

Permit Number: PP3238LX

Operator: Bakelite Synthetics UK Limited

Facility: Barry Thermosets Plant

Form Number: Water1 / 13/02/2023

Reporting of emissions to water (other than to sewer) and land for the period from 28/06/2024 to 26/09/2024

Emission Point	Substance / Parameter	Emission		Result ^[1]	Average result ^[6]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period					
W1	Maximum volume of effluent discharged under dry conditions determined by no significant rainfall over the previous 48 hours on the Barry site.	6800 m ³ /day	Instantaneous	2710	391		04/07/2024 11/07/2024 18/07/2024 25/07/2024 01/08/2024 08/08/2024 15/08/2024 22/08/2024 29/08/2024 05/09/2024 12/09/2024 19/09/2024 26/09/2024	
	Maximum volume of effluent discharged	15,900 m ³ /day	Instantaneous	2710	391		As above	
	Flow	0.19 m ³ /s	Instantaneous	0.0694	0.00453		As above	
	Monohydric phenol	10 mg/l	24-hour flow proportional sample	4.96	0.7	BS6068-2.12 1990 ISO6439:1990	As above	0.831
	Total suspended solids	150 mg/l	24-hour flow proportional sample	192	46.8	BS EN 872 2005 /BS6068- 2.54 2005	As above	28.0
	Chemical oxygen demand	1000 mg/l	24-hour flow proportional sample	449	125	BS ISO 15705- 2002/BS6068- 2.80 2002	As above	56.9
	Methanol	50 mg/l	24-hour flow proportional sample	0	0	BS EN ISO 15680 2003	As above	0
	Free formaldehyde	10 mg/l	24-hour flow proportional sample	0.48	0.1	BS 2942 App D	As above	0.09
	Styrene ^[5]	No limit set	24-hour flow proportional sample	n/a	n/a			
	pH	Minimum 6, maximum 9	Instantaneous	8.3	7.7	BS6068-2.50	As above	0.226

Emission Point	Substance / Parameter	Emission		Result ^[1]	Average result ^[6]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period					
	Monohydric phenol	10950 kg/year	Annual mass release	n/a	n/a			
	Methanol	43800 kg/year	Annual mass release	n/a	n/a			
	Free formaldehyde	10950 kg/year	Annual mass release	n/a	n/a			
E1	Total suspended solids	No limit set	24-hour flow proportional sample	983	144	BS EN 872 2005 /BS6068- 2.54 2005	As above	144
	Free formaldehyde	No limit set	24-hour flow proportional sample	0.65	0.1	BS 2942 App D	As above	0.127
	Monohydric phenol	No limit set	24-hour flow proportional sample	11.3	2.5	BS6068-2.12 1990 ISO6439:1990	As above	2.13
	Methanol	No limit set	24-hour flow proportional sample	0	0	BS EN ISO 15680 2003	As above	0
	Chemical oxygen demand	No limit set	24-hour flow proportional sample	524	160	BS ISO 15705-2002/BS6068-2.80 2002	As above	68.8

- [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 Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example 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 uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
- [5] Monitoring of styrene required when styrene is in use at the installation
- [6] An average of the samples taken over the reporting period (every 3 months)

Signed
 (Authorised to sign as representative of Operator)

Date.....17th October... 2024.....