

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

Waste Water Discharge Licence

Licence Register Number:	D0332-02
Licensee:	Irish Water
Company Register Number:	530363
Agglomeration:	Millstreet and Environs



HEADQUARTERS Environmental Protection Agency
An Ghníomhaireacht um Cúramhús Comhshaoil
JOHNSTOWN CASTLE ESTATE
COUNTY WEXFORD, IRELAND
PHONE: +353-53-9160600
FAX: +353-53-9160699

WASTE WATER DISCHARGE (AUTHORISATION) REGULATIONS 2007,
AS AMENDED

WASTE WATER DISCHARGE LICENCE

Decision of Agency, under Regulation 28(1) of the Waste Water Discharge
(Authorisation) Regulations 2007, as amended.

Reference Number: D0332-02

The Agency in exercise of the powers conferred on it by the Waste Water Discharge (Authorisation) Regulations 2007, as amended, for the reasons hereinafter set out, hereby grants this Waste Water Discharge Licence to Irish Water, as by virtue of Section 17(4) of the Water Services (No. 2) Act 2013 the relevant application is deemed to have been made by Irish Water, in respect of the agglomeration as specified in *Part 1 Schedule of Discharges Licensed* of the attached licence subject to Conditions, as set out in the schedules attached hereto.

The licence authorises the discharge of waste water from the waste water works which services the agglomeration described below subject to conditions.

A copy of the Decision is attached.

Licensed Discharges, in accordance with the Second Schedule of the Waste Water Discharge (Authorisation) Regulations 2007, as amended

Discharges from agglomerations with a population equivalent of 2,001 to 10,000

GIVEN under the Seal of the Agency this 8th day of November, 2021

PRESENT when the seal of the Agency was affixed hereto:


Ray Cullinane, Authorised Person



INTRODUCTION

This introduction is not part of the licence and does not purport to be a legal interpretation of the licence.

This licence provides for waste water discharges from the Millstreet and Environs agglomeration. The grounds for this review are that the previous licence (D0332-01) required improvement works to be carried out and the relocation of the primary discharge from the Tanyard Stream to the Finnow River.

The upgraded WWTP and relocated primary discharge provide tertiary treatment including screening and grit removal, biological treatment with aeration, nitrification, denitrification and phosphorus removal with a design p.e. of 3,220 p.e.

The sewer network is a partially combined network (surface runoff as well as waste water) and includes four pumping stations. All flows are gravity fed to the Waste Water Treatment Plant (WWTP).

The primary discharge location is to the Finnow River at Finnow Bridge.

There are seven (7) storm water overflows that are either new, retained and/or repurposed. Of the seven SWOs, two (2) are dual function SWO/EO and discharge into the Finnow River, and five (5) SWOs discharge into the Tanyard Stream.

The Finnow River is a tributary of the Blackwater (Cork/Waterford) River confluencing with the main stem of the Blackwater (Cork/Waterford) River 2 km downstream of the primary discharge point.

The licence sets out in detail the conditions under which Irish Water will control and manage the waste water discharges from the agglomeration covered by this licence.

The legislation governing this licence relates specifically to, and is restricted to, the regulation and control of waste water discharges from the agglomeration. Therefore any odour or noise issue that may be associated with the waste water works including the treatment plant cannot be addressed by this licence.

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GLOSSARY OF TERMS

All terms in this licence should be interpreted in accordance with the definitions in the Waste Water Discharge (Authorisation) Regulations 2007, as amended, unless otherwise defined in this section.

AER	Annual Environmental Report.
Agglomeration	An area where the population or economic activities or both are sufficiently concentrated for a waste water works to have been put in place.
Agreement	Agreement in writing.
Annually	At least one measurement in any one year.
Application	The application for this licence.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of the licence application.
Bi-monthly	At approximately two - monthly intervals.
Biannually	At approximately six – monthly intervals.
Biennially	Once every two years.
BOD	5 day Biochemical Oxygen Demand (without nitrification suppression).
cBOD	5 day Carbonaceous Biochemical Oxygen Demand (with nitrification suppression).
CEN	Comité Européen De Normalisation – European Committee for Standardisation.
COD	Chemical Oxygen Demand.
Combined approach	In relation to a waste water works, means the control of discharges and emissions to waters whereby the emission limits for the discharge are established on the basis of the stricter of either or both, the limits and controls required under the Urban Waste Water Regulations, and the limits determined under statute or Directive for the purpose of achieving the environmental objectives established for surface waters, groundwater or protected areas for the water body into which the discharge is made.
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.
Daily	During all days when discharges are taking place; with at least one measurement/observation per day.
Day	Any 24 hour period.

