

Permit Reference Number: NP 3433 BC

Operator: ConvaTec Limited

Installation: ConvaTec Rhymney Hydrocel Plant

Form Number: R1 v2017

Reporting of Waste Disposal and Recovery for the year2016.....

Waste Description	Disposal		Recovery Tonnes
	Route	Tonnes	
Solvent/Water	Tanker	4892	2818
Trickling Filter Blowdown	Tanker	2101	-
Bundwater Removal	Tanker	122.5	-
Landfill Waste	Landfill	27.4	-
Recycled Waste	Recycled	17.1	17.1
1) Total hazardous waste		6993	2818
2) Total non-hazardous waste		167	17.1
TOTAL WASTE		7160	2835.1

Year	Trends in Waste Disposal and Recovery 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
2015	2345	2350.3	9.48
2016	2818	2835.1	9.36

Operator's comments :

V. Shaoirich

Signed

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(Authorised to sign as representative of the Operator)

Date 22 FEB 2017

Permit Reference Number: NP 3433 BC

Operator: ConvaTec Limited

Installation: ConvaTec Rhymney Hydrocel Plant

Form Number: WU1 v2017

Reporting of Water Usage for the year2016.....

Water Source	Usage (m ³)	Specific Usage (m ³ /tonne)
Mains water (potable)	25439	84.5
Non potable water	-	-
TOTAL WATER USAGE	25439	84.5

Year	Trends in Water Usage	
	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
2015	25008	100.8
2016	25439	84.5

Operator's comments :

Signed *V. S. R. R. R. R. R.*

Date *22 FEB 2017*

(Authorised to sign as representative of the Operator)

Permit Reference Number: NP 3433 BC

Operator: ConvaTec Limited

Installation: ConvaTec Rhymney Hydrocel Plant

Form Number: E1 v2017

Reporting of Energy Usage for the year2016.....

Energy Source	Energy Usage		Primary CO ₂ Produced (tonnes)
	Quantity	Primary Energy (MWh)	
	MWh		
Electricity *	3387	8129	1355
Gas	5686	5686	1080
TOTAL	9073	13815	2435

Year	Trends in Energy Usage		
	Primary Energy usage (MWh)	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
2015	13349	2349	9.43
2016	13815	2435	8.09

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments :

Signed *K. R. R. R. R.*

Date: 22 FEB 2017

(Authorised to sign as representative of the Operator)

Permit Reference Number: NP 3433 BC

Operator: ConvaTec Limited

Installation: ConvaTec Rhymney Hydrocel Plant

Form Number: PI1 v2017

Reporting of Performance Indicators for the year2016.....

Annual Production/Treatment			
Production of Hydrocel		225	tonnes
Percentage converted to Silver Hydrocel		32.9	%

Environmental Performance Indicators [EPI's]			
Parameter	Annual		Trends in Environmental Performance Parameter
	EPI	Units	
VOC emission per tonne of product	468.05	Kg/tonne	VOC released per tonne product (Kg/tonne)
Waste produced per tonne of product	26052	Kg/tonne	
Energy use: primary carbon dioxide per tonne product	9472	Kg/tonne	
			2005
			2006
			2007
			2008
			2009
			2010
			2011
			2012
			2013
			2014
			2015
			2016

Operator's comments : Annual Production 2011 – 149T, 2012 – 154T, 2013 – 242T, 2014 – 249T, 2015 – 248T, 2016 – 312T

Signed
(Authorised to sign as representative of the Operator)

Date: 22 FEB 2017