



CASTLETOWNSHEND AGGLOMERATION

WASTE WATER DISCHARGE LICENCE REVIEW APPLICATION

IRISH WATER

OCTOBER 2021

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Environmental Licensing Programme
Office of Environmental Sustainability
Environmental Protection Agency
PO Box 3000
Johnstown Castle Estate
Wexford

19/10/2021

Re.: Castletownshend WWDL (D0468-01)- Review Application

Dear Inspector,

Please find attached the Waste Water Discharge Licence Review application for the Castletownshend Agglomeration in accordance with the Waste Water Discharge Authorisation Regulations, 2007 (S.I. No. 684 of 2007), as amended.

A fee of €6,000 will be receipted and made electronically by end of October 2021.

I trust the above is satisfactory.

Yours sincerely,

Marie Feehan

Marie Feehan
Environmental Strategy

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This is a draft document and is subject to revision.



Waste Water Discharge Licence Application Form

EPA Ref. N°:
(Office use only)

Environmental Protection Agency
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Lo Call: 1890 335599 Telephone: 053-9160600 Fax: 053-9160699
Web: www.epa.ie Email: info@epa.ie

Tracking Amendments to Draft Application Form

Version No.	Date	Amendment since previous version	Reason
V. 2.0	05/10/2017	N/A	

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Environmental Protection Agency
Application for a Waste Water Discharge Licence under the
Waste Water Discharge (Authorisation) Regulations 2007 as
amended.

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ABOUT THIS APPLICATION FORM

This form is for the purpose of making an application for a Waste Water Discharge Licence under the Waste Water Discharge (Authorisation) Regulations 2007 as amended, or for the review of an existing Waste Water Discharge licence.

The Application Form **must** be completed in accordance with the instructions and guidance provided in the *Waste Water Discharge Licensing Application Guidance Note*. The Guidance Note gives an overview of Waste Water Licensing, outlines the licence application process (including the number of copies required) and specifies the information to be submitted as part of the application. The Guidance Note and application form are available to download from the Licensing page of the EPA's website at <http://www.epa.ie/pubs/forms/lic/wwda/>.

A valid application for a Waste Water Discharge Licence must contain the information prescribed in the Waste Water Discharge (Authorisation) Regulations 2007 as amended. Regulation 16 of the Regulations sets out the statutory requirements for information to accompany a licence application. This application form is designed in such a way as to set out these questions in a structured manner and not necessarily in the order presented in the Regulations. In order to ensure a legally valid application in respect of Regulation 16 requirements, please complete the Regulation 16 Checklist provided in Annex 2.

This Application Form does not purport to be, and should not be considered, a legal interpretation of the provisions and requirements of the Waste Water Discharge (Authorisation) Regulations 2007 as amended. While every effort has been made to ensure the accuracy of the material contained in this Application Form, the EPA assumes no responsibility and gives no guarantee or warranty concerning the accuracy, completeness or up-to-date nature of the information provided herein and does not accept any liability whatsoever arising from any errors or omissions.

Should there be any contradiction between the information requirements set out in the Application Form and any clarifying explanation contained in the accompanying Guidance Note, then the requirements in this Application Form shall take precedence.

PROCEDURES

The procedure for making and processing of applications for waste water discharge licences, and for the processing of reviews of such licences, appear in the Waste Water Discharge (Authorisation) Regulations 2007 as amended, and is summarised below. The application fees that shall accompany an application are listed in the Third Schedule to the Regulations.

Prior to submitting an application the applicant must publish (within the two weeks prior to date of application) in a newspaper circulating in the area, and erect at the point nearest to the waste water treatment plant concerned or, if no such plant exists, at a location nearest the primary discharge point, a notice of intention to apply.

An application for a licence must be submitted using this application form with the correct fee, and should contain relevant supporting documentation as attachments. The application should be based on responses to the form and include supporting written text and the appropriate use of tables and drawings. Where point source emissions occur, a system of unique reference numbers should be used to denote each discharge point. These should be simple, logical, and traceable throughout the application.

The application form is divided into a number of sections of related information. The purpose of these divisions is to facilitate both the applicant and the Agency in the provision of the information and its assessment. **Please adhere to the format as set out in the application form and clearly number each section and associated attachment, if applicable, accordingly.** Attachments should be clearly numbered, titled and paginated and must contain the required information as set out in the application form. Additional attachments may be included to supply any further information supporting the application. Any references made should be supported by a bibliography.

All questions should be answered. Where information is requested in the application form, which is not relevant to the particular application, the words "not applicable" should be clearly written on the form. The abbreviation "N/A" should not be used.

Additional information may need to be submitted beyond that which is explicitly requested on this form. Any references made should be supported by a bibliography. The Agency may request further information if it considers that its provision is material to the assessment of the application. Advice should be sought from the Agency where there is doubt about the type of information required or the level of detail.

Information supplied in this application, including supporting documentation will be put on public display and be open to inspection by any person.

Applicants should be aware that a contravention of the conditions of a waste water discharge licence is an offence under the Waste Water Discharge (Authorisation) Regulations 2007 as amended.

The provision of information in an application for a waste water discharge licence which is false or misleading is an offence under

Regulation 35 of the Waste Water Discharge (Authorisation) Regulations 2007 as amended.

Note: Drawings. The following guidelines are included to assist applicants:

- All drawings submitted should be titled and dated.
- All drawings should have a unique reference number and should be signed by a clearly identifiable person.
- All drawings should indicate a scale and the direction of north.
- All drawings should, generally, be to a scale of between 1:20 to 1:500, depending upon the degree of detail needed to be shown and the size of the facility. Drawings delineating the boundary can be to a smaller scale of between 1:1000 to 1:10560, but must clearly and accurately present the required level of detail. Drawings showing the waste water treatment plant location, if such a plant exists, can be to a scale of between 1:50 000 to 1:126 720. All drawings should, however, be A3 or less and of an appropriate scale such that they are clearly legible. Provide legends on all drawings and maps as appropriate.
- In exceptional circumstances, where A3 is considered inadequate, a larger size may be requested by the Agency.

It should be noted that it will not be possible to process or determine the application until the required documents have been provided in sufficient detail and to a satisfactory standard.

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SECTION A: NON-TECHNICAL SUMMARY

Advice on completing this section is provided in the accompanying Guidance Note.

A non-technical summary of the application is to be included here. The summary should identify all environmental impacts of significance associated with the discharge of waste water associated with the waste water works.

The following information must be included in the non-technical summary:

A description of:

- The waste water works and the activities carried out therein,
- the sources of emissions from the waste water works,
- the nature and quantities of foreseeable emissions from the waste water works into the receiving aqueous environment as well as identification of significant effects of the emissions on the environment,
- the proposed technology and other techniques for preventing or, where this is not possible, reducing emissions from the waste water works,
- further measures planned to comply with the general principle of the basic obligations of the operator, i.e., that no significant pollution is caused,
- measures planned to monitor emissions into the environment,
- type of discharge, i.e., continuous, tidal, intermittent,
- the hours during which the waste water works is supervised or manned and days per week of this supervision,
- in the event that this is a review application, state the grounds for which this review application is being made.