Discharge limits	Those limits, specified for a particular parameter in <i>Schedule A: Discharges & Discharge Monitoring</i> , of this licence.
Discharge Point	The point from which a waste water discharge occurs.
DO	Dissolved oxygen.
Documentation	Any report, record, result, data, drawing, proposal, interpretation or other document, in written or electronic form, that is required by this licence.
DoECLG	Department of the Environment, Community and Local Government.
Domestic Waste Water	Waste water from residential settlements and services that originates predominantly from human metabolism and from household activities.
Drawing	Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence.
ELV	Emission Limit Value.
Environmental damage	As defined in Directive 2004/35/EC.
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: <ol style="list-style-type: none">(i) create a risk to waters, sediment, plants or animals.(ii) deleteriously interfere with the quality of aquatic ecosystems or terrestrial ecosystems directly depending on aquatic ecosystems including by:<ul style="list-style-type: none">• Rendering those or any other waters poisonous or injurious to fish, shellfish, spawning grounds or the food of any fish, or• 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,(iii) impair or interfere with amenities and other legitimate uses of the water, or(iv) result in water failing to meet any environmental quality standards prescribed in regulations for the purposes of giving effect to the requirements of any Directive relating to the quality or use of water for the time being in force.
EPA	Environmental Protection Agency.
Fortnightly	A minimum of 24 times per year, at approximately two week intervals.
FSAI	Food Safety Authority of Ireland.
GC/MS	Gas chromatography/mass spectroscopy.

ICP	Inductively coupled plasma spectroscopy.
Incident	The following shall constitute an incident for the purposes of this licence: (i) any discharge that does not comply with the requirements of this licence; (ii) any discharge or occurrence with the potential for environmental contamination of surface water or groundwater, or posing an environmental threat to land, or requiring an emergency response by the licensee and/or the relevant authorities.
Industrial waste water	Any waste water that is discharged from premises used for carrying on any trade or industry or other non-domestic use and excludes run-off rain water.
Interim ELV	Interim Emission Limit Value means an emission limit value that applies to a discharge for the period between the date of grant of licence and the date specified for the emission limit value to take effect.
Licensee	Irish Water, Colvill House, 24/26 Talbot Street, Dublin 1, Company Register Number 530363, as by virtue of Section 17(4) of the Water Services (No. 2) Act 2013, the application for this licence is deemed to have been made by Irish Water and this licence is granted to Irish Water.
Licensing Regulations	Waste Water Discharge (Authorisation) Regulations 2007, as amended.
Local Authority	Cork County Council.
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.
Monthly	A minimum of 12 times per year, at intervals of approximately one month.
National Environmental Complaints Procedure	As established under the National Environmental Enforcement Network.
Population Equivalent	A measurement of organic biodegradable load and a population equivalent of 1 (1 p.e.) means the organic biodegradable load having a five-day biochemical oxygen demand (BOD5) of 60g of oxygen per day; the load being calculated on the basis of the maximum average weekly load entering the waste water works during the year, excluding unusual situations such as those due to heavy rain.
Priority Substances	Those substances, or groups of substances, identified in accordance with Article 16(2) of the Water Framework Directive and listed in Annex I of Priority Substances Directive 2013/39/EU, for which measures have to be taken in accordance with Article 16(1) and 16(8) of the Water Framework Directive.
Primary Discharge	The discharge with the largest volume being discharged from the waste water works.

Primary Treatment	Treatment of urban waste water by a physical and/or chemical process involving settlement of suspended solids, or other processes in which the BOD5 of the incoming waste water is reduced by at least 20% before discharge and the total suspended solids of the incoming waste water are reduced by at least 50%.
Protected Areas	Areas designated as requiring special protection under specific Community legislation for the protection of their surface water and groundwater or for the conservation of habitats and species of European sites directly dependant on water and listed in the register established by the Agency in accordance with Article 8 of the Water Policy Regulations.
PRTR	Pollutant Release and Transfer Register.
Quarterly	All or part of a period of three consecutive months beginning on the first day of January, April, July or October.
SAC	Special Area of Conservation designated under the <i>Habitats Directive</i> , Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora.
Sample(s)	Unless the context of this licence indicates to the contrary, the term sample(s) shall include measurements taken by electronic instruments.
Secondary Discharge	A potential, occasional or continuous discharge from the waste water works other than a primary discharge or a storm water overflow.
SPA	Special Protection Area designated under the <i>Birds Directive</i> , Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds.
Specified discharges	Those discharges listed in <i>Schedule A: Discharges & Discharge Monitoring</i> , of this licence.
SSRS	Small Streams Risk Score.
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.
Storm water overflow	A structure or device on a sewerage system designed and constructed for the purpose of relieving the system of excess flows that arise as a result of rain water or melting snow in the sewered catchment, the excess flow being discharged to receiving waters.
The Agency	Environmental Protection Agency.
Unusual Weather Conditions	In relation to waste water discharges unusual weather conditions, means any one or combination of the following:

- (i) heavy rainfall >50 mm in 24 hrs, >40 mm in 12 hrs, >30 mm in 6 hrs (i.e. Met Eireann Orange Alert criteria or greater);
- (ii) low ambient temperatures as evidenced by effluent temperature of 5°C or less or by the freezing of mechanical equipment in the works;
- (iii) significant snow deposits;
- (iv) tidal or fluvial flooding;

weather conditions causing unforeseen loss of power supply to the waste water treatment plant which could not be ameliorated by the reasonable provision and operation of standby generation facilities.

Waste Water	Domestic waste water or the mixture of domestic waste water with industrial waste water.
Waste Water Works	Sewers and their accessories (or any part thereof) and all associated structural devices, including waste water treatment plants, which are owned by, vested in, controlled or used by the licensee for the collection, storage, treatment or discharge of waste water.
Weekly	During all weeks when discharges are taking place; with at least one measurement in any one week.
WWTP	Waste water treatment plant.

