

## IRISH WATER RESPONSE

Irish Water  
Colvill House  
24/26 Talbot Street  
Dublin 1

**Name of Facility:** Bausch Health Ireland Limited

**Reg. No:** P1112-01

**Location Address:** Bausch & Lomb, Unit 424/425, Waterford Industrial Park, Co. Waterford, X91 V383

<b>Recommendation subject to the conditions outlined below.</b>	Yes
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Indicate either “Yes” or “No” to the request to include the condition(s) below in the licence as follows:

<b>GENERAL CONSENT CONDITIONS</b>		<b>Condition to be Included (Yes/No)</b>
1. Other than the trade effluent authorised to be discharged under this licence, the licensee shall at no time discharge or cause or permit to discharge into sewer trade effluent or any other matter unless authorised in writing by Irish Water.		Yes
2. No specified emission from the installation shall exceed the emission limit values set out in Schedule B: Emission Limits, of this licence. There shall be no other emissions of environmental significance.		Yes
3. Monitoring and analysis equipment shall be installed, operated and maintained as necessary, so that all monitoring, accurately reflects the emission/discharge.		Yes
4. The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as set out below and as in accordance with <i>Schedule C: Control &amp; Monitoring</i> , of this licence. (i) Sampling and analysis shall be undertaken by competent staff in accordance with documented operating procedures. (ii) Such procedures shall be subject to a programme of Analytical Quality Control using appropriate control standards with evaluation of test responses. (iii) Where any analysis is sub-contracted it shall be outsourced to a competent laboratory.		Yes
5. The licensee shall ensure that any trade effluent generated from canteen activities shall pass through appropriate grease removal equipment prior to discharge to sewer.		Yes
6. The licensee shall <b>maintain and implement</b> a detailed programme for maintenance of all plant and equipment based on the instructions issued by the manufacturer/supplier or installer of the equipment or as otherwise approved in writing by IW.		Yes
7. A summary report of volumes of trade effluent and other matter discharged to the sewer along with monitoring and analysis data as specified in <i>Schedule B: Emission Limits to Sewer</i> and <i>Schedule C: Control &amp; Monitoring</i> , of this licence shall be forwarded to both Irish Water and the Local Authority in a manner and timeframe as may be specified by Irish Water.		Yes
8. The licensee shall <b>prepare, maintain and implement</b> (text highlighted in black		No

<p>bold for new licence only) / <b>maintain and implement</b> (text highlighted in green bold for reviews) a Schedule of Environmental Objectives and Targets. The Schedule shall, as a minimum, provide for a review of all operations and processes, including an evaluation of practicable options, for energy and resource efficiency, the use of cleaner technology, cleaner production and the prevention, reduction and minimisation of waste and shall include waste reduction targets, reduction and diversion of storm water runoff to sewer. The Schedule shall include time frames for the achievement of set targets and shall address a five-year period as a minimum. The schedule shall be reviewed annually and submitted to Irish Water as requested.</p>	
<p>9. The licensee shall pay to Irish Water such sum as may be determined from time to time, having regard to the variations in the cost of providing drainage and the variation in effluent reception and treatment costs. Payment is to be made on demand from Irish Water.</p>	Yes
<p>10. Silt Traps and Oil Separators The Licensee shall, within six months of date of grant of this licence, install and maintain silt traps and oil separators at the Facility:</p> <ul style="list-style-type: none"> <li>(i) Silt traps to ensure that all storm water discharges, other than from roofs, from the facility pass through a silt trap in advance of discharge;</li> <li>(ii) An oil separator on the storm water discharge from yard areas. The separator shall be a Class I Class II full retention/by-pass separator. &lt;&lt;EPA to select as appropriate&gt;&gt;</li> <li>(iii) The silt traps and separator shall be in accordance with I.S. EN-858-2: 2003 (separator systems for light liquids).</li> </ul>	Yes
<p>11. The licensee shall conclude an end user agreement with Irish Water.</p>	Yes
<p>12. In the event of any incident which relates to discharges to sewer having taken place, the licensee shall notify Irish Water and the Local Authority, in the manner prescribed by Irish Water, as soon as practicable after such an incident.</p>	Yes
<p>13. No alteration to, or reconstruction in respect of, the activity, or any part thereof, that would, or is likely to, result in</p> <ul style="list-style-type: none"> <li>(i) a material change or increase in: <ul style="list-style-type: none"> <li>▪ the nature or quantity of any emission;</li> <li>▪ the abatement/treatment or recovery systems;</li> <li>▪ the range of processes to be carried out;</li> <li>▪ the fuels, raw materials, intermediates, products or wastes generated, or</li> </ul> </li> <li>(ii) any changes in: <ul style="list-style-type: none"> <li>▪ site management, infrastructure or control with adverse environmental significance;</li> </ul> </li> </ul> <p>shall be carried out or commenced without prior notice to, and without the approval of, the Agency <b>and/or Irish Water as appropriate.</b></p>	Yes

<p><b>ADDITIONAL GENERAL CONSENT CONDITIONS</b> <b>In respect of discharges or emissions to sewers, in accordance with Section 99E</b> <b>of the Environmental Protection Agency Act 1992, as amended.</b> <i>(Specify, if required)</i></p>

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**Limit Values for Process Effluent to Sewer*****Schedule B: Emission Limits***Emission Point Reference No.: **SE1**Emission to **(sewer description)**: Sewer located at Waterford Industrial Estate