Supporting information should form **Attachment N° A.1**

1. Introduction

Castletownshend is a rural village located approximately 86km to the south west of Cork City and approximately 9km to the south east of Skibbereen, in County Cork. The village has been identified by the EPA as a Priority Area where untreated waste water is currently being discharged into the environment.

The objective of the Castletownshend Sewerage Scheme is to provide a new pumping station (PS), gravity sewers, rising main and a wastewater treatment plant (WwTP) with treated effluent outfall capable of providing appropriate preliminary and primary wastewater treatment for the agglomeration. The proposed infrastructure has been designed to cater for the projected load at the 10—year design horizon (531 PE) and water quality impact assessments carried out for the scheme have been based on this 10-year projected load. However, civil and structural components have been designed to cater for future expansion up to the projected load at the 30-year design horizon (950 PE).

At present, there are two main drainage networks in Castletownshend agglomeration. The first network includes most of the old town where wastewater discharges into a stone culvert that runs west to east along Main Street. The culvert also drains surface water and ground water from the area. This wastewater is discharged untreated into Castle Haven, part

of Rosscarbery Bay. The second drainage network serves the Lawn housing estate. The foul sewage in this area flows to a private package treatment plant which discharges into an adjacent percolation area.

Once operational, the proposed Castletownshend Sewerage Scheme will provide an effective wastewater collection network, treatment capacity and treated effluent outfall for current and future agglomeration loads. The proposed scheme will improve water quality in Castle Haven and bring benefits associated with health, amenity, environmental quality as well as facilitating economic and social development for Castletownshend, which has been constrained by the lack of adequate wastewater treatment capacity.

Once operational, the Castletownshend WWTP will eliminate the discharge of untreated wastewater to Castle Haven, thereby having a significantly positive impact on water quality, aligning with objectives set out in the Water Framework Directive (2000/ 60/ EC) and the European Communities Environmental Objectives (Surface Water) Regulations, SI272 of 2009, as amended (Surface Water Regulations).

A Planning Application have been submitted to Cork County Council for the proposed Castletownshend Sewerage Scheme (reference no. 21/00264).

2. The wastewater works and the activities carried out therein

Castletownshend Sewerage Scheme Overview

The proposed Castletownshend Sewerage Scheme will provide a new wastewater treatment plant (WwTP), marine outfall, a new wastewater pumping station with stormwater overflow, approximately 195m of new wastewater rising mains, 540m of new gravity sewers and associated and ancillary infrastructure.

Proposed Wastewater Treatment Plant

The proposed Castletownshend WwTP will provide preliminary and primary treatment designed to cater for a hydraulic and biological load for the 10 year predicted population (531PE). Wastewater will be treated to the discharge standards of 20% reduction cBOD (mg/l) and 50% reduction Suspended Solids (mg/l).

The WwTP will consist of an inlet works (screens and grit removal), stormwater storage tank, primary treatment, sludge storage and site control facilities.

Primary Discharge

The proposed primary discharge, identified as SW001, is treated effluent from the proposed WwTP which will discharge by gravity to Castle Haven via a 290m long marine outfall.

The existing primary discharge, identified as SW004, will be decommissioned and re-used as a pumping station stormwater overflow and emergency overflow.

Secondary Discharges and Stormwater Overflows

The existing primary discharge which discharges from the quay wall (SW004), adjacent to the slipway is to be dropped down to bed level and extended under the sea bed to below the low water mark. This discharge

will be repurposed as a stormwater/emergency overflow for the pumping station. This stormwater/emergency overflow discharge point is identified as SW002.

A storm water overflow will be provided at the WwTP site SW003. Flows in excess of FFT (Flow to full treatment) will overflow to a buffer tank. In the unlikely event that the buffer tank fills to capacity, excess flows will overflow via the WwTP outfall to Castle Haven via the gravity outfall.

A package treatment plant located in the same greenfield as the proposed WwTP which serves the dwellings of The Lawn housing estate and discharges to groundwater via a percolation area (identified as GW001) is to be decommissioned. Under the proposed scheme, effluent from this sub-catchment will be rerouted to the proposed WwTP for treatment, before being discharged via the proposed primary discharge SW001.

There are no existing stormwater overflows or emergency overflows identified within the existing agglomeration.

3. The sources of emissions from the wastewater works

The sources of the emissions from the proposed WwTP are largely associated with the residential population of the agglomeration, as well as domestic type wastewater discharge from commercial sources (shops, offices etc.).

4. The nature and quantities of foreseeable emissions from the waste water works into the receiving aqueous environment as well as identification of significant effects of the emissions on the environment

The proposed WwTP will be designed to cater for a hydraulic and biological load up to a population equivalent (PE) of 531 (Phase 1: 10-year design horizon). Primary treatment of wastewater will be provided, with treatment effluent quality achieving 20% reduction in cBOD (mg/l) and 50% reduction in Suspended Solids (mg/l). Average daily flows of 196.3m³/day (10-year design horizon) are expected at the WwTP. Further detail on estimated quantities of emissions are provided in **Section B.4**.

5. The proposed technology and other techniques for preventing or, where this is not possible, reducing emissions from the waste water works

The proposed WwTP will be designed by the appointed Contractor to ensure the primary discharge of treated effluent achieves a 20% reduction in cBOD (mg/l) and 50% reduction in Suspended Solids (mg/l). The proposed WwTP will provide primary treatment prior to discharging effluent to Castle Haven. This level of treatment is appropriate to ensure compliance with the Urban Waste Water Treatment Directive.

6. Further measures planned to comply with the general principle of the basic obligations of the operator, i.e. that significant pollution is caused

Standard Operating Procedures, Environmental Plans and Site Emergency Plans will be developed by the Contractor prior to the WwTP becoming operational.

7. Measures planned to monitor emissions into the environment

The primary discharge monitoring will be carried out in accordance with the licence requirements.

8. Types of discharge, i.e., continuous, tidal, intermittent

Outfall	Type	Details	Type of Discharge
New			
SW001	Proposed primary discharge	Treated effluent.	Continuous
SW002	PS SWO	Stormwater/ emergency overflow.	Intermittent
SW003	WwTP SWO	Stormwater overflow.	Intermittent
To be Decommissioned			
SW004	Existing primary discharge	Untreated wastewater	Continuous
GW001	Existing secondary discharge.	Package WwTP discharging to ground water.	Continuous

9. The hours during which the waste water works is supervised or manned and days per week of this supervision

At a minimum: 8 hours per day (Monday to Friday) with out of hours cover.

10. In the event that this is a review application, state the grounds for which this review application is being made

This licence review application is intended to replace the existing Wastewater Discharge Licence for the agglomeration (reference D0468-01).

The Agency issued a waste water discharge licence for Castletownshend waste water treatment plant (WWTP) (Authorisation reference D0468-01). Schedule C of the licence requires upgrade of the WWTP and the extension of the primary discharge. Irish Water now requests authorisation to relocate the primary outfall which is a different location to that authorised in the licence.

SECTION B: GENERAL

Advice on completing this section is provided in the accompanying Guidance Note.