DECISION & REASONS FOR THE DECISION

The Environmental Protection Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of this licence, any discharges from the agglomeration served by the waste water works will comply with and will not contravene any of the requirements of Regulation 6 of the Waste Water Discharge (Authorisation) Regulations 2007, as amended.

The Agency also considers that the activity will not adversely affect the integrity of any European Site, and has decided to impose conditions for the purposes of ensuring they do not do so. It has determined that the activity, if managed, operated and controlled in accordance with the licence, will not have any adverse effect on the integrity of any of those sites.

The Agency has accordingly decided to grant a licence to Irish Water to carry on the activity listed in *Part I: Schedule of Discharges Licensed*, subject to the conditions set out in *Part II: Conditions*; such licence to take effect in lieu of Licence Register Number: D0332-01.

In reaching this decision the Agency has had regard to the requirements and objectives of Regulation 6 of the Licensing Regulations and has considered the documentation relating to:

- the existing licence, Register Number: D0332-01;
- the review application, Register Number: D0332-02 and the supporting documentation received from the applicant;
- the submissions received;
- the Inspector's Report dated 2 November 2021;

and has carried out an Appropriate Assessment of the likely significant effects of the authorised discharge(s) on European Sites.

A screening for Appropriate Assessment was undertaken to assess, in view of best scientific knowledge and the conservation objectives of the sites, if the activity individually or in combination with other plans or projects is likely to have a significant effect on any European Site.

The activity is not directly connected with or necessary to the management of any European Site and the Agency considered, for the reasons set out below, that it cannot be excluded, on the basis of objective information, that the activity individually or in combination with other plans or projects, will have a significant effect on any European Site and accordingly determined that an Appropriate Assessment of the activity was required.

The screening identified that the risk of significant effects on European sites could not be ruled out given that the qualifying interests of nearby designated sites are dependent on water and water quality attributes of receiving waters.

In particular, Freshwater Pearl Mussel (*Margaritifera margaritifera*) is a qualifying interest of the Blackwater River (Cork/Waterford) SAC. Potential impacts include poor quality of the river substrate and sedimentation. Salmonid fish are host to the larval form of freshwater pearl mussels. The environmental objective of high status is required for the Blackwater River (Cork/Waterford) SAC (002170).

The Agency has completed the Appropriate Assessment of potential impacts on this site and has made certain, based on best scientific knowledge in the field and in accordance with the European Communities (Birds and Natural Habitats) Regulations 2011 as amended, pursuant to Article 6(3) of the Habitats Directive, that the activity, individually or in combination with other plans or projects, will not adversely affect the integrity of any European Site, in particular:

- Blackwater River (Cork/Waterford) SAC (002170)
- Blackwater Callows SPA (004094)
Blackwater Estuary SPA (004028)
- Killarney National Park, Macgillycuddy's Reeks and Caragh River Catchment SAC (000365)

having regard to their conservation objectives and will not affect the preservation of the sites at favourable conservation status if carried out in accordance with this licence and the conditions attached hereto for the following reasons:

- Condition 3 and *Schedule A: Discharges & Discharge Monitoring*, of this licence specify ELVs, determined in accordance with the combined approach, that will contribute towards the achievement of environmental objectives of European sites, and the environmental objective of high status for Blackwater River (Cork/Waterford) SAC (002170), and include the EQSs established under European Communities Environmental Objectives (Surface Water) Regulations 2009 (S.I. No. 272 of 2009) as amended.
- Condition 3.3 requires the licensee to take such measures as necessary to ensure that no deterioration in the quality of the receiving water shall occur as a result of the discharge.
- Condition 3.4 requires that all storm water overflows shall be in compliance with the criteria for storm water overflows, as set out in the DoECLG 'Procedures and Criteria in Relation to Storm Water Overflows', 1995 and any other guidance as may be specified by the Agency.
- Specified monitoring of discharges and receiving waterbodies (Condition 4 and *Schedule B: Ambient Monitoring*, of this licence).
- An on-going programme of improvements is required (Condition 5.1).

The continued anticipation and management of accidental discharges is required by specified Conditions (Condition 4.18, Condition 5.2 and Condition 6.1). Additionally, in order to minimise accidents and their consequences, the licence requires the following:

- An operation and maintenance programme for all plant and equipment to ensure that no unauthorised wastewater discharges take place (Condition 4.9).
- An Emergency Response Procedure is required to minimise the effects of any emergency on the environment (Condition 6.5).

The Agency is satisfied that no reasonable scientific doubt remains as to the absence of adverse effects on the integrity of these European Sites;

- Blackwater River (Cork/Waterford) SAC (002170)
- Blackwater Callows SPA (004094)
- Blackwater Estuary SPA (004028)
- Killarney National Park, Macgillycuddy's Reeks and Caragh River Catchment SAC (000365)

PART I: SCHEDULE OF DISCHARGES LICENSED

In pursuance of the powers conferred on it by the Waste Water Discharge (Authorisation) Regulations 2007, as amended, the Environmental Protection Agency (the Agency), under Regulation 28(1) of the said Regulations grants this Waste Water Discharge Licence to Irish Water, Colvill House, 24/26 Talbot Street, Dublin 1, Company Register Number 530363, as by virtue of Section 17(4) of the Water Services (No. 2) Act 2013, the application for this licence is deemed to have been made by Irish Water and this licence is granted to Irish Water. The licence authorises the discharge of waste water from the waste water works servicing the *Millstreet and Environs* agglomeration described below, subject to conditions listed in Part II, with the reasons therefor and the associated schedules attached thereto.

