

Headquarters
P.O. Box 3000
Johnstown Castle Estate
County Wexford
Ireland

WASTE WATER DISCHARGE LICENCE TECHNICAL AMENDMENT B

Licence Register Number:	D0049-01
Licensee:	Irish Water
Agglomeration:	Ballincollig and Environs



Reasons for the Decision

The purpose of this Technical Amendment is to bring the licence into compliance with the *European Communities Environmental Objectives (Surface Waters) Regulations, 2009* (S.I. No. 272 of 2009).

The Environmental Protection Agency (the Agency) is satisfied, on the basis of the information available, that subject to compliance with the conditions of licence Reg. No. D0049-01 granted on the 13/11/2008 (and amended on 29/03/2010), as well as any amendments noted herein any discharge from the activity will comply with and not contravene any of the requirements of Regulation 6(3) of the *Waste Water Discharge (Authorisation) Regulations, 2007*, as amended.

A screening for Appropriate Assessment was undertaken to assess, in view of best scientific knowledge and the conservation objectives of the site, if the activity, individually or in combination with other plans or projects is likely to have a significant effect on a European Site(s). In this context, particular attention was paid to the European site(s) at the Cork Harbour SPA (site code 004030) and the Agency considered, for the reasons set out below, that the activity is not directly connected with or necessary to the management of the site as a European Site and that it can be excluded on the basis of objective scientific information, that the activity, individually or in combination with other plans or projects, will have a significant effect on a European site, and accordingly the Agency determined that an Appropriate Assessment of the activity is not required, for the following reasons: The proposed amendments will not result in a material change to the nature or volume of the discharge(s) from the agglomeration.

Technical Amendment

In pursuance of the powers conferred on it by Regulation 33(1)(c) of the *Waste Water Discharge (Authorisation) Regulations, 2007*, as amended, the Agency amends Licence Reg. No. D0049-01, granted to Irish Water, Colvill House, 24/26 Talbot Street, Dublin 1, by virtue of Section 17(4) of the Water Services (No. 2) Act 2013.

Henceforth, the licence shall be read in conjunction with Amendment A issued on 29th March 2010 and the amendments set out below.

This technical amendment is limited to the following Glossary of Terms, Conditions and Schedules of Licence Reg. No. D0049-01.

Amendments

Glossary of the Licence

Amend the Glossary terms as follows:

Daily	During all days when discharges are taking place; with at least one measurement/observation per day.
Maintain	Keep equipment, plant and infrastructure in a fit state, including such regular inspection, servicing, calibration and repair as may be necessary to perform its function.
Sample(s)	Unless the context of this licence indicates to the contrary, the term sample(s) shall include measurements taken by electronic instruments.
Standard method	A relevant CEN, ISO, National, or other internationally recognized test procedure such as detailed in the current edition of "Standard Methods for the Examination of Water and Wastewater" (published jointly by A.P.H.A. / A.W.W.A. / W.E.F.), a documented and validated in-house procedure based on the above sources that will ensure the provision of data of an equivalent scientific quality, or an alternative method as may be agreed with the Agency.

New Glossary terms will be inserted as follows:

cBOD	5 day Carbonaceous Biochemical Oxygen Demand (with nitrification suppression).
Competent Laboratory	A testing facility meeting the general management and technical requirements of EN ISO/IEC-17025 standard, or other equivalent standards accepted at international level and utilising methods of analysis, including laboratory, field, and on-line methods, which are validated and documented in accordance with the above standard(s) for the specific tests.
Environmental Pollution	Means, in relation to waste water discharges, the direct or indirect introduction, as a result of human activity, of waste water discharges, substances (including any explosive, liquid or gas) or polluting matter (including any poisonous or noxious matter) into waters which may endanger human health or harm the aquatic environment, and in particular— (a) create a risk to waters, sediment, plants or animals, (b) deleteriously interfere with the quality of aquatic ecosystems or terrestrial ecosystems directly depending on aquatic ecosystems including by— (i) rendering those or any other waters poisonous or injurious to fish, shellfish, spawning grounds or the food of any fish, or

	<p>(ii) impairing the usefulness of the bed and soil of any waters as spawning grounds or impairing their capacity to produce the food of fish or shellfish,</p> <p>(c) impair or interfere with amenities and other legitimate uses of the water, or</p> <p>(d) result in the water failing to meet any environmental quality standards prescribed in regulations for the purpose of giving effect to the requirements of any Directive relating to the quality or use of water for the time being in force.</p>
Priority Substances	Those substances or groups of substances, identified by the Commission in accordance with Article 16(2) of the Water Framework Directive and listed in Tables 11 and 12 of Schedule 6 of the European Communities Environmental Objectives (Surface Waters) Regulations, 2009 that have been prioritised for action by the setting of environmental quality standards at Community level.

Conditions of Licence

Delete Condition 1.1.2:

- 1.1.2 This licence shall be technically amended, as and when considered by the Agency, to ensure compliance with such environmental quality standard as may be prescribed for surface water classification of the receiving water body.