Volume of Trade effluent emitted:      Maximum in any one day:      500 m<sup>3</sup>  
                                                                  Maximum in any hour:      27.5 m<sup>3</sup>

Parameter	Emission Limit Values	
pH	6-9 pH Units	
Temperature	30°C	
	Concentration (24 Hr. Composite Sample (mg/l))	Daily Load (kg/day)
BOD, 5 days with Inhibition (Carbonaceous BOD)	60	30
COD - Cr	50	20
Suspended Solids	60	30
Fats, Oils & Greases	50	30
Ammonia – Total (as N)	4	0.84
Sulphate	1000	500
Chloride	1200	600

Emission Point Reference No.: **SE2**

Emission to **(sewer description)**: Sewer located at Waterford Industrial Estate

Volume of Trade effluent emitted:      Maximum in any one day:      500 m<sup>3</sup>  
                                                                  Maximum in any hour:      17.5 m<sup>3</sup>

Parameter	Emission Limit Values	
pH	6-9 pH Units	
Temperature	30°C	
	Concentration (24 Hr. Composite Sample (mg/l))	Daily Load (kg/day)
BOD, 5 days with Inhibition (Carbonaceous BOD)	60	72
COD - Cr	100	100
Suspended Solids	60	72
Fats, Oils & Greases	50	20
Ammonia – Total (as N)	4	1.6
Sulphate	1000	500
Chloride	800	400

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Emission Point Reference No.: **SE3**

Emission to **(sewer description)**: Sewer located at Waterford Industrial Estate

Volume of Trade effluent emitted:      Maximum in any one day:      100 m<sup>3</sup>  
                                                                  Maximum in any hour:      5 m<sup>3</sup>

Parameter	Emission Limit Values	
pH	6-9 pH Units	
Temperature	30°C	
	Concentration (24 Hr. Composite Sample (mg/l))	Daily Load (kg/day)
BOD, 5 days with Inhibition (Carbonaceous BOD)	600	30
COD - Cr	1000	50
Suspended Solids	60	6
Fats, Oils & Greases	50	5
Ammonia – Total (as N)	4	0.4
Sulphate	1000	100
Chloride	1000	100

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**Frequency of Monitoring Process Effluent to Sewer*****Schedule C***

Emission Point Reference No.: SE1

Parameter	Monitoring Frequency (Note 1)	Analysis Method/Technique
Flow Rate	Continuous	On-line flow meter with recorder
pH	Continuous	pH electrode/meter & recorder
Temperature	Continuous	On-line temperature sensor with recorder
COD - Cr	Monthly	Standard Method
BOD, 5 days with Inhibition (Carbonaceous BOD)	Quarterly	Standard Method
Suspended Solids	Quarterly	Standard Method
Fats, Oils & Greases	Quarterly	Standard Method
Ammonia – Total (as N)	Quarterly	Standard Method
Sulphate	Quarterly	Standard Method
Chloride	Quarterly	Standard Method
Full Metal Suite	Annually	Standard Method
Total Organic Solvents	Annually	Standard Method

**Note 1:** All samples excluding those for pH and temperature shall be collected on a 24 hour flow proportional composite sampling basis.

Emission Point Reference No.: SE2

Parameter	Monitoring Frequency (Note 1)	Analysis Method/Technique
Flow Rate	Continuous	On-line flow meter with recorder
pH	Continuous	pH electrode/meter & recorder
Temperature	Continuous	On-line temperature sensor with recorder
COD - Cr	Monthly	Standard Method
BOD, 5 days with Inhibition (Carbonaceous BOD)	Quarterly	Standard Method
Suspended Solids	Quarterly	Standard Method
Fats, Oils & Greases	Quarterly	Standard Method
Ammonia – Total (as N)	Quarterly	Standard Method
Sulphate	Quarterly	Standard Method
Chloride	Quarterly	Standard Method
Full Metal Suite	Annually	Standard Method
Total Organic Solvents	Annually	Standard Method

**Note 1: All samples excluding those for pH and temperature shall be collected on a 24 hour flow proportional composite sampling basis.**



Emission Point Reference No.: SE3

Parameter	Monitoring Frequency (Note 1)	Analysis Method/Technique
Flow Rate	Continuous	On-line flow meter with recorder
pH	Continuous	pH electrode/meter & recorder
Temperature	Continuous	On-line temperature sensor with recorder
COD - Cr	Monthly	Standard Method
BOD, 5 days with Inhibition (Carbonaceous BOD)	Quarterly	Standard Method
Suspended Solids	Quarterly	Standard Method
Fats, Oils & Greases	Quarterly	Standard Method
Ammonia – Total (as N)	Quarterly	Standard Method
Sulphate	Quarterly	Standard Method
Chloride	Quarterly	Standard Method
Full Metal Suite	Annually	Standard Method
Total Organic Solvents	Annually	Standard Method

**Note 1: All samples excluding those for pH and temperature shall be collected on a 24 hour flow proportional composite sampling basis.**

## Control of Emissions to Sewer

### Description of treatment:

Control Parameter	Monitoring	Key Equipment
pH	Continuous Monitoring	pH electrode/meter and recorder. Neutralisation through addition of hydrochloric acid or caustic
Temperature	Continuous Monitoring	On-line temperature sensor with recorder
Flow Rate	Continuous Monitoring	On-line flow meter with recorder
Fats, Oils & Grease removal	FOG content effluent as a result of kitchen/canteen activities	Grease removal equipment

### Signed on behalf of

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Date

27/7/2020

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