

Permit Reference Number : BP1772IZ

Operator : Poeton (Cardiff) Ltd

Installation : Poeton (Cardiff) Ltd

Form Number : S1

Reporting of Emissions to Sewer for the period from: July 2022 to December 2022

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
S1	pH	Minimum 6 Maximum 11	1.3 9.5 6.0 10.9	Welsh Water Welsh Water Internal Internal	14/11/2022 10.47 12/12/2022 11.49 07/10/2022 28/09/2022		
S1	Cadmium and its compounds	0.3 mg/l	0.575* 0.517	Welsh Water Internal	14/11/2022 10.47 07/07/2022 09.00		
S1	Mercury and its compounds	0.005 mg/l	/	/	/		
S1	Total flow		There is no upper limit to consent flow				
S1	Free Cyanide	1.0 mg/l	0.159 0.5	Welsh Water Internal	19/08/2022 09.17 27/07/2022 09.00		
S1	Chromium and its compounds	2.0 mg/l	3.1* 2.246	Welsh Water Internal	14/11/2022 10.47 29/09/2022 09.00		

[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. The following uncertainties are quoted on a different basis (basis as stated)

Signed
(authorised to sign as representative of the Operator)

Date 30/01/2023

*Welsh Water Cd & Cr result not submitted on S5 as per email to Dale Padfield 30/11/2022 and response received 05/12/2022.

Permit Reference Number : BP1772IZ

Operator : Poeton (Cardiff) Ltd

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Form Number : E1

Reporting of Energy Usage for the year: 2022

Energy Source	Energy Usage		
	Quantity	Primary Energy (MWh)	CO ₂ Produced (tonnes)
Electricity *	MWh	2968.3	504.8
Gas	tonnes	323.7	55.0
TOTAL	-	3292.0	559.8

* Conversion factor for delivered electricity to primary energy = x 2.4

* Conversion factor for Primary to CO₂ = ÷ 5.88

Trends in Energy Usage		
Year	Parameter	
	Primary Energy usage	CO ₂ produced
2015	2968.4	549.1
2016	3844.6	649.1
2017	3642.5	619.5
2018	3867.4	657.7
2019	4242.6	721.5
2020	3095.2	526.3
2021	3162.1	537.7
2022	3292.0	559.8

Operator's comments :

Signed
(authorised to sign as representative of the Operator)

Date. 30/01/2023

Permit Reference Number : BP1772IZ

Operator : Poeton (Cardiff) Ltd

Installation : Poeton (Cardiff) Ltd

Form Number : R1

Reporting of Waste Disposal and Recovery for the year: 2022

Waste Description	Disposal Route	Tonnes	Recovery Tonnes
(1) Non-Filter Cake Waste		48.2	
(2) Filter Cake	None		
Total hazardous waste		48.2	
TOTAL WASTE	-	48.2	

Trends in Waste Disposal and Recovery			
Year	Parameter		
	Waste 1 HAZ	Waste 2 Recycle	Total Hazardous Waste (Tonnes)
2017	27	5	27
2018	49	13.3	49
2019	11	17.5	11
2020	26.7	22.8	26.7
2021	28.9	14.7	28.9
2022	48.2	17.0	48.2

Operator's comments :

Signed
(authorised to sign as representative of the Operator)

Date.30/01/2023.....

Permit Reference Number : BP1772IZ

Operator : Poeton (Cardiff) Ltd

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Form Number : WU1

Reporting of Water Usage for the year: 2022

Water Source	Usage (m ³)
Welsh Water Main	41443
TOTAL WATER USAGE	

Trends in Water Usage			
Year	Parameter		
	Named Water source	Total Water usage (M ³)	Water per unit output (/MR)
2017	WW	24225	3.41
2018	WW	23285	3.27
2019	WW	50124	7.96
2020	WW	33637	5.39
2021	WW	31676	5.00
2022	WW	41443	6.47

Operator's comments :

Signed
(authorised to sign as representative of the Operator)

Date 30/01/2023

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Installation : Poeton (Cardiff) Ltd

Form Number : MR1

Mass Release		
Parameter	Limit	kg
Cadmium and its compounds	10.4 Kg	2.3
Mercury and its compounds	0.106 Kg	0.000002

Trends in Mass Release			
Year	Parameter		
	Mercury	Cadmium	
2016	0.005mg	1.43	
2017	0.005mg	0.25	
2018	0.002mg	0.64	
2019	0.002mg	0.24	
2020	0.002mg	1.88	
2021	0.002mg	0.75	
2022	0.002mg	2.30	

Operator's comments :

Signed *J. Hamling*
(authorised to sign as representative of the Operator)

Date 30/01/2023