B.1 Application Type

Is this a review application?	Yes	No
	X	

If yes, provide the following information:

EPA Licence Register Number	D0468-01
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State the grounds for which this review application is being made:

This licence review application is intended to replace the existing Wastewater Discharge Licence for the agglomeration (reference D0468-01).

This licence review application is intended to replace the existing Wastewater Discharge Licence for the agglomeration (reference D0468-01). Irish Water is proposing a waste water treatment plant upgrade, relocation of the primary discharge in the Rosscarbery Bay and network improvements

B.2 Agglomeration Details

Name of Agglomeration	Castletownshend
------------------------------	-----------------

Provide a drawing detailing the agglomeration to which the licence application relates. It should have the boundary of the agglomeration to which the licence application relates clearly marked in a continuous red line. Please note that the agglomeration boundary shall include all areas serviced by the sewer network and shall include the wastewater treatment plant. All areas of the agglomeration shall be within the agglomeration boundary. The boundary line on the map should not be impinged on by labels or any other graphic insertions.

Attachment B.1 should contain appropriately scaled hardcopy drawings / maps ($\leq A3$) of the agglomeration served by the waste water works showing the boundary clearly marked in red ink. This drawing / map should also be provided as geo-referenced digital drawing files (e.g., ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This geo-referenced digital drawing should be provided to the Agency at the following address: gis@edenireland.ie.

Please see agglomeration plan drawing **IW-10015228-03-02-001** located in **Attachment B.1 Drawing No. 01**.

Applicant's Details

Name and Address for Correspondence

Only application documentation submitted by the applicant and by the nominated person will be deemed to have come from the applicant.

Name*:	Irish Water
Address:	Colvill House

	24-26 Talbot Street,
	Dublin 1.
	D01 NP86
CRO Number:	530363
Tel:	01 8925000
e-mail:	WasteWaterLicensingSouthern@water.ie

**This should be the name of the water services authority in whose ownership or control the waste water works is vested.*

Name*:	Ken Conroy
Address:	Colvill House
	24-26 Talbot Street
	Dublin 1
	D01 NP86
Tel:	01 8925000
e-mail:	WasteWaterLicensingSouthern@water.ie

**This should be the name of person nominated by the water services authority for the purposes of the application.*

B.3 Location of Associated Waste Water Treatment Plant(s)

Give the location of the waste water treatment plant associated with the waste water works, if such a plant or plants exists.

Name*:	Valerie Hannon, Regional Compliance Specialist
Address:	Castletownshend, Co Cork
Grid ref (6E, 6N)	118602E, 31636N
Level of Treatment	Primary
Telephone Number:	N/A
e-mail:	WasteWaterComplianceSouthern@Water.ie

**This should be the name of the person responsible for the supervision of the waste water treatment plant.*

Attachment B.2 should contain appropriately scaled hardcopy drawings / maps ($\leq A3$) of the site boundary and overall site plan, including labelled discharge, monitoring and sampling points.

Please see proposed WwTP site plan layout drawing **IW-10015228-03-02-002** located in **Attachment B.2 Drawing No. 02**.

B.4 Description of Associated Waste Water Treatment Plant(s)

Provide a description of the waste water treatment plant(s), type of process units, level of treatment provided and design capacity (p.e. and flow rates) for the areas of the waste water works where discharges occur.

Proposed Wastewater Treatment Plant

The proposed infrastructure has been designed to cater for the projected load at the 10-year design horizon (531 PE). MEICA (Mechanical, Electrical, Instrumentation Control and Automation) infrastructure will be provided to accommodate the 10-year projected load (531 PE). However, civil and structural components have been designed to cater for future expansion up to the projected load at the 30-year design horizon (950 PE).

- Inlet flow attenuation chamber with overflow discharging to Rosscarbery Bay (IE_SW_110_0000) (SW003);
- Self-contained inlet micro strainer 6mm screen c/w integral hand raked bypass;
- Piped bypass manual raked bar screen 19mm;
- Overflow chamber (FA-FFT) c/w return pumps;
- Stormwater holding tank (77m³) c/w return pumps;
- Flow measurement flume (FFT);
- Flow split chamber;
- 2 no. primary settlement tanks (PST), with provision for a third PST;
- PST de-sludge/ de-scum chamber to primary sludge pumping station;
- Sludge holding tank with supernatant decant tree;
- Supernatant liquors pumping station
- Collection manhole post PST;
- Sample chamber c/w final effluent wash water pumps;
- Potable/ final effluent wash water kiosk c/w break tank and poster pumps.
- MCC and welfare kiosk.

A WWTP layout plan and sections are presented in drawings **IW-10015228-03-02-003A** and **IW-10015228-03-02-003A** located in **Attachment B.2 Drawing No. 3**.

The estimated Dry Weather Flow (DWF) for the 10 year design horizon is:

- **10 Year:** 151.1m³/day;

The estimated Average Daily Flow (ADF) for the 10 year design horizon is:

- **10 Year:** 196.3m³/day;

Effluent from the proposed WWTP is to achieve the following Emission Limit Values (ELVs):

- **cBOD (mg/l):** 20% reduction;
- **Suspended Solids (mg/l):** 50% reduction.

Key process elements at the proposed WwTP are described below:

Inlet Works (Preliminary Treatment)

Preliminary treatment of flows up to Formula A will be provided by a single set of duty inlet screens. Inlet screens shall incorporate a micro-strainer type screen with aperture at 6mm, contained in a prefabricated box complete with coarse bar bypass screen and screenings bin. Package inlet works are acceptable in accordance with Irish Water Specification IW-TEC-700-99-02. The inlet works will incorporate a manual bypass which shall be fitted with a 19mm manually raked bar screen. Screenings shall be discharged into the skip/wheelie bins prior to removal from site. Grit removal will also be provided.

Following preliminary treatment, flows will pass to a rectangular weir chamber which will enable Full Flow to Treatment (FFT) to pass forward for primary treatment, with flows in excess of FFT being diverted to the proposed stormwater storage tank.

Stormwater Management

The stormwater storage tank has been sized to store flows in excess of FFT and up to Formula A for the 30-year design horizon for up to 2 hours. The tank will incorporate return duty/ standby pumps, hydro ejector type mixer and overflow in the event flows exceed the storage capacity. Pumped flows are returned to the FA-FFT flow split chamber during periods of low flow at the inlet works.

The stormwater storage tank will be provided with a gravity overflow pipe which will discharge via the marine outfall (ING E118906, N31691).

Primary Settlement Tanks

2no. proposed Primary Settlement Tanks (PSTs) have been designed to cater for the 10-year design horizon. Screened flows up to FFT shall be split upstream of the PSTs by means of a splitter chamber to create two equal process streams which will feed two independent primary settlement tanks. The settlement tanks shall utilise the 'upward flow' type settlement process. Each settlement tank shall be a prefabricated proprietary unit which allows for approximately 2-3hrs retention time.

Sludge Management

Sludges from the PSTs will flow by gravity to the sludge pumping station, from which they will be pumped to the sludge holding tank. Supernatant shall be taken from the sludge holding tank and recirculated to the flow split chamber prior to the PST via the supernatant return pump station. Thickened solids shall be collected via tanker and transported to the off-site collection facility.

