

Permit Reference Number: NP 3433 BC

Operator: Convatec Limited

Installation: Convatec Rhymney Hydrocel Plant

Form Number: R1

Reporting of Waste Disposal and Recovery for the year: 2022

Waste Description	Disposal		Recovery
	Route	Tonnes	Tonnes
Solvent/Water	Tanker	5642	2982
Trickling filter blowdown	Tanker	0	
Bund water removal	Tanker	25	25
Landfill Waste	Containers	15.2	
Recycled Waste	Skip	41.39	41.39
Energy from waste	Skip	66.83	
1) Total hazardous waste		5671.74	2982
2) Total non-hazardous waste		118.88	52.06
TOTAL WASTE		5790.62	3034.06

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	12.1
2010	1424	1437	12.3
2011	1922	1944	12.9
2012	1750	1776	11.4
2013	2477	2497	10.2
2014	2399	2416	9.63
2015	2345	2350	9.48
2016	2818	2835	9.36
2017	3248	3282	9.28
2018	2988	3033	9.03
2019	2760	2850	9.14
2020	2422	2578	8.90
2021	2719	2788	8.50
2022	2982	3034	8.74

Operator's comments :

Signed 
(Authorised to sign as representative of the Operator)

Date 25/01/2023

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Form Number: WU1

Reporting of Water Usage for the year: 2022

Water Source	Usage (m ³)	Specific Usage (m ³ /tonne)
Mains water (potable)	11563	33.89
Non potable water	0	0
TOTAL WATER USAGE	11563	33.89

Trends in Water Usage		
Year	Parameter	
	Total Water usage (m ³)	Total Water Usage per unit output (m ³ /tonne)
2005		
2006	11609	100
2007	10321	57.7
2008	9769	57.5
2009	9827	72.8
2010	7794	56.5
2011	12012	80.6
2012	13516	87.8
2013	28803	119
2014	32171	129.2
2015	25008	100.8
2016	25439	84.5
2017	34323	98.1
2018	31788	94.6
2019	22036	72.9
2020	11182	41.11
2021	10655	33.29
2022	11563	33.89

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Form Number: E1

Reporting of Energy Usage for the year: 2022

Energy Source	Energy Usage		Primary CO ₂ Produced (tonnes)
	Quantity(MWh)	Primary Energy (MWh)	
Electricity *	3577	8584.8	3691.46
Gas	7001	7001	1330.19
TOTAL	10578	15585.8	5021.65

Trends in Energy Usage			
Year	Parameter		
	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	10.2
2013	13516	2382	9.84
2014	13281	2338	9.4
2015	13349	2349	9.4
2016	13815	2435	8.1
2017	14946	4964	14.2
2018	14673	4893	14.6
2019	15136	4887	16.2
2020	14497	4705	17.3
2021	14561	4754	14.85
2022	15586	5022	14.72

* Conversion factor for delivered electricity to primary energy = 2.4

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Form Number: PI1

Reporting of Performance Indicators for the year: 2022

Annual Production/Treatment	
Production of Hydrocel	231
Percentage converted to Silver Hydrocel	48

Environmental Performance Indicators [EPI's]				
Parameter	Annual EPI	Units	Trends in Environmental Performance	
			Year	Parameter
VOC emission per tonne of product	0.076	Kg/tonne		VOC released per tonne product (Kg/tonne)
Waste produced per tonne of product	16981	Kg/tonne		
Energy use: primary carbon dioxide per tonne product	14720	Kg/tonne		
			2007	92.5
			2008	61.5
			2009	61.1
			2010	62.1
			2011	326.6
			2012	167.1
			2013	306.5
			2014	382.5
			2015	380.8
			2016	468.0
			2017	174.9
			2018	178.2
			2019	0.25
			2020	0.92
			2021	0.08
			2022	0.08

Operator's comments : Annual U1 production (tonnes):- 2011 – 149, 2012 -154, 2013 – 242, 2014 – 249, 2015 – 248, 2016 – 312, 2017 – 350, 2018 – 336 2019 – 302, 2020 – 272, 2021 -320 2022 - 341

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