***Licensed Discharges, in accordance with the Second Schedule
of the Waste Water Discharge (Authorisation) Regulations 2007, as amended***

Discharges from agglomerations with a population equivalent of 2,001 to 10,000
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PART II: CONDITIONS

Condition 1. Scope

1.1 Statutory Obligations

This licence is for the purposes of Waste Water Discharge licensing under the Waste Water Discharge (Authorisation) Regulations 2007, as amended, only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.

1.2 The agglomeration is the area outlined in *Red* on Drawing No. MMD-330760-C-DR-00_XX-2500 (*Attachment B.2*) of the application. Any reference in this licence to agglomeration shall mean the area thus outlined in *Red*. The agglomeration is limited to 3,220 p.e.

1.3 The discharge(s) to waters from the waste water works shall be restricted to those listed and described in *Schedule A: Discharges & Discharge Monitoring*, 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. There shall be no other discharges of environmental significance.

1.4 The discharge to waters from the waste water works shall be controlled and managed and shall take place as set out in this licence. All programmes required to be carried out under the terms of this licence become part of this licence.

1.5 The locations of the waste water discharges authorised by this licence is as presented on Drawing No. MMD-330760-C-DR-00-XX-2503 *Attachment B.6(2)* of the application and in *Schedule A: Discharges & Discharge Monitoring*, of this licence. The Licence Codes for each discharge point are identified in *Schedule A: Discharges & Discharge Monitoring*, of this licence.

1.6 No alteration to the waste water works or any part thereof that would, or is likely to, result in a material change to or increase in discharges sufficient to represent a risk of causing a breach of emission standards specified in the licence shall be carried out or commenced without prior notice to, and without the agreement of, the Agency.

1.7 Treatment Capacities

1.7.1 The licensee shall, on an annual basis, undertake an assessment of the remaining organic and hydraulic treatment capacities within the waste water works (design capacity of plant, less flow-load calculation for representative period).

1.7.2 The licensee shall maintain such available capacity within the waste water works as is necessary to ensure that there is no environmental risk posed to the receiving water environment as a result of the discharges.

1.7.3 Where the licensee determines, as part of those assessments undertaken in Condition 1.7.1 above, that the remaining treatment capacity will be exceeded within the ensuing three year period, the licensee shall notify the Agency and seek a licence review, as appropriate.

1.8 This licence has been granted in substitution for licence granted to the licensee on 3rd February 2014 (Register No. D0332-01). The previous Waste Water Discharge licence (Reg. No. D0332-01) is superseded by this revised licence. Where the Agency grants a revised licence, the previous licence or revised licence, as the case may be, applying to the discharge from the waste water works concerned, shall stand revoked.

1.9 **Infrastructural Works**

1.9.1 Where a treatment plant associated with the agglomeration waste water works requires infrastructural improvements to the wastewater works that are subject to the European Communities (Environmental Impact Assessment) Regulations 1989, as amended, the licensee shall notify the Agency.

1.9.2 Where the licensee has received approval in accordance with the Planning and Development Act 2000, as amended, for the infrastructural improvements in Condition 1.9.1 above, the licensee shall seek a determination from the Agency as to whether a review of the Waste Water Discharge licence is required.

Reason: To clarify the scope of this licence.
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Condition 2. Interpretation

2.1 Emission limit values for discharges to waters in this licence shall be interpreted in the following way:

2.1.1 Composite Sampling

2.1.1.1 No pH value shall deviate from the specified range.

2.1.1.2 For cBOD and COD, no more than the relevant number of samples specified in *Schedule A.4: Interpretation of Discharge Monitoring Results* – Column 2 or Column 4, of this licence, shall exceed the concentration Emission Limit Value based on the number of samples taken as listed in *Schedule A.4: Interpretation of Discharge Monitoring Results* – Column 1 or Column 3, of this licence. No individual result similarly calculated shall exceed the emission limit value by more than 100%.

2.1.1.3 For Suspended Solids, no more than the relevant number of samples specified in *Schedule A.4: Interpretation of Discharge Monitoring Results* – Column 2 or Column 4, of this licence, shall exceed the concentration Emission Limit Value based on the number of samples taken as listed in *Schedule A.4: Interpretation of Discharge Monitoring Results* – Column 1 or Column 3, of this licence. No individual result similarly calculated shall exceed the emission limit value by more than 150%.

2.1.1.4 For Orthophosphate no more than the relevant number of samples specified in *Schedule A.4: Interpretation of Discharge Monitoring Results* – Column 2 or Column 4, of this licence, shall exceed the emission limit value. No individual result similarly calculated shall exceed the emission limit value by more than 100%.