The sludge management system is sized for the 10-year design horizon.

Proposed Marine Outfall

The proposed marine outfall (SW001) will be designed for the 30-year design horizon capable of discharging Formula A flows of 17.5l/s. Effluent will discharge by gravity at an approximate level of -7.32mOD (Malin) via a diffuser consisting of 2 No. 80mm diameter ports (ING E118906, N031691)..

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B.5 (i) Population Equivalent of Agglomeration

The population equivalent (p.e.) of the agglomeration to be, or being, served by the waste water works should be provided and the period in which the population equivalent data was compiled should be indicated.

Actual Population Equivalent	497 PE (based on 2011 Census data)
Design Population Equivalent	10 Year: 531 PE
Data Compiled (Year)	2016
Method of Compilation, e.g., direct measure	Review of registered properties on GeoDirectory, 2011 Census results

B.5 (ii) Pending Development

Where planning permission has been granted for development(s), but development has not been commenced or completed to date, within the boundary

of the agglomeration and this development is being, or is to be, served by the waste water works provide the following information;

- information on the calculated population equivalent (p.e.) to be contributed to the waste water works as a result of those planning permissions granted,
- the percentage of the projected p.e. to be contributed by the non-domestic activities, and
- the ability of the waste water works to accommodate this extra hydraulic and organic loading without posing an environmental risk to the receiving water habitat.

No significant developments identified where planning permission has been granted but development has not been completed.

B.5 (iii) FEES

State the relevant class of waste water discharge as per Column 1 of the Second Schedule, and the appropriate fee as per Columns 2 or 3 of the Third Schedule of the Waste Water Discharges (Authorisation) Regulations 2007 as amended.

Class of waste water discharge	Fee (in €)
Discharges from agglomerations with a population equivalent of: 500 – 1000 PE (Licence Review)	€6,000

B.6 Primary Discharge Point

Provide information on the primary discharge point, as defined in the Waste Water Discharge (Authorisation) Regulations as amended, associated with the waste water works.

New Primary Discharge Point to be Constructed

Type of Discharge	E.g. Diffuser, Lunar Valve, Non-return flap valve etc. Diffuser (2 No. 80mm diameter ports).
Unique Point Code	SW001
Location	Castle Haven, Castletownshend
Grid ref (6E, 6N)	E:118906, N:031691
Source of Emission	WwTP effluent
Monitoring Point Location (6E, 6N)	Final Effluent Chamber (E:118645, N:031614)
Monitoring Frequency	Bimonthly or in accordance with the relevant standards and frequencies as set out in the WWDL.
Composite Sampler Provided	Yes
Receiving Water Name	Rosscarbery Bay
Receiving Water Type	Coastal
Receiving Water WFD Code	IE_SW_110_0000

Attachment B.3 should contain appropriately scaled hardcopy drawings / maps ($\leq A3$) of the primary discharge point, including labelled monitoring and sampling points associated with the discharge point.

Please see primary discharge point drawing **IW-10015228-03-02-004** in **Attachment B.3 Drawing No. 04**.

B.7 Secondary Discharge Point(s)

Provide information on **all** secondary discharge point(s) associated with the waste water works. Please refer to Guidance Note for information on Secondary discharge points.

Existing Secondary Discharge Point(s) to be Decommissioned

Type of Discharge	E.g. Diffuser, Lunar Valve, Non-return flap valve etc. Package treatment plant discharging to groundwater
Unique Point Code	GW001
Location	Castletownshend
Grid ref (6E, 6N)	E:118341 N:031333
Source of Emission	Domestic WwTP effluent
Receiving Water Name	Groundwater
Receiving Water Type	Groundwater
Receiving Water WFD Code	IE_SW_G_085

Please see secondary discharge point drawing **IW-10015228-03-02-004A** in **Attachment B.3 Drawing No. 05**.

B.8 Storm Water Overflow Point(s)

Provide information on **all** storm water overflow point(s) associated with the waste water works.

Existing Primary Discharge Point to be Retained for use as Stormwater/Emergency Overflow (dual function)

Unique Point Code	SW002 Pumping Station
Storm Water Device Location (6E, 6N)	E: 118637, N: 031297
Discharge Location (6E, 6N)	E: 118709, N:031300
Does this Storm Water Overflow comply with the criteria as set out in the DoEHLG 'Procedures and Criteria in Relation to Storm Water Overflows', 1995	Yes
Is this Storm Water Overflow to be decommissioned?	No – newly constructed
Decommissioning Date	N/A

New WWTP Stormwater Overflow

Unique Point Code	SW003 WwTP
Storm Water Device Location (6E,	E: 118599, N: 031625

6N)	
Discharge Location (6E, 6N)	E:118906, N:031691
Does this Storm Water Overflow comply with the criteria as set out in the DoEHLG 'Procedures and Criteria in Relation to Storm Water Overflows', 1995	Yes
Is this Storm Water Overflow to be decommissioned?	No – newly constructed
Decommissioning Date	N/A

Attachment B.5 should contain appropriately scaled hardcopy drawings / maps ($\leq A3$) of storm water overflow point(s) associated with the waste water works, including labelled monitoring and sampling points associated with the discharge point(s).

Please see Stormwater Overflow drawing [IW-10015228-03-02-005](#) provided in **Attachment B.5 Drawing No. 06**.

B.9 Emergency Overflow Point(s)

Provide information on **all** emergency overflow point(s) associated with the waste water works.

Unique Point Code	N/A
Emergency Overflow Device Location (6E, 6N)	N/A
Discharge Location (6E, 6N)	N/A

SW002 is a dual function overflow, as outlined in Section B.8 above.

Attachment B.6 should contain appropriately scaled hardcopy drawings / maps ($\leq A3$) of emergency overflow point(s) associated with the waste water works, including labelled monitoring and sampling points associated with the discharge point(s).

B.10 Leachate

Leachate Accepted at the plant	Yes	No
		X
Quantity of Leachate accepted (m³/annum)	N/A	

B.11 Industrial, Commercial and Trade Inputs

Applicants should provide details of any significant industrial inputs into the waste water treatment works.

Industrial Inputs	Type	Quantity (m³/annum)
N/A	N/A	N/A

B.12 Abstractions

Applicants should submit the following information for each abstraction point (including drinking water) which potentially impacts on, or is potentially impacted by the waste water treatment works. The zone of contribution for the

abstraction point should be delineated and any potential risks from the waste water discharge to the water quality at that abstraction point identified.

Abstraction Code	Abstraction Volume (m ³ /day)	Distance upstream/downstream	Easting (6E-digit GPS Irish National Reference)	Northing (6E-digit GPS Irish National Reference)
N/A	N/A	N/A	N/A	N/A

Note: Attach any risk assessment that may have been carried out in relation to the abstraction point(s) listed.

Attachment B.7 should contain any supporting information.

B.13 Planning Authority and/or Public Authority

Give the name of the planning authority, or authorities, in whose functional area the discharge or discharges take place or are proposed to take place.

