

IRISH WATER RESPONSE

Irish Water
Colvill House
24/26 Talbot Street
Dublin 1

Name of Facility: Arran Chemical Company Limited **Reg. No:** P0110-03

Location Address: Arran Chemical Company Limited, Unit 1 Monksland Industrial Park,
Roscommon, N37DN24

Consent granted subject to the consent conditions outlined below.	Yes
Consent granted without conditions.	N/A
Consent refused ^{Note 1}	N/A

Indicate either "Yes" or "No" to the request to include the condition(s) below in the licence as follows:

GENERAL CONSENT CONDITIONS	Condition to be Included (Yes/No)
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. Monitoring and analysis equipment shall be installed, operated and maintained as necessary, so that all monitoring, accurately reflects the emission/discharge.	Yes
3. 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 & 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
4. 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
5. The licensee shall maintain and implement 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
6. 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 & 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
7. The licensee shall prepare, maintain and implement (text highlighted in black bold for new licence only) / maintain and implement (text highlighted in green bold for reviews) a Schedule of Environmental Objectives and Targets. The Schedule	Yes

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.	
8. 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.	Yes
9. 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: (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; (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. <<EPA to select as appropriate>> (iii) The silt traps and separator shall be in accordance with I.S. EN-858-2: 2003 (separator systems for light liquids).	No
10. The licensee shall conclude an end user agreement with Irish Water.	Yes
11. 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.	Yes
12. No alteration to, or reconstruction in respect of, the activity, or any part thereof, that would, or is likely to, result in (i) a material change or increase in: <ul style="list-style-type: none"> ▪ the nature or quantity of any emission; ▪ the abatement/treatment or recovery systems; ▪ the range of processes to be carried out; ▪ the fuels, raw materials, intermediates, products or wastes generated, or (ii) any changes in: <ul style="list-style-type: none"> ▪ site management, infrastructure or control with adverse environmental significance; shall be carried out or commenced without prior notice to, and without the approval of, the Agency and/or Irish Water as appropriate.	Yes

<p>ADDITIONAL GENERAL CONSENT CONDITIONS In respect of discharges or emissions to sewers, in accordance with Section 99E of the Environmental Protection Agency Act 1992, as amended. <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)**: Irish Water Sewer located at Monksland Industrial Park

Volume of Trade effluent emitted: Maximum in any one day: 100 m³
Average in any one day (On monthly basis) 80 m³
Maximum in any hour: 5.5 m³

Parameter	Emission Limit Values	
pH	7-11 pH Units	
Temperature	35°C	
	Concentration (24 Hr. Composite Sample (mg/l))	Daily Load (kg/day)
BOD, 5 days with inhibition (Carbonaceous BOD)	5,000	275
COD - Cr	10,000	670
Suspended Solids	500	30
Sulphate	1,500	90
Sulphite	200	12
Chloride	3750	225
Phenols (Total)	15	0.9
Total Phosphorus (as P)	10	0.6
Total Dissolved Solids	7500	450
Anionic Surfactants / Detergents (MBAs)	10	0.6
Total Heavy Metals	5	0.3

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	Daily (when discharged) ^{Note 2}	Temperature probe
BOD, 5 days with inhibition (Carbonaceous BOD)	Monthly ^{Note 1}	Standard Method
COD - Cr	Weekly ^{Note 1}	Standard Method
BOD/COD Ratio	Monthly	-
Dissolved Oxygen	Daily (when discharged) ^{Note 2}	Dissolved Oxygen meter
Suspended Solids	Monthly ^{Note 1}	Gravimetric
Sulphate (as SO ₄)	Monthly ^{Note 1}	Standard Method
Sulphite (as SO ₃)	Quarterly ^{Note 1}	Standard Method
Chloride	Monthly ^{Note 1}	Standard Method
Phenols (as C ₆ H ₅ OH)	Quarterly ^{Note 1}	Standard Method
Total Dissolved Solids	Monthly ^{Note 1}	Standard Method
Total Phosphorus (as P)	Quarterly ^{Note 1}	Standard Method
ortho-phosphate (as P)	Quarterly ^{Note 1}	Standard Method
Full Metal Suite	Quarterly ^{Note 1}	Atomic Absorption/ICP
Anionic Surfactants / Detergents (MBAs)	Quarterly ^{Note 1}	Standard Method
Organic Solvents ^{Note 3}	Quarterly ^{Note 1}	Gas Chromatography
Respirometry	Annually ^{Note 1}	Standard Method
Toxicity ^{Note 4}	As Required	Standard Method

Note 1: All samples shall be collected on a 24 hour flow proportional composite sampling basis.

Note 2: Sample to be obtained by discrete sampling.

Note 3: Screening for priority pollutant list substances (such as US EPA volatile and/or semi-volatile compounds). This analysis shall include those organic solvents in use in the process, which are likely through normal process operations to be diverted to the waste water streams.

Note 4: The number of toxic units (Tu) = 100/x hour EC/LC₅₀ in percentage vol/vol so that higher Tu values reflect greater levels of toxicity. For test regimes where species death is not easily detected, immobilisation is considered equivalent to death.

Control of Emissions to Sewer**Description of treatment: pH adjustment in on-site effluent balancing tank**

Control Parameter	Monitoring	Key Equipment
Effluent balancing/flow	Continuous	Agitator, On-line flow meter with recorder
Chemical Oxygen Demand	Weekly	Standard Laboratory Equipment
Dissolved Oxygen	Daily	Dissolved oxygen meter
pH of effluent	Continuous	pH meter, recorder and alarm ^{Note 2}
Treated effluent sampling	Daily	Flow proportionate composite sampler

Note 1: The licensee shall maintain appropriate access to standby and/or spares to ensure the operation of the abatement system.

Note 2: Alarm system design subject to agreement by the Agency.

Signed on behalf of

Andrew Cartwright

Date 20/10/2020

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