

Permit Reference Number: NP 3433 BC

Operator: ConvaTec Limited

Installation: ConvaTec Rhymney Hydrocel Plant

Form Number: E1 v2015

Reporting of Energy Usage for the year2014.....

Energy Source	Energy Usage		Primary CO ₂ Produced (tonnes)
	Quantity	Primary Energy (MWh)	
	MWh		
Electricity *	3217	7721	1282
Gas	5560	5560	1056
TOTAL	8777	13281	2338

* Conversion factor for delivered electricity to primary energy = 2.4

Trends in Energy Usage			
Year	Parameter	Primary CO ₂ Produced (tonnes)	Primary CO ₂ per tonne product (tonnes/tonne)
2005	-	-	-
2006	7118	2504	21.6
2007	7401	2628	14.1
2008	8242	2859	16.8
2009	7578	2690	19.9
2010	7718	2723	19.7
2011	8201	2886	19.4
2012	9010	1566	10.17
2013	13516	2382	9.84
2014	13281	2338	9.39

Operator's comments :

Signed
(Authorised to sign as representative of the Operator)

Date
12 FEB 2015

Permit Reference Number: **NP 3433 BC**

Operator: **ConvaTec Limited**

Installation: **ConvaTec Rhymney Hydrocel Plant**

Form Number: **PI1 v2015**

Reporting of Performance Indicators for the year2014.....

Annual Production/Treatment			
Production of Hydrocel		173	tonnes
Percentage converted to Silver Hydrocel		36	%

Environmental Performance Indicators [EPI's]			Trends in Environmental Performance	
Parameter	Annual EPI	Units	Year	Parameter
VOC emission per tonne of product	382.52	Kg/tonne		VOC released per tonne product (Kg/tonne)
Waste produced per tonne of product	25900	Kg/tonne	2005	-
Energy use: primary carbon dioxide per tonne product	9390	Kg/tonne	2006	131.06
			2007	92.46
			2008	61.46
			2009	61.14
			2010	62.15
			2011	326.64
			2012	167.13
			2013	306.5
			2014	382.52

Operator's comments : Annual Production 2011 – 149T, 2012 – 154T, 2013 – 242T, 2014 – 249T

Signed
(Authorised to sign as representative of the Operator)

Date.....12 FEB 2015.....

Permit Reference Number: **NP 3433 BC**

Operator: **ConvaTec Limited**

Installation: **ConvaTec Rhymney Hydrocel Plant**

Form Number: **R1 v2015**

Reporting of Waste Disposal and Recovery for the year2014.....

Waste Description	Disposal		Recovery Tonnes
	Route	Tonnes	
Solvent/Water	Tanker	4088	2399
Trickling Filter Blowdown	Tanker	2155	-
Bundwater Removal	Tanker	149.4	-
Landfill Waste	Landfill	39.6	-
Recycled Waste	Recycled	17.2	17.2
1) Total hazardous waste		6243	2399
2) Total non-hazardous waste		206.2	17.2
TOTAL WASTE		6449.2	2416.2

Trends in Waste Disposal and Recovery			
Year	Parameter		
	Total hazardous waste disposed and recovered (tonnes)	Total waste disposed and recovered (tonnes)	Total Hazardous Waste per unit output (tonnes /tonne)
2005	-	-	-
2006	1393	1402	12
2007	2255	2272	12.6
2008	2129	2146	12.5
2009	1628	1641	12.06
2010	1424	1437	12.32
2011	1922	1944	12.9
2012	1750	1776	11.36
2013	2477	2496.8	10.24
2014	2399	2416.2	9.63

Operator's comments :

Signed
(Authorised to sign as representative of the Operator)

Date **12 FEB 2015**

Permit Reference Number: NP 3433 BC

Operator: ConvaTec Limited

Installation: ConvaTec Rhymney Hydrocel Plant

Form Number: WU1 v2015

Reporting of Water Usage for the year2014.....

Water Source	Usage (m ³)	Specific Usage (m ³ /tonne)
Mains water (potable)	32171	129.2
Non potable water	-	-
TOTAL WATER USAGE	32171	129.2

Trends in Water Usage		
Year	Parameter	
	Total Water usage (m ³)	Total Water Usage per unit output (m ³ /tonne)
2005	-	-
2006	11609	99.99
2007	10321	57.66
2008	9769	57.46
2009	9827	72.8
2010	7794	56.5
2011	12012	80.6
2012	13516	87.8
2013	28803	119.02
2014	32171	129.2

Operator's comments :

Signed
(Authorised to sign as representative of the Operator)

Date 12 FEB 2015