Name:	Cork County Council
Address:	Norton House, Skibbereen Co. Cork
Tel:	(028) 40340
e-mail:	westcorkplanninginfo@co.kco.co.ie

Planning Permission relating to the waste water works which is the subject of this application:- (tick as appropriate)

has been obtained		is being processed	X
is not yet applied for		is not required	

Local Authority Planning File Reference No:	21/00264
--	----------

Attachment B.8a should contain **the most recent** planning permission, including a copy of **all** conditions, a copy of the planning inspector's report and where an EIAR was required, copies of any such EIAR and any certification associated with the EIAR, should also be enclosed. Where planning permission is not required for the development, provide reasons, relevant correspondence, etc.

An EIA Screening Report is included in **Attachment B.8a** which concludes that the proposed scheme does not require an EIA.

B.14 Notices and Advertisements

Regulations 10 and 11 of the Waste Water Discharge (Authorisation) Regulations 2007 as amended, require all applicants to advertise the application in a newspaper (within two weeks prior to date of application) and by way of a site notice. See *Guidance Note*.

Attachment B.9 should contain a copy of the site notice and an appropriately scaled drawing ($\leq A3$) showing its location. **The original application must include the original page of the newspaper in which the advertisement was placed.** The relevant page of the newspaper containing the advertisement should be included with the original and one (1) copy of the application.

A copy of the public notice, scaled drawing indicating its location and newspaper notice advertisement are provided in **Attachment B.9 (i), (ii), (iii)**.

B.15 Capital Investment Programme

State whether a programme of works has been prioritised for the development of infrastructure to appropriately collect, convey, treat and discharge waste water from the relevant agglomeration. If a programme of works has been prioritised provide details on funding allocated to the capital project. Provide details on the extent and type of work to be undertaken and the likely timeframes for this work to be completed.

Attachment B.10 should contain the most recent development programme, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

The proposed upgrade works are being carried out under Irish Water's 2020-2024 Investment Plan (Revenue Cycle 3). The envisaged time period for the commencement of the construction works is Q3 2022. It is anticipated that the construction upgrade works will be completed by Q1 2024. This programme is subject to statutory and budgetary approvals

B.16 Significant Correspondence

Provide a summary of any correspondence resulting from a Section 63 notice or a compliance correspondence issued by the Agency in relation to the waste water works under the Environmental Protection Agency Act 1992 as amended, or the Waste Water Discharge (Authorisation) Regulations 2007 as amended.

Attachment B.11 should contain a summary of any relevant correspondence issued in relation to a Section 63 notice/ compliance correspondence.

No correspondence of note in relation to a Section notice.

B.17 Foreshore Act Licences.

Provide a copy of the most recent Foreshore Act licence issued in relation to discharges from the waste water works issued under the Foreshore Act 1933 as amended.

Attachment B.12 should contain the most recent licence issued under the Foreshore Act 1933 as amended, including a copy of **all** conditions attached to the licence and any monitoring returns for the previous 12-month period, if applicable.

Foreshore Licence granted to Cork County Council for previous WWTP outfall following application in 2007.

A foreshore licence application (Ref No FS007258) has been prepared in association with the construction phase of the proposed works which is yet to be granted.

SECTION C: DISCHARGES & MONITORING

Advice on completing this section is provided in the accompanying Guidance Note.

- Give particulars of the source, location, nature, composition, quantity, level and rate of discharges arising from the agglomeration and, where relevant, the period or periods during which such emissions are made or are to be made.

The table below includes details of spill frequencies and volumes along the proposed sewerage network. The grid references below are for the discharge locations.

Discharge Point Code	Discharge Point Type	Receiving Water Body Name	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Frequency of Discharge (days/annum)	Rate of Discharge (m ³ /day @ Average Daily Flow)
New to be Constructed						
SW001	Primary discharge	Rosscarbery Bay (coastal)	118906	031691	365	196.3m ³ /day
SW002	SWO-The Castle PS	Rosscarbery Bay (coastal)	118709	031300	Unknown - intermittent	Unknown - intermittent
SW003	SWO - WwTP	Rosscarbery Bay (coastal)	118906	031691	Unknown - intermittent	Unknown - intermittent
Existing Primary to be Decommissioned						
SW004	Primary discharge	Rosscarbery Bay (coastal)	118671	031291	365	Unknown - continuous
Existing Secondary to be Decommissioned						
GW001	Secondary discharge	Skibbereen Clonakilty (Ground)	118377	31315	365	48.6m ³ /day

- Undertake and provide details of a risk based assessment of the discharge 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. Provide details of the sources of any priority substances detected during the risk based assessment of discharges, that would be likely to give rise to exceedances of the relevant standards set in the European Communities Environmental Objectives (Surface Waters) Regulations 2009 as amended. Provide information on measures that are necessary to reduce or eliminate priority substances in the discharge(s).

A desktop study was carried out by IW as part of the Annual Environmental Report for Castletownshend in 2015 to determine the necessity, if any, for analysis of the existing discharge to comply with the condition in the wastewater discharge licence based on the *Guidance on the Screening for Priority Substances for Waste Water Discharge Licences*, issued by the EPA.

A review of all inputs into the WWTP indicated that there are no industrial type discharges or other discharges with a likelihood of priority substances discharged to the wastewater treatment plant. As the source of the wastewater in Castletownshend is municipal in nature, it is not considered likely that concentrations of priority substances from the agglomeration will impair the environment.

Priority Substances Assessment is included in **Attachment C.1 (a)**

- Details of all discharges of waste water from the agglomeration should be supplied. Tables C.1(a) & (b), should be completed for the primary discharge point from the agglomeration and Tables C.2(a) & (b) should be completed for **each** secondary discharge point, where relevant. Individual Tables must be completed for each discharge point.

2020 sampling data is available for the existing primary discharge. The existing primary discharge is untreated.

Please see completed tables **C.1(a), (b)** and **C.2(a) and (b)** in Annex 1 of this application form for details of the existing primary discharge sampling data.

- Describe the existing or proposed measures, including emergency procedures, to prevent unintended waste water discharges and to minimise the impact on the environment of such discharges.

Irish Water are committed to ensuring that the water services infrastructure operates in a manner that supports the achievement of water body objectives under the Water Framework Directive and our obligations under the Birds and Habitats Directives.

An emergency procedures plan will be developed as part of the process of the design and construction of the new WwTP to ensure unintended waste water discharges and potential impacts on the environment are kept to a minimum.

- Regulation 16(1)(h) of the Waste Water Discharge (Authorisation) Regulations 2007 as amended, requires all applicants to provide the sampling data pertaining to the discharge based on the samples taken in the 12 months preceding the making of the application.

2020 sampling data is available for the existing primary discharge and are provided in **Attachment C.1 b (i)** . The existing primary discharge is untreated.

- Attach associated monitoring data for the receiving water for the 12 months preceding the making of the application. This data should be provided for the primary discharge point and each of the secondary discharge points, if applicable.

Available ambient data (provided by the EPA) associated with monitoring stations within close proximity to the existing and proposed discharge points is provided in **Attachment C.1 b (ii) & (iii)**

- Regulation 16(1)(I) of the regulations requires applicants to give details of compliance with any applicable monitoring requirements and treatment standards.