2.1.1.5 For Ammonia no more than the relevant number of samples specified in *Schedule A.4: Interpretation of Discharge Monitoring Results* – Column 2 or Column 4, of this licence, shall exceed the emission limit value. No individual result similarly calculated shall exceed the emission limit value by more than 100%.

2.1.1.6 For parameters other than pH, cBOD, COD, Suspended Solids, no more than the relevant number of samples specified in *Schedule A.4: Interpretation of Discharge Monitoring Results* – Column 2 or Column 4, of this licence, shall exceed the concentration Emission Limit Value based on the number of samples taken as listed in *Schedule A.4: Interpretation of Discharge Monitoring Results* – Column 1 or Column 3, of this licence. No individual result similarly calculated shall exceed the emission limit value by more than 20%.

2.1.2 Discrete Sampling

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

- 2.2 No sample of the discharge taken at a time when unusual weather conditions are adversely affecting the operation of the waste water treatment plant, shall be taken into account in determining compliance with Conditions 2.1 of this licence. A replacement sample shall be taken within 72 hours of cessation of the unusual weather conditions. The licensee shall report the sample result including any justification of the basis for excluding the sample in the AER.
- 2.3 On any occasion where unusual weather conditions affect the operation of the waste water works the licensee shall use its best endeavours to mitigate the effect of the unusual weather conditions.

Reason: To clarify the interpretation of limit values fixed under the licence.

Condition 3. Discharges

- 3.1 No discharges from the waste water works are permitted save under and in accordance with this licence.
- 3.2 No specified discharge from the waste water works shall exceed the emission limit values set out in *Schedule A: Discharges & Discharge Monitoring*, of this licence, subject to the requirements of Condition 2 above.
- 3.3 The licensee shall take such measures as are necessary to ensure that no deterioration in the quality of the receiving waters shall occur as a result of the discharge.
- 3.4 Storm Water Overflows
- 3.4.1 Storm water overflows shall be as specified in *Schedule A.3: Storm Water Overflows*, of this licence. The licensee shall carry out an investigation to identify any additional storm water overflows within the waste water works as part of the programme of improvements. The Agency shall be notified in writing of any additional storm water overflows not listed in *Schedule A.3 Storm Water Overflows*, of this licence.
- 3.4.2 All storm water overflows shall be in compliance with the criteria for storm water overflows, as set out in the DoECLG '*Procedures and Criteria in Relation to Storm Water Overflows*', 1995 and any other in guidance as may be specified by the Agency.
- 3.4.3 Discharges from storm water overflows shall not cause environmental pollution.
- 3.4.4 The licensee shall undertake an assessment of specified and additional storm water overflows identified in accordance with Condition 3.4.1 to determine compliance of these storm water overflows with DoECLG criteria. If determined that these storm water overflows are not in compliance with DoECLG criteria, they shall be upgraded to meet DoECLG criteria by the date set out in *Schedule C.1: Specified Improvement Programme*, of this licence.
- 3.5 The licensee shall ensure that all or any of the following:
- Gross solids
 - Litter
- associated with discharges from the waste water works do not result in an impairment of, or an interference with, amenities or the environment.

<p>Reason: To provide for the protection of the receiving environment by way of control and limitation of discharges to the Finnow River and Tanyard Stream.</p>

Condition 4. Control and Monitoring

- 4.1 The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as set out below and in accordance with *Schedule A: Discharges & Discharge Monitoring*, of this licence.
- 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.
- 4.1.2 Such procedures shall be assessed for their suitability for the test matrix and performance characteristics shall be determined.
- 4.1.3 Such procedures shall be subject to a programme of Analytical Quality Control, verified by a competent third party using control standards with evaluation of test responses.
- 4.2 The licensee shall ensure that:
- 4.2.1 Sampling and analysis for all parameters listed in the Schedules to this licence, and
- 4.2.2 Any reference measurement methods to calibrate automated measurement system shall be carried out by an appropriate Standard Method.
- 4.3 The licensee shall install on all emission points such sampling points or equipment, including any data-logging or other electronic communication equipment, as may be required by the Agency. All such equipment shall be consistent with the safe operation of all sampling and monitoring systems.
- 4.4 All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the discharges are being made unless alternative sampling or monitoring has been agreed in writing by the Agency for a limited period. In the event of the malfunction of any continuous monitor, the licensee shall contact the Agency as soon as practicable and alternative sampling and monitoring facilities shall be put in place. Agreement for the use of alternative equipment, other than in emergency situations, shall be obtained from the Agency.
- 4.5 Monitoring and analysis equipment shall be operated and maintained as necessary so that monitoring accurately reflects the discharge (or ambient conditions where that is the monitoring objective).
- 4.6 The licensee shall clearly label and provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.
- 4.7 The licensee shall ensure that a person in charge or a nominated deputy shall be available to meet with 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.
- 4.8 The licensee shall maintain corrective action procedures. In the event of an incident and/or should the specified requirements of this licence not be fulfilled, the licensee shall take corrective action as soon as practicable.
- 4.9 The licensee shall maintain a programme for maintenance and operation of all plant and equipment to ensure that no unauthorised waste water discharges take place. This programme shall be based on the instructions issued by the manufacturer/supplier or installer of the equipment. Appropriate record keeping and diagnostic testing shall support this maintenance programme. The licensee shall clearly allocate responsibility for the planning management and execution of all aspects of this programme to appropriate personnel.

