAS 039	04NOV2016 9:00am	UKAS	±2.85 to ±1.39%
S1	COD	4000mg/l	323 mg/l	WAS 040	04NOV2016 9:00am	UKAS	±5.07 to ±2.36%
S1	Suspended solids	1000mg/l	4 mg/l	WAS 006	09DEC2016 9:00am	UKAS	±19.93%

[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. colorimetry.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring 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

Signed *K. S. Leach* Date: *22 FEB 2017*
(Authorised to sign as representative of the Operator)

Permit Reference Number: NP 3433 BC

Operator: ConvaTec Limited

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Form Number: SED1 v2017

Reporting of Emissions to Air for the period from01OCT2016.....to.....31DEC2016.....

Emission Point	Substance / Parameter	Emission Limit Value	Result [1]
All emissions (including fugitive, excluding solvent sent for recovery)	VOC	<5% of total solvent input	1.6% By mass balance

[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 *K. S. R. R. R.* Date 22 Feb 2017
(Authorised to sign as representative of the Operator)