A monitoring and sampling programme will be undertaken on completion of the new WwTP in accordance with the relevant standards and frequencies as set out by Irish Water and to comply with the Waste Water Discharge Licence.

- For waste water treatment plants with coastal discharges, provide evidence that the end of the discharge pipe is below the mean spring tide low water line.

Drawing No. 7 IW-10015228-03-02-006 (see **Attachment C.1 c (i)**) presents the longitudinal section of the marine outfall and primary discharge point, SW001. This confirms that the outfall will discharge at an invert of approximately -7.32mOD Malin. The drawing also indicates the Mean low water spring tide levels is -1.86m O.D Malin and confirms the proposed long sea outfall lies below this level.

Drawing No. 8 IW-10015228-03-02-006A (see **Attachment C.1 c (ii)**) presents the longitudinal section of the pumping station stormwater overflow outfall, SW002. This confirms that the outfall will discharge at an invert of approximately -3.50mOD Malin. The drawing also indicates the Mean low water spring tide levels is -1.86m O.D Malin and confirms the proposed long sea outfall lies below this level.

Attachment C.1 should contain all supporting information.

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SECTION D: EXISTING ENVIRONMENT & IMPACT OF THE DISCHARGE(S)

Advice on completing this section is provided in the accompanying Guidance Note.

Detailed information is required to enable the Agency to assess the existing receiving environment. This section requires the provision of information on the ambient environmental conditions within the receiving water(s) upstream and downstream of any discharge(s).

Where applicable, information on the state of the existing environment should be addressed in the EIAR. **In such cases, it will suffice for the purposes of this section to provide adequate cross-references to the relevant sections in the EIAR.** If there is no EIAR associated with the development, information on the existing environment should be provided here.

D.1. Assessment of Impact on Receiving Surface or Ground Water

- Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

An assessment of the impact of wastewater discharges from the proposed Castletownshend WwTP outfall has been conducted. A Near Field modelling assessment has been undertaken and is provided in **Attachment D.1** of the application.

The primary discharge from the proposed Castletownshend WwTP will be to Rosscarbery Bay, coastal waterbody, WFD code IE_SW_110_0000. The primary discharge will be via a marine outfall, 125m in length from the high-water mark. The EU Water Framework Directive (WFD) has established a Framework for the protection, protection, improvement and management of surface water and groundwaters. Rosscarbery Bay was not assigned a WFD ecological status for the 2013-2018 cycle. It is however designated as "at risk" of failing to meet its WFD objectives by 2027.

The near field modelling carried out in relation to the proposed works indicate that the predicted concentrations of DIN is below the EQS target level for the 50%ile scenario in the near field and is therefore predicted to be in compliance with the relevant legislation from the modelling results. No further assessment of the impact in the far field is therefore required.

It is evident from the near field modelling results that discharges from the outfall will be in compliance with the relevant legislation. It is therefore not proposed to undertake any far field modelling for Castletownshend.

The main objective of the EU Water Framework Directive (2000/60/EC) is for all Member States to protect and improve water quality in all waters so that a 'good' ecological status is achieved by 2015 or, at the latest, by 2027. Castlehaven forms part of the larger Rosscarbery Bay (WFD code IE_SW_110_0000) waterbody which is designated as "Coastal" under the Water Framework Directive (WFD). This coastal waterbody was not assigned a WFD ecological status for the 2013-2018 cycle. It is however designated as "at risk" of failing to meet its WFD objectives by 2027.

The near field dilution modelling has predicted that treatment levels and outfall arrangements are appropriate, and the operation of the WwTP is compatible with achieving the WFD objectives for the receiving coastal waterbody (Rosscarbery Bay).

The proposed scheme does not cause any of the Environmental Quality Standard thresholds in Rosscarbery Bay to be exceeded and the discharges from the proposed WwTP at Castletownshend are in full compliance with the relevant European Union water regulations.

- Provide summary details and an assessment of the impacts of any existing or proposed emissions on the surface water or ground (aquifers, soils, sub-soils and rock environment), including any impact on environmental media other than those into which the emissions are to be made.

A package treatment plant located in a greenfield to the north of Castletownshend Main St serves the dwellings of The Lawn housing estate. The package treatment plant discharges to groundwater via an adjacent percolation area. This discharge will be decommissioned and the wastewater from the Lawn will be diverted to the proposed WWTP.

There is expected to be an overall improvement in groundwater quality as result of the proposed Castletownshend Sewerage Scheme being in place through the removal of the current discharge to groundwater.

It is not expected that the proposed discharges will have any impact on surface water quality.

- Where a discharge is being made to a small stream, provide evidence that there is a background flow in the stream all year round.

Not applicable.

- Provide details and evaluate any direct or indirect discharges to groundwater that may be associated with the waste water treatment plant in accordance with the EPA Guidance document '*Guidance on the Authorisation of Direct Discharges to Groundwater*' (2014) and the Agency published '*Guidance on the Authorisation of Discharges to Groundwater*' (2011).

Not applicable.

- Describe the existing environment in terms of water quality with particular reference to environmental quality standards or other legislative standards. Give details of any designation under any Council Directive or Regulations that apply in relation to the receiving water.

Waterbody Name	WFD Code	Waterbody Type	WFD Status
Rosscarbery Bay	IE_SW_110_0000	Coastal	At Risk

There are no designated nutrient sensitive areas or candidate nutrient sensitive areas under the Urban Waste Water Treatment Regulations, 2001, as amended in Castle Haven, the part of Rosscarbery Bay where the primary discharge and SWOs are located.

There are no designated bathing or shellfish waters in the area of Castle Haven.

There are SPAs and SACs within a 15km radius of the proposed sewerage scheme. These are as follows:

- Castletownshend Special Area of Conservation (SAC 001547), located within 200m to the north of the proposed WWTP site.
- Moyross Woods Special Area of Conservation (SAC 001070), located c. 5km to the northeast of the proposed development.
- Sheep's Head to Toe Head Special Protection Area (SPA 004156), located c. 5km to the southwest of the proposed development.
- Lough Hyne Reserve and Environs Special Area of Conservation (SAC 000097), located over 9km to the southwest of the proposed development.

Further information on the above SPAs and SACs is provided in **Annex 1-Table D.1** of this application.

- Provide information demonstrating that emissions from the agglomeration or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of the;
 - Water Framework Directive 2000/60/EC,
 - Birds Directive 79/409/EEC,
 - Groundwater Directives 80/68/EEC & 2006/118/EC,
 - Drinking Water Directives 80/778/EEC,
 - Urban Waste Water Treatment Directive 91/271/EEC,
 - Habitats Directive 92/43/EEC,
 - Environmental Liabilities Directive 2004/35/EC,
 - Bathing Water Directive 76/160/EEC,
 - Marine Strategy Framework Directive 2008/56/EC, and
 - European Communities Environmental Objectives (Surface Waters) Regulations 2009 as amended.

The proposed Castletownshend Sewerage Scheme will end the practice of the discharge of untreated wastewater to Castle Haven and groundwater which will have a significant positive impact on surface water and groundwater quality.

The planned works will ensure that the emissions from the agglomeration will comply with and not result in the contravention of the above Directives. Further details on the proposed WwTP are detailed in **Section B.4** of this application.