- 4.10 The location, frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended with the agreement of the Agency following evaluation of test results.
- 4.11 Priority Substances
- 4.11.1 Within six months of the date of grant of this licence the licensee shall undertake a risk based assessment of the discharge(s) in order to identify the relevant priority substances for monitoring. This assessment shall be undertaken 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 shall be carried out at least annually.
- 4.11.2 The licensee shall take such measures as are necessary to reduce or eliminate priority substances in the discharge(s). Implementation of the measures identified shall be reported on in the Programme of Improvements (required under Condition 5.1).
- 4.12 The licensee shall prepare a PRTR report for the primary and secondary discharges. The substances to be included in the PRTR shall be as agreed by the Agency each year by reference to EC Regulation No. 166/2006 concerning the establishment of the European Pollutant Release and Transfer Register and amending Council Directives 91/689/EEC and 96/61/EC. The PRTR shall be prepared in accordance with any relevant guidelines issued by the Agency and shall be submitted electronically in specified format and as part of the AER.
- 4.13 The licensee shall carry out monthly monitoring of the influent stream to the waste water treatment plant for cBOD; COD; Suspended Solids; Total Nitrogen; Total Phosphorus, in order to measure the mass loadings and removal efficiencies within the treatment plant.
- 4.14 Prior to submitting ambient monitoring data, the licensee must consult with the Agency with regard to the appropriate format for submittal.
- 4.15 Where such ambient monitoring results are available from any other statutory body, including the Agency, the licensee may submit those results in fulfilment of the requirements of *Schedule B: Ambient Monitoring*, of this licence.
- 4.16 The licensee shall maintain a composite sampler on all monitoring points listed in *Schedule A.1: Primary Waste Water Discharge & Monitoring*, of this licence. All samples thereafter shall be collected on a 24-hour flow proportional or time based composite sampling basis.
- 4.17 The licensee shall record the total effluent volume discharged over the 24-hour period in which any composite sample is collected.
- 4.18 The licensee shall provide an annual statement as to the measures taken or adopted to minimise environmental damage associated with discharges or overflows from the waste water works following anticipated events or accidents/incidents.

<p>Reason: To provide for the protection of the receiving environment by way of control and monitoring of discharges.</p>
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Condition 5. Programmes of Improvements

- 5.1 The licensee shall, as a part of the AER (required under Condition 6.8), prepare and submit to the Agency a programme of improvements to maximise the effectiveness and efficiency of the waste water works in order to:
- 5.1.1 Achieve improvements in the quality of all discharges from the works;
 - 5.1.2 Meet the emission limit values specified in *Schedule A: Discharges & Discharge Monitoring*, of this licence;
 - 5.1.3 Give effect to Regulation 2 of the Waste Water Discharge (Authorisation) Regulations 2007, as amended;
 - 5.1.4 Reduce Total Phosphorus loadings in the discharge to the maximum practicable extent;
 - 5.1.5 Meet the obligations of Condition 1.7;
 - 5.1.6 Identify measures to minimise any environmental damage associated with discharges or overflows from the waste water works following anticipated events or accidents/incidents.
- 5.2 The programme of improvements referred to in Condition 5.1 shall include an assessment of:
- 5.2.1 The waste water treatment plant, having regard to the effectiveness of the treatment provided by reference to the following:
 - 5.2.1.1 The existing level of treatment, capacity of treatment plant and associated equipment;
 - 5.2.1.2 The emission limit values specified in *Schedule A: Discharges & Discharge Monitoring*, of this licence;
 - 5.2.1.3 Designations of the receiving water body;
 - 5.2.1.4 Water quality objective for the receiving water body;
 - 5.2.1.5 The standards and volumetric limitations applied to any industrial waste water that is licensed to discharge to the waste water works.
 - 5.2.2 The integrity of the waste water works having regard to:
 - 5.2.2.1 Capacity of the waste water works;
 - 5.2.2.2 Leaks from the waste water works;
 - 5.2.2.3 Misconnections between foul sewers and surface water drainage network;
 - 5.2.2.4 Infiltration by surface water;
 - 5.2.2.5 Infiltration by groundwater;
 - 5.2.2.6 Such other aspects of the works as may be specified by the Agency.
 - 5.2.3 All storm water overflows associated with the waste water works to determine the effectiveness of their operation and in particular to identify improvements necessary to comply with the requirements of this licence.
 - 5.2.4 Review the Operation and Maintenance Programme required by Condition 4.9 as part of the assessments required under Condition 5.2.1 to 5.2.3 to prevent incidents associated with discharges from the waste water works.

- 5.3 The programme of improvements shall include a plan for implementation for each individual improvement identified. The plan for implementation shall in the case of the assessment carried out under Condition 5.2:
- 5.3.1 Identify, evaluate and describe the works necessary to implement those works;
 - 5.3.2 Clearly identify and describe the improvement and the timeframe for implementation;
 - 5.3.3 Specify the parametric emission(s) that will be affected by the implementation of the improvement;
 - 5.3.4 Identify the anticipated improvements in the quality of the receiving waters as a result of the implementation of the improvement.
- 5.4 The licensee shall complete the improvements as set out in *Schedule C: Specified Improvement Programme*, of this licence.
- 5.5 The licensee shall put in place a programme of measures for the gathering, recording and retention of information in relation to the infrastructural components of the waste water works. This information shall be in the form of "As-Constructed" drawings and electronic mapping tools, or in any other format as required by the Agency.

