

## Dorota Richards

**From:** Ronan Connolly [REDACTED]  
**Sent:** 17 May 2017 12:35  
**To:** Dorota Richards  
**Cc:** Gavin Clabby  
**Subject:** Analog Devices B.V. P0224-03 - IW S99E Response\_Consent \_ 170516  
**Attachments:** Analog Devices B.V. P0224-03 - IW S99E Response\_Consent \_ 170516.pdf

Dear Ms Richards,

Please find attached Irish Water's consent to discharge to sewer associated with the Analog Devices B.V. - P0224-03 -application for an IPC licence review.

If you have any further queries, please do not hesitate in contacting me.

A hard copy shall be issued by post today.

Kind Regards,

Ronan

Ronan Connolly  
Environmental Policy and Licensing Support Officer

**Uisce Éireann**

Teach Colvill, 24-26 Sráid Thalbóid, Baile Átha Cliath 1, Éire

**Irish Water**

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[www.water.ie](http://www.water.ie)

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24-26 Talbot Street, Dublin 1.

Thank you for your attention.

Tá an fhaisnéis á seachadadh dírithe ar an duine nó ar an eintiteas chuig a bhfuil sí seolta amháin agus féadfar ábhar faoi rún, faoi phribhléid nó ábhar atá íogair ó thaobh tráchtála de a bheith mar chuid de. Tá aon athsheachadadh nó scaipeadh den fhaisnéis, aon athbhreithniú ar nó aon úsáid eile a bhaint as, nó aon ghníomh a dhéantar ag brath ar an bhfaisnéis seo ag daoine nó ag eintitis nach dóibh siúd an fhaisnéis seo, toirimiscthe agus féadfar é a bheith neamhdhleathach. Níl Líonraí Uisce Éireann faoi dhliteanas maidir le seachadadh iomlán agus ceart na faisnéise sa chumarsáid seo nó maidir le haon mhoill a bhaineann léi. Ní ghlacann Líonraí Uisce Éireann le haon dliteanas faoi ghnímh nó faoi iarmhairtí bunaithe ar úsáid thoirimiscthe na faisnéise seo. Níl Líonraí Uisce Éireann faoi dhliteanas maidir le seachadadh ceart agus iomlán na faisnéise sa chumarsáid seo nó maidir le haon mhoill a bhaineann léi. Má fuair tú an teachtaireacht seo in earráid, más é do thoil é, déan teagmháil leis an seoltóir agus scríos an t-ábhar ó gach aon ríomhaire. Féadfar ríomhphost a bheith soghabhálach i leith truaillithe, idircheaptha agus i leith leasaithe neamhúdairithe. Ní ghlacann Líonraí Uisce Éireann le haon fhreagracht as athruithe nó as idircheapadh a rinneadh ar an ríomhphost seo i ndiaidh é a sheoladh nó as aon dochar do chórais na bhfaighteoirí déanta ag an teachtaireacht seo nó ag a ceangaltáin. Más é do thoil é, tabhair faoi deara chomh maith go bhféadfar monatóireacht a dhéanamh ar theachtairreachtaí chuig nó ó Líonraí Uisce Éireann chun comhlíonadh le polasaithe agus le caighdeáin Líonraí Uisce Éireann a chinntiú agus chun ár ngnó a chosaint. Fochuideachta gníomhaíochta de chuid Ervia is ea Uisce Éireann atá faoi theorainn scaireanna, de bhun fhorálacha an tAcht um Sheirbhísí Uisce 2013, a bhfuil a bpríomh ionad gnó ag 24-26 Teach Colvill, Sráid na Talbóide, BÁC 1.

Go raibh maith agat as d'aird a thabhairt.

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**Reg No: P0224-03**

**16 May 2017**

**Dear Ms Richards,**

**I refer to your correspondence dated 27<sup>th</sup> March 2017 relating to an application from Analog Devices B.V., Lurraga Road, Raheen Industrial Estate, Limerick, V94RT99 for an IPC licence review.**

**Please find attached Irish Water's consent to discharge to sewer subject to the consent conditions attached.**

**If you have any further query please do not hesitate to contact us.**

**Yours sincerely**

  
**Michael O'Leary,  
Authorised Signatory**

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## **IRISH WATER RESPONSE**

Irish Water  
Colvill House  
24/26 Talbot Street  
Dublin 1

Name of Facility: Analog Devices B.V.

Reg. No: P0224-03

Location Address: Lurraga Road, Raheen Industrial Estate, Limerick; V94RT99

Consent granted subject to the consent conditions outlined below.	Yes
Consent granted without conditions.	N/A
Consent refused.	N/A

### **CONSENT CONDITIONS TO BE INCLUDED**

1. The Licensee shall permit authorised persons, of the Agency and Irish Water, to inspect, examine and test, at all reasonable times, any works and apparatus installed in connection with the trade effluent and to take samples of the trade effluent.
2. The Licensee shall at no time discharge or permit the discharge into the sewer of any liquid matter or thing which;
  - I. would constitute a danger to sewer maintenance personnel working in the wastewater network or wastewater treatment plant;
  - II. cannot be appropriately treated at the downstream wastewater treatment plant;
  - III. would be liable to render wastewater sludge generated at the downstream wastewater treatment plant unsuitable for disposal to agricultural lands or other approved disposal routes;
  - IV. would be liable to cause corrosion to sewer pipes, penstock and sewer fittings or the general integrity of the sewer;
  - V. would be liable to cause the liberation of by-products detrimental to either the wastewater network or wastewater treatment plant;
  - VI. would be liable to cause impairment of the receiving environment and ecosystem to which the wastewater treatment plant discharges;
  - VII. would be liable to give rise to flammable or explosive vapours in the receiving wastewater network;
  - VIII. would be liable to cause the release of nuisance odours from the wastewater network either directly or indirectly following mixing with other wastewater within the network; or,
  - IX. would be liable to cause a blockage in the wastewater network or set, or congeal, at average sewer temperature.