- Describe, where appropriate, measures for minimising pollution over long distances or in the territory of other states.

No transboundary or long distance effects are envisaged with regards to the proposed development. AA Screening and EIA Screening reports have been compiled and include mitigation measures to minimise impacts on the surrounding environment.

AA Screening report is provided in **Attachment D.2** of this application.

EIA Screening report is provided in **Attachment B.8a** of this application.

- This section should also contain full details of any modelling of discharges from the agglomeration. Full details of the assessment and any other relevant information on the receiving environment should be submitted as **Attachment D.1**.

An assessment of the impact of wastewater discharges from the proposed Castletownshend Sewerage Scheme has been conducted. The study is entitled 'Castletownshend Near Field Modelling' and includes a near field modelling assessment in **Attachment D.1 (i)** of the report.

The purpose of the near field modelling report was to assess compliance of relevant water quality parameters (as presented in Section 2.1 of the modelling report) with environmental quality standard threshold levels and adhere with relevant EU water quality Directives.

The near field modelling carried out in relation to the proposed works indicate that the predicted concentrations of DIN is below the EQS target levels for the 50%ile scenario in the near field and is therefore predicted to be in compliance with the relevant legislation from the modelling results. No further assessment of the impact in the far field is therefore required.

It is evident from the near field modelling results that discharges from the outfall will be in compliance with the relevant legislation. It is therefore not proposed to undertake any far field modelling for Castletownshend.

The main objective of the EU Water Framework Directive (2000/60/EC) is for all Member States to protect and improve water quality in all waters so that a 'good' ecological status is achieved by 2015 or, at the latest, by 2027. Castle Haven forms part of the larger Rosscarbery Bay (WFD code IE_SW_110_0000) waterbody which is designated as "Coastal" under the Water Framework Directive (WFD). This coastal waterbody was not assigned a WFD ecological status for the 2013-2018 cycle. It is however designated as "at risk" of failing to meet its WFD objectives by 2027.

The near field dilution modelling has predicted that treatment levels and outfall arrangements are appropriate, and the operation of the WwTP is compatible with achieving the WFD objectives for the receiving coastal waterbody (Rosscarbery Bay).

D.2. Appropriate Assessment

- Where applicable, provide a copy of any screening for Appropriate Assessment report and Natura Impact Statement (NIS) that was prepared for consideration by any planning/public authority as defined in Regulation 2(1) of the European Communities (Birds and Natural Habitats) Regulations 2011 as amended, in relation to the waste water works. Where a determination that an Appropriate Assessment is required has been made by any planning/public authority in relation to the waste water works, a copy of that determination and any screening report and Natura Impact Statement (NIS), and any supplementary information furnished in relation to any such report or statement, which has been provided to the planning/public authority for the purposes of the Appropriate Assessment shall be included.

Appropriate Assessment screening has been submitted to Cork County Council as part of the planning submission for the proposed Castletownshend Sewerage Scheme. A determination on the application has not yet been confirmed by Cork Council. A copy of the AA Screening report is provided in **Attachment D.2**.

- Undertake a screening for Appropriate Assessment and submit a copy of the screening report in Attachment D.2.

Appropriate Assessment screening has taken place and a copy of the report is provided in **Attachment D.2**.

- Complete Table D.1 providing details of all European Sites considered as part of the screening for appropriate assessment.

Please see completed **Table D.1**, which can be found in **Annex 1** of this application.

- Based on the information provided above, indicate whether the discharge(s), individually or in combination with other plans or projects, is likely to have a significant effect on a European Site(s), in view of best scientific knowledge and the conservation objectives of the site(s). Provide reasons for this determination.

The AA Screening report concludes that:

"Having assessed all relevant potential effects of the proposed development, it is considered that all potential impacts on the Conservation Objectives and integrity of Natura 2000 sites can be screened out. It is therefore considered that it is not necessary to proceed to Natura Impact Statement."

- Where it cannot be excluded, on the basis of objective scientific information, following screening for Appropriate Assessment, that the discharge(s), either individually or in combination with other plans or projects, will have a significant effect on a European Site, provide a Natura Impact Statement (in Attachment D.2), as defined in Regulation 2(1) of the European Communities (Birds and Natural Habitats) Regulations 2011 as amended.

Appropriate Assessment screening has been submitted to Cork County Council as part of the planning submission for the proposed Castletownshend Sewerage Scheme. The Screening for AA concluded that a Natura Impact Statement is not required for the proposed Castletownshend Sewerage Scheme. A determination on the application has not yet been confirmed by Cork County Council.

Attachment D.2 should contain an Appropriate Assessment screening report and where applicable a Natura Impact Statement.

D.3. Programme of improvements

- Provide details on a programme of improvements to ensure that discharges from the agglomeration will not result in significant environmental pollution and details to ensure that all emissions from the agglomeration will comply with, or will not result in the contravention of any national or European legislation.

There are no additional investments planned beyond the current work programme, further details of which are included in **Section B.4** of this application.

Attachment D.3 should contain the most recent programme of improvements, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

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SECTION E: DECLARATION

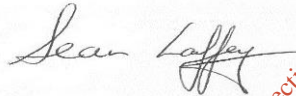
Declaration

I hereby make an application for a waste water discharge licence/revised licence, pursuant to the provisions of the Waste Water Discharge (Authorisation) Regulations 2007 as amended.

I certify that the information given in this application is truthful, accurate and complete.

I give consent to the EPA to copy this application for its own use and to make it available for inspection and copying by the public, both in the form of paper files available for inspection at EPA and Irish Water offices, and via the EPA's website.

This consent relates to this application itself and to any further information or submission, whether provided by me as the Applicant or any person acting on the Applicant's behalf.



Signed by : _____
(on behalf of the organisation)

Date : 15th October 2021

Print name: Sean Laffey

Position in organisation: Head of Asset Management

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ANNEX 1: TABLES/ATTACHMENTS

Table C.1(a): Emissions to Surface/Ground Water – Primary Discharge Point

Discharge Point Code	Existing primary discharge SW004 (Untreated)
Normal Volume Emitted/day (m ³ /day)	NA
Maximum Volume Emitted/day (m ³ /day)	NA
Period of Emission (avg)	Sampling frequency varies/ 6 samples per annum

Table C.1(b): Emissions to Surface/Ground Water – Characteristics of the Emission - Primary Discharge Point

Substance	As Discharged		
	Unit of Measurement	Sampling Method	Max Daily Average*
pH	pH	N/A	N/A
Temperature	°C	N/A	N/A
Suspended Solids	mg/l	Grab	19
Total Ammonia (as N)	mg/l	N/A	N/A
Carbonaceous Biochemical Oxygen Demand	mg/l	Grab	8
Chemical Oxygen Demand - Cr	mg/l	Grab	31
Total Nitrogen (as N)	mg/l	N/A	N/A
Total Phosphorus (as P)	mg/l	N/A	N/A
Orthophosphate (as P) - Unspecified	mg/l	N/A	N/A

* Max daily average refers to the maximum concentration of the relevant substance recorded from composite sample results during the monitoring period.