<p>Reason: To provide for the improvement of the waste water works on a planned basis having regard to the need for on-going assessment, recording and reporting of matters affecting the receiving water environment.</p>

Condition 6. Notifications, Records and Reports

- 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:
- 6.1.1 Inland Fisheries Ireland in the case of discharges to receiving waters.
 - 6.1.2 The Water Services Authority in the case of any incident where the discharge(s) have been identified as upstream of a drinking water abstraction point that is not in the charge of Irish Water.
- 6.2 The licensee shall record all complaints of an environmental nature related to the discharge(s) to waters from the waste water works in accordance with the national environmental complaints procedure. Each such record shall give details of the date and time of the complaint, the name of the complainant (if provided), and the nature of the complaint. A record shall also be kept of the response made in the case of each complaint.
- 6.3 The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence.
- 6.4 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:
- 6.4.1 The licence application and all associated documentation;
 - 6.4.2 The licence(s) relating to the discharge(s) to waters from the waste water works;
 - 6.4.3 The previous year's AER;
 - 6.4.4 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;
 - 6.4.5 Relevant correspondence with the Agency;
 - 6.4.6 Up to date drawings/plans showing the location of key process and environmental infrastructure, including monitoring locations and discharge points;
 - 6.4.7 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.
- 6.5 The licensee shall, maintain a documented Emergency Response Procedure that addresses any emergency situation that may originate on-site. This procedure shall include provision for minimising the effects of any emergency on the environment. This procedure shall be reviewed annually and updated as necessary.
- 6.6 The licensee shall maintain a Public Awareness and Communications Programme to ensure that members of the public can obtain, at all reasonable times, environmental information relating to the discharge.

- 6.7 Unless otherwise agreed by the Agency, all reports and notifications submitted to the Agency shall:
- 6.7.1 Be sent to Administration, Office of Environmental Enforcement (OEE) at the Agency's Headquarters or to such other Agency office agreed by the Agency;
 - 6.7.2 Comprise one original and two copies unless additional copies are required by the Agency;
 - 6.7.3 Be formatted in accordance with any written instruction or guidance issued by the Agency;
 - 6.7.4 Include whatever information may be required by the Agency;
 - 6.7.5 Be identified by a unique code, indicate any modification or amendment, and be correctly dated to reflect any such modification or amendment;
 - 6.7.6 Be accompanied by a written interpretation setting out their significance in the case of all monitoring data; and
 - 6.7.7 Be transferred electronically to the Agency's computer system if required by the Agency.
- 6.8 The licensee shall submit to the Agency, by the 28th February of each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in *Schedule D: Annual Environmental Report*, of this licence and shall be prepared in accordance with any relevant guidelines issued by the Agency. The content of the AER may be revised subject to the agreement of the Agency.
- 6.9 All reports shall be certified accurate and representative by an employee of Irish Water or a nominated, suitably qualified and experienced deputy.
- 6.10 The licensee shall notify the Agency, as soon as is practicable, where a discharge from the waste water works has ceased permanently.

Reason: To provide for the collection and reporting of adequate information on the activity.

Condition 7. Financial Charges and Provisions

7.1 Agency Charges

- 7.1.1 The licensee shall pay to the Agency such sum, as the Agency from time to time determines, having regard to variations in the extent of reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring the discharge as the Agency considers necessary for the performance of its functions under the Waste Water Discharge (Authorisation) Regulations 2007, as amended. All such payments shall be made within one month of the date upon which demanded by the Agency.
- 7.1.2 In the event that the frequency or extent of monitoring, investigations or other functions carried out by the Agency needs to be increased, the licensee shall contribute such sums as determined by the Agency to defray its costs in regard to items not covered by the said annual contribution.

<p>Reason: To provide for the adequate financing for monitoring and financial provisions for measures to protect the environment.</p>
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SCHEDULE A: DISCHARGES & DISCHARGE MONITORING**A.1: Primary Waste Water Discharge & Monitoring**

A.1.1 Primary Waste Water Discharge					
EDEN Code	Licence Code	Discharge Location	Monitoring Location	Receiving Water Name	WFD Code Receiving Water
TPEFF3900D0332SW011	SW011	E 126674 N 092040	E 127399 N 090983	Finnow River	IE_SW_18F030300

Discharge Emission Limit Values and Monitoring							
Parameter	Units	Discharges			Monitoring		
		Interim ELV (or Interim % Reduction)	ELV	ELV Commencement Date	Monitoring Frequency	Sampling Method	Analysis Method / Technique
BOD, 5 days with Inhibition (Carbonaceous BOD)	mg/l	-	20	From date of grant of licence	Monthly	Composite	Standard Method
COD-Cr	mg/l	-	125	From date of grant of licence	Monthly	Composite	Standard Method
Suspended Solids	mg/l	-	25	From date of grant of licence	Monthly	Composite	Standard Method
Ammonia-Total (as N)	mg/l	-	0.8	From date of grant of licence	Monthly	Composite	Standard Method
ortho-Phosphate (as P) - unspecified	mg/l	-	0.5	From date of grant of licence	Monthly	Composite	Standard Method
pH	units	-	6 - 9	From date of grant of licence	Monthly	Composite	Standard Method

A.2: Secondary Waste Water Discharge(s) & Monitoring

There shall be no Secondary Waste Water Discharges associated with this agglomeration.