Amend Condition 1.3 in the licence, to read as follows:

- 1.3 The discharges to waters from the waste water works shall be restricted to those listed and described in *Schedule A: Discharges* of this licence and shall be as set out in the licence application or as modified under Condition 1.6 of this licence and subject to the conditions of this licence.

Amend Condition 2.1.1(iv) in the licence, to read as follows:

- 2.1.1(iv) For parameters Total Phosphorus and Total Nitrogen the annual mean of the samples shall not exceed the emission limit value. No individual result similarly calculated shall exceed the emission limit value by more than 20%.

Amend Condition 2.1.1 (ii), in the licence, to read as follows:

- 2.1.1(ii) For cBOD and COD, no more than the relevant number of samples specified in *Schedule B3: Interpretation of Discharge Monitoring Results* – Column 2, of this licence, shall exceed the concentration Emission Limit Value based on the number of samples taken as listed in *Schedule B3: Interpretation of Discharge Monitoring Results* – Column 1, of this licence. No individual concentration result similarly calculated shall exceed the emission limit value by more than 100%.

Amend Condition 2.1.1 (v) in the licence, to read as follows:

2.1.1(v) For parameters other than pH, cBOD, COD, Suspended Solids, Orthophosphate, Total Phosphorous and Total Nitrogen, eight out of ten consecutive composite results shall not exceed the emission limit value. No individual result similarly calculated shall exceed the emission limit value by more than 20%.

Amend Condition 2.2 in the licence, to read as follows:

2.2 Discrete Sampling

No cBOD, COD grab sample value shall exceed the emission limit value by more than 100% or Suspended Solids grab sample value shall exceed the emission limit value by more than 150%. For all other parameters, except pH and temperature, no grab sample value shall exceed the emission limit value by more than 20%.

Amend Condition 3 to include the following after Condition 3.5:

3.6 No discharge from the waste water works is permitted save under and in accordance with this licence.

Amend Condition 4.1.1 in the licence, to read as follows:

4.1.1 Analyses shall be undertaken by competent staff in accordance with documented operating procedures. Analysis for compliance purposes, including any sub-contracted analysis, shall be done by a competent laboratory.

Delete Condition 4.1.4:

4.1.4 Where any analysis is sub-contracted it shall be to a competent laboratory.

Amend Condition 4.2 in the licence, to read as follows:

4.2 The licensee shall ensure that:

- (i) Sampling and analysis for all parameters listed in the Schedules to this licence, and,
- (ii) Any reference measurement methods to calibrate automated measurement system

shall be carried out by an appropriate Standard Method.

Amend Condition 4 to include the following after Condition 4.17:

4.18 The licensee shall ensure that a person in charge or a nominated deputy shall be available to meet with an authorised person(s) of the Agency at all reasonable times and shall allow access to the waste water works or other premises that the Agency reasonably considers may contain information pertaining to a discharge from those works or other premises.

Delete Conditions 4.12:

- 4.12 A representative sample of effluent from the primary discharge point shall be screened for the presence of organic compounds and metals within twelve months of the date of grant of this licence. The list of parameters for analysis shall include, as a minimum, those organic compounds and metals identified as relevant having regard to the Water Policy Regulations 2003 and amendments (S.I. No. 722 of 2003 and amendments) and any other relevant legislation. Such screening shall be repeated at intervals as requested by the Agency thereafter.

Amend Condition 4.16 in the licence, to read as follows:

- 4.16 The licensee shall carry out monthly monitoring of the influent stream to the waste water treatment plant for cBOD, COD, Suspended Solids, Total Nitrogen and Total Phosphorus in order to measure the mass loadings and removal efficiencies within the treatment plant.

Amend Condition 4 to include the following after Condition 4.18:

- 4.19 Where such ambient monitoring results are available from any other statutory body, including the Agency, the licensee may submit those results in fulfillment of the requirements of *Schedule B.4 Ambient Monitoring* of this licence.

Amend Condition 5.5 in the licence, to read as follows:

- 5.5 The licensee shall complete the improvements, as set out in *Schedule C: Specified Improvement Programme* of this licence by the dates specified therein, and for improvements required as a result of this amendment, by 01/01/2015, in order to ensure compliance with the emission limit values, as set out in *Schedule A: Discharges* of this licence. The licensee shall report on the progress of completing the improvement works annually as part of the AER.

Replace Condition 6.1 to Condition 6.4 inclusive with the following new Condition 6.1:

- 6.1 The licensee shall notify the Agency's headquarters in Wexford, or to such other Agency office, as soon as practicable after the occurrence of any incident (as defined in this licence). This notification shall be in such format as specified in Guidance to Licensees/COA holders on the Notification, Management and Communication of Environmental Incidents issued by the Agency and as a minimum shall include the following: the date, time, location, details, nature, cause, extent and ranking of the incident, details on any vulnerable receptors, corrective action taken and plans to prevent a reoccurrence, and the steps taken to minimise any discharges and to carry out any necessary environmental cleanup. The following shall also be notified, as soon as practicable after the occurrence of any incident:
- Inland Fisheries Ireland/Department of Agriculture, Fisheries and Food in the case of discharges to receiving waters.
 - The Water Services Authority in the case of any incident where the discharges has been identified as upstream of a drinking water abstraction point.