Table C.2(a): Emissions to Surface/Ground Water – Secondary Discharge Point
(1 table per discharge point)

Discharge Point Code	Not applicable.
Normal Volume Emitted/day (m ³ /day)	N/A
Maximum Volume Emitted/day (m ³ /day)	N/A
Period of Emission (avg)	N/A

Table C.2(b): Emissions to Surface/Ground Water – Characteristics of the Emission - Secondary Discharge Point
(1 table per discharge point)

Substance	As Discharged		
	Unit of Measurement	Sampling Method	Max Daily Average*
pH	pH	N/A	N/A
Temperature	°C	N/A	N/A
Suspended Solids	mg/l	N/A	N/A
Total Ammonia (as N)	mg/l	N/A	N/A
Carbonaceous Biochemical Oxygen Demand	mg/l	N/A	N/A
Chemical Oxygen Demand - Cr	mg/l	N/A	N/A
Total Nitrogen (as N)	mg/l	N/A	N/A
Total Phosphorus (as P)	mg/l	N/A	N/A
Orthophosphate (as P) - Unspecified	mg/l	N/A	N/A

* Max daily average refers to the maximum concentration of the relevant substance recorded from composite sample results during the monitoring period.

Table D.1: List of European Sites assessed, their associated qualifying interests and conservation objectives.

	European Site Name & Site Code	Distance/ Direction of European Site from discharge(s) (Distance from closest section of proposed development)	Qualifying interests List all habitats and species listed in the Conservation Objectives document on the NPWS website. Denote priority habitats with an *. For species list the English Name & <i>Latin Name</i> .	Conservation objectives Cite the most recent Conservation Objectives document on the NPWS website for the European Site.
1	Castletownshend SAC (Site Code 001547)	0.2km	<ul style="list-style-type: none"> • Killarney Fern (<i>Trichomanes Speciosum</i>) [1421] 	NPWS (2020) conservation objectives for Castletownshend SAC [001547]. Generic Version Department of Culture, Heritage and the Gaeltacht.
2	Moyross Woods SAC (Site Code 001070)	5.0km	<ul style="list-style-type: none"> • Killarney Fern (<i>Trichomanes Speciosum</i>) [1421] 	NPWS (2020) Conservation objectives for Moyross Wood SAC [001070]. Generic Version Department of Culture, Heritage and the Gaeltacht.
3	Sheep's Head to Toe Head SPA (Site Code 004156)	5.0km	<ul style="list-style-type: none"> • Peregrine (<i>Falco Peregrinus</i>) [A103] • Chough (<i>Pyrrhocorax Pyrrhocorax</i>) [A346] 	NPWS (2020) Conservation objectives for Sheep's Head to Toe Head SPA [004156]. Generic Version Department of Culture, Heritage and the Gaeltacht.
4	Lough Hyne Reserve and Environs SAC (Site Code 000097)	9km	<ul style="list-style-type: none"> • Large shallow inlets and bays [1160] • Reefs [1170] • Submerged or partially submerged sae caves 	NPWS (2014) Conservation Objectives: Lough Hyne Reserve and Environs SAC 000097. Version 1. National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs.

ANNEX 2: Licence Application Checklist

Section	Attachment Number	Document	Attached by Applicant ✓
Non-Technical Summary	A.1	Non-technical summary Section A of application form	✓
General	B.1	Agglomeration boundary map Attachment B.1 Drawing No. 01: Agglomeration Plan	✓
	B.2	Site boundary and overall site plan Attachment B.2 Drawing No. 02: WwTP Site Plan Layout & Site Boundary	✓
	B.3	Primary discharge point location map Attachment B.3 Drawing No. 03: Primary Discharge Point	✓
	B.4	Secondary discharge point location map(s) Drawing No. 05: Secondary Discharge Point (to be decommissioned)	✓
	B.5	Storm Water Overflow location map(s) Attachment B.5 Drawing No. 06: Storm Water Overflow	✓
	B.6	Emergency Overflow location map(s) Attachment B.5 Drawing No. 06: Storm Water Overflow	✓
	B.7	Supporting information on Abstractions Not Applicable	N/A
	B.8	Most recent planning permission, including all conditions, the planning inspectors report and an EIAR where required. Planning submitted yet to be granted. Attachment B.8 (a) EIA Screening Report	✓
	B.9	A copy of the site notice and newspaper notice Attachment B.9 (i) Site Notice Attachment B.9 (ii) Site Notice Location	✓

		Attachment B.9 (iii) Newspaper Notice	
	B.10	Most recent Capital Investment Programme, including a copy of any approved funding Not Applicable	N/A
	B.11	Section 63 Notices/ compliance correspondence Not Applicable	N/A
	B.12	Most recent licence issued under the Foreshore Act 1933 as amended yet to be granted.	X
Discharges & Monitoring	C.1	Supporting information on Discharges and Monitoring Attachment C.1 (a) Priority Substances Assessment Attachment C.1 (b) (i) Effluent Monitoring Results Attachment C.1 (b) (ii) Ambient Monitoring Locations Attachment C.1 (b) (iii) Ambient Monitoring Results Attachment C.1 (c) (i) Drawing No. 07: Longitudinal section of the marine outfall and primary discharge point Attachment C.1 (c) (ii) Drawing No. 08 : Longitudinal section of the pumping station stormwater overflow outfall	✓
Existing Environment & Impact of the Discharge(s)	D.1	All supporting information on the assessment of the impact on the receiving waters Attachment D.1 Near Field Modelling Assessment	✓
	D.2	Appropriate Assessment screening report and where applicable a Natura Impact Statement Attachment D.2 AA Screening Report	✓
	D.3	Most recent Programme of Improvements Not Applicable	N/A

ANNEX 3: Compliance with Waste Water Discharge (Authorisation) Regulations 2007 as amended

- Regulation 16 of the Waste Water Discharge (Authorisation) Regulations 2007 as amended sets out the information which must, in all cases, accompany a discharge licence application. Applicants should ensure that the application fully complies with the legal requirements of Regulation 16 of the 2007 Regulations as amended.
- Regulation 16(3) states that an application for a licence shall be accompanied by such fee as is appropriate having regard to the provisions of Regulations 38 and 39.

Has the appropriate fee been paid?	Yes/No	Amount

- Regulation 16(4) states that an original application shall be accompanied by 2 copies of it and of all accompanying documents and particulars as required under Regulation 16(3) in hardcopy or in an electronic or other format as specified by the Agency.

The application shall include a signed original, 1 hardcopy of the application and 2 CD versions of the application (PDF files).

Has this documentation been provided?	Yes	No

- Regulation 17 states that where a treatment plant associated with the relevant waste water works is or has been subject to the European Communities (Environmental Impact Assessment) Regulations 1989 to 2001, in addition to compliance with the requirements of Regulation 16, an application in respect of the relevant discharge shall be accompanied by a copy of an environmental impact statement and approval in accordance with the Act of 2000 in respect of the said development and may be submitted in an electronic or other format specified by the Agency.

Where applicable, the application shall be accompanied by 2 hardcopies of the EIAR and 2 CD versions of the EIAR (PDF files).

Has this documentation been provided where applicable?	Yes	No