3. The licensee shall notify Irish Water, the Local Authority and the Agency in advance of any changes which may result in a change in the nature, characteristics or volume of trade effluent or other matter discharged to sewer.
4. Monitoring and analyses equipment shall be operated and maintained as necessary so that monitoring accurately reflects the discharge to sewer.
5. The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence.
6. The Licensee shall ensure that any trade effluent generated as a result of kitchen/canteen activities with the potential to contain fats, oils and grease (FOG) pass through grease removal equipment before entry to the public sewer.
7. The Licensee shall maintain on-site trade effluent treatment systems so as to meet the requirements set out in <i>Schedule B: Emission Limits to Sewer</i> and in any case, at least in accordance with the manufacturer's specifications or industry best practice guidelines or as per additional maintenance or servicing requirements requested in writing by Irish Water based on operational experience.
8. A summary report of volumes of effluent 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 specified by Irish Water.
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, treatment, monitoring, sampling and analysis costs. Payment to be made on demand.

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# Limit Values for Process Effluent to Sewer

## Schedule B: Emission Limits

Emission Point Reference No.: SE1

Location: Cloghkeating Avenue 155316E, 152904N

Volume of Trade effluent to be emitted: Maximum in any one day:

2,000 m<sup>3</sup>

Maximum in any hour:

120 m<sup>3</sup>

Parameter	Emission Limit Values	
pH	6-9 pH Units	
Temperature	35°C	
Toxicity	10 TU	
	Concentration (mg/l) <sup>Note 1</sup>	Daily Load (kg/day)
COD	400	100
Total Suspended Solids	200	50
Sulphate	1,000	1,000
Fats Oils & Grease (FOG)	15	15
Fluorides	50	50
Ammonia (as N)	20	20
Total Phosphate (as P)	20	20
Arsenic	0.05	-
Total Heavy Metals	3	-
Cadmium	0.005	-
Chromium	0.1	-
Copper	0.1	-
Lead	0.05	-
Zinc	0.3	-
Nickel	0.1	-
Mercury	0.001	-
Silver	2	-

### Schedule C

#### C.1 Frequency of Monitoring Process Effluent to Sewer

Parameter	Monitoring Frequency (Note 1 & 2)	Analysis Method/Technique
Flow to sewer	Continuous	On-line continuous Flow meter with recorder
Temperature	Daily	On-line temperature probe with recorder
pH	Continuous	On-line continuous pH Probe and recorder
COD	Biweekly (twice per week)	Standard Method
Total Suspended Solids	Monthly	Standard Method
Sulphate	Daily	Standard Method
Chloride	Monthly	Standard Method
FOG	Biannually	Standard Method
Fluoride	Weekly	Standard Method
Sodium	Monthly	Standard Method
Total Ammonia (as N)	Monthly	Standard Method
Total Phosphate (as P)	Monthly	Standard Method
Arsenic	Biannually	Standard Method
Total Heavy Metals	Weekly	Standard Method
Cadmium	Biannually	Standard Method
Chromium	Biannually	Standard Method
Copper	Biannually	Standard Method
Lead	Biannually	Standard Method
Zinc	Biannually	Standard Method
Nickel	Biannually	Standard Method
Mercury	Biannually	Standard Method
Silver	Biannually	Standard Method
Detergents (as MBAS)	Biannually	Standard Method
Respirometry	Annually	Standard Method
Toxicity	As may be required	Standard Method
Priority Substances	As may be required	Standard Method

**Note 1.**

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

**Note 2.**

Sampling shall take place on alternate week days on a rolling basis to ensure representative samples are obtained for site operations which may vary across the working week.



## C.2. Control of Emissions to Sewer

Emission Point Reference no.: SE1  
Description of treatment: Flow Balancing

Control Parameter	Monitoring	Key Equipment
Flow Balancing	Effluent (Continuous)	Balance tank prior to onsite effluent treatment

Emission Point Reference no.: SE1  
Description of treatment: Neutralisation

Control Parameter	Monitoring	Key Equipment
pH	pH of trade effluent (Continuous)	pH probe & meter pH Controller Dosing pumps for hydrochloric acid and sodium hydroxide Transfer pumps

Emission Point Reference no.: SE1

Description of treatment: Removal of Fats, Oil and Grease generated as a result of kitchen/canteen activities

Control Parameter	Monitoring	Key Equipment
Fats, Oil & Grease Removal	FOG content in trade effluent as a result of kitchen/canteen activities	Grease Removal Equipment

Note 1: Grease removal equipment employed shall meet the following specifications:  
- Passive grease separators must comply with the requirements of I.S. EN 1825-Parts 1 & 2  
- Grease removal units must comply with the requirements of the US Plumbing and Drainage Institute (PDI) G101 Guidelines.

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