A.3: Storm Water Overflows

A.3.1 Storm Water Overflows					
EDEN Code	Licence Code	Discharge Location	Storm Water Overflow Location	Name of Receiving Water	WFD Code Receiving Water
TPEFF0500D0332SW004	SW004	E 126345 N 090483	To be confirmed by licensee	Finnow River	IE_SW_18F030300
TPEFF0500D0332SW005	SW005	E 126808 N 089966	To be confirmed by licensee	Finnow River	IE_SW_18F030200
TPEFF0500D0332SW006	SW006	E 127330 N 090754	To be confirmed by licensee	Tanyard Stream	IE_SW_18F030400
TPEFF0500D0332SW007	SW007	E 127398 N 091013	To be confirmed by licensee	Tanyard Stream	IE_SW_18F030400
TPEFF3900D0332SW008	SW008	E 127826 N 090348	To be confirmed by licensee	Tanyard Stream	IE_SW_18F030400
TPEFF3900D0332SW009	SW009	E 127398 N 091013	To be confirmed by licensee	Tanyard Stream	IE_SW_18F030400
TPEFF3900D0332SW010	SW010	E 127330 N 090754	To be confirmed by licensee	Tanyard Stream	IE_SW_18F030400

A.4 Interpretation of Discharge Monitoring Results

A.4 Interpretation of Discharge Monitoring Results			
<i>No. of Samples taken in any one year</i> Note 1	<i>Max. number of samples which may exceed ETV</i>	<i>No. of Samples taken in any one year</i> Note 1	<i>Max. number of samples which may exceed ETV</i>
4-7	1	172-187	14
8-16	2	188-203	15
17-28	3	204-219	16
29-40	4	220-235	17
41-53	5	236-251	18
54-67	6	252-268	19
68-81	7	269-284	20
82-95	8	285-300	21
96-110	9	301-317	22
111-125	10	318-334	23
126-140	11	335-350	24
141-155	12	351-365	25
156-171	13		

Note 1: Where the licensee has taken samples which exceed the number specified in this Schedule, the licensee shall submit to the Agency all results of analysis.

SCHEDULE B: AMBIENT MONITORING

B.1: Groundwater Monitoring

There is no ground water monitoring required in this licence.

B.2: Receiving Water Monitoring

<i>B.2.1 Receiving Water Monitoring</i>							
EDEN Code	Licence Code	Monitoring Location				Point Type	Name of Receiving Water
18F030290	SW008	E	126655	N	092042	Upstream	Finnow River
		E	To be agreed by the Agency	N	To be agreed by the Agency	Downstream	Finnow River

Parameter	Units	Monitoring Frequency	Analysis Method / Technique
BOD - 5 days (Total)	mg/l	Quarterly	Standard Method
ortho-Phosphate (as P) - unspecified	mg/l	Quarterly	Standard Method
Ammonia-Total (as N)	mg/l	Quarterly	Standard Method
Suspended Solids	mg/l	Quarterly	Standard Method
pH	units	Quarterly	Standard Method
Visual Inspection	Descriptive	Quarterly	Standard Method

SCHEDULE C: SPECIFIED IMPROVEMENT PROGRAMME**C.1: Specified Improvement Programme**

<i>C.1 Specified Improvements Programme</i>			
1	2	3	4
Location	Type	Specified Improvement	Completion Date
SW004	Storm Water Overflow	To be assessed and brought into compliance with DoECLG criteria	Within 12 months of the date of grant of this licence
SW006	Storm Water Overflow	To be assessed and brought into compliance with DoECLG criteria	Within 12 months of the date of grant of this licence
SW010	Storm Water Overflow	To be assessed and brought into compliance with DoECLG criteria	Within 12 months of the date of grant of this licence
Additional storm water overflows assessed in accordance with Condition 3.4.4	Storm Water Overflow	If not in compliance with DoECLG criteria following assessment, upgrade of sewer network to ensure stormwater overflow meets DoECLG criteria	Within 12 months of the date of assessment

SCHEDULE D: ANNUAL ENVIRONMENTAL REPORT

D.1 Annual Environmental Report Content.

Population equivalent of the agglomeration.
Discharges from the agglomeration.
Summary report on monthly influent monitoring.
Data collection and reporting requirements under the Urban Waste Water Treatment Directive.
Complaints summary.
Ambient monitoring summary.
Storm water overflow identification and inspection report.
Reported incidents summary.
Report on progress made and proposals being developed to meet the improvement programme requirements.
Development/Infrastructural works summary (completed in previous year or prepared for current year).
Risk based assessment to identify possible presence of priority substances.
Statement of measures related to the prevention of environmental damage associated with discharges or overflows.
Any other items specified by the Agency.

Sealed by the Seal of the Agency on this the 8th day of November 2021

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



Ray Cullinane, Authorised Person