Amend Condition 6.7 in the licence, to read as follows:

- 6.7 The licensee shall as a minimum keep the following documents at the headquarters of the licensee or such office as may be agreed by the Agency:
- (i) the licence application and all associated documentation;
 - (ii) the licence(s) relating to the discharge(s) to waters from the waste water works;
 - (iii) the previous year's AER;
 - (iv) records of all risk assessments, sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and guidance produced by the Agency;
 - (v) relevant correspondence with the Agency;
 - (vi) up to date drawings/plans showing the location of key process and environmental infrastructure, including monitoring locations and discharge points;
 - (vii) up to date operational procedures for all monitoring and control equipment necessary to give effect to this licence.

This documentation shall be available to the Agency for inspection at all reasonable times and shall be submitted to the Agency, as required, in such a format as may be requested, including electronic submittal of the information or a summary of such information.

Schedules of the licence

Amend Schedule A.1. Primary Waste Water Discharge as follows:

EDEN Code	Licence Code	Discharge Location			Monitoring Location			Receiving water name	WFD Receiving water		
TPEFF0500D0049SW001	SW001	E	159240	N	71520	E	159256	N	71309	River Lee	SW_19_1663

Parameter	Emission Limit Value	
	mg/l	kg/day
pH	6 - 9	
cBOD	25	74
COD	125	--
Suspended Solids	35	--
Total Nitrogen (as N)	15	--
Total Ammonia (as N)	5 ^{Note 1}	--
Total Phosphorus (as P)	2	15
Orthophosphate (as P)	2	29.5

Note 1: This emission limit value shall apply from the 1st January 2015.

Amend Schedule A.4. Storm Water Overflows as follows:

A.4. Storm Water Overflows

EDEN Code	Licence Code	Discharge Location			Receiving water name	WFD Receiving water	
TPEFF0500D0049SW005	SW005	E	159240	N	71520	River Lee	SW_19_1663
TPEFF0500D0049SW006	SW006	E	161301	N	71619	River Lee	SW_19_1663

Amend Schedule B.1. Monitoring of Primary Waste Water Discharge as follows:

EDEN Code	Licence Code	Discharge Location			Monitoring Location				
TPEFF0500D0049SW001	SW001	E	159256	N	71309	E	159256	N	71309

Parameter	Minimum Monitoring Frequency	Analysis Method/Technique
Flow	Continuous Daily ^{Note 1}	On-line flow meter with recorder
pH	Monthly ^{Note 2}	pH electrode/meter and recorder
cBOD	Monthly ^{Note 2}	Standard Method
Chemical Oxygen Demand	Monthly ^{Note 2}	Standard Method
Suspended Solids	Monthly ^{Note 2}	Standard Method
Total Nitrogen (as N)	Monthly ^{Note 2}	Standard Method
Total Ammonia (as N)	Monthly ^{Note 2}	Standard Method
Total Phosphorus (as P)	Monthly ^{Note 2}	Standard Method
Orthophosphate (as P)	Monthly ^{Note 2}	Standard Method
Priority substances ^{Note 3}	Annually	Standard Method
Toxicity ^{Note 4}	As required	To be agreed by the Agency
Visual Inspection	Daily	Sample and examine for colour, odour, oils, fats and greases

Note 1: Total effluent volume discharged over the 24-hour period in which the composite sample is collected shall be recorded.

Note 2: All samples shall be collected on a 24-hour time-based composite sampling basis.

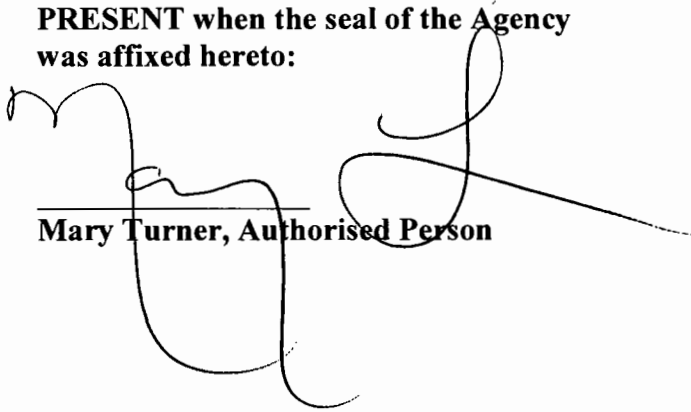
Note 3: The relevant priority substances or pollutants for monitoring shall be identified by the licensee by undertaking a risk based assessment in accordance with 'Guidance on the Screening for Priority Substances for Waste Water Discharge Licences' issued by the Agency. Monitoring for the identified priority substances or pollutants shall be carried out at least annually, unless a case for less frequent monitoring is agreed by the Agency.

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.

This technical amendment shall be cited as Amendment B to Waste Water Discharge Licence Register No. D0049-01 dated 13/11/2008 and is to be read in conjunction with that licence and all previous amendments.

Sealed by the seal of the Agency on this the 3rd day of February, 2014

**PRESENT when the seal of the Agency
was affixed hereto:**



Mary Turner, Authorised Person

