



CORK COUNTY COUNCIL

WESTERN DIVISION

WATER SERVICES

Courthouse, Skibbereen, Co. Cork

**APPLICATION FOR WASTE
WATER DISCHARGE LICENCE
CASTLETOWNBERE**

**Application Form
28th February 2009**



WASTE Application Form



CORK COUNTY COUNCIL

WESTERN DIVISION

WATER SERVICES

Courthouse, Skibbereen, Co. Cork

**Re: Waste Water Discharge Licence Application for the Agglomeration of
Castletownbere**

Dear Sir / Madam,

Please find enclosed Cork County Council's Waste Water Discharge Licence Application for the agglomeration of Castletownbere.

The following documentation is enclosed:

- 1 Nr. signed original in hardcopy
- 1 Nr. copy in hardcopy
- 2 Nr. CD-ROM with all documentation in electronic searchable PDF (OCR'd format)
- 1 Nr. CD-ROM with GIS Data, Tabular Data

The content of the electronic files is a true copy of the original hardcopy.



Declan Groarke
Senior Executive Engineer

This is a draft document and is subject to revision.



Waste Water Discharge Licence Application Form

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EPA Ref. N^o:
(Office use only)

Environmental Protection Agency
PO Box 3000, Johnstown Castle Estate, Co. Wexford
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. 1.	11/10/07	N/A	
V. 2.	18/10/07	Inclusion of a Note 1 superscript for Orthophosphate in Tables D.1(i)(b) & D.1(ii)(b).	To highlight the requirement for filtered samples in measurement of O-Phosphate for waste water discharges.
V.3.	13/11/07	Amend wording of Section F.2 to include 'abstraction'. Amend wording of Checklist in Annex to reflect wording of Regulation 16(5) of S.I. No. 684 of 2007. Inclusion of unique point code for each point of discharge and storm water overflow.	To accurately reflect the information required To accurately reflect the Regulations and to obtain the application documentation in appropriate format. To aid in cross-referencing of application documentation.
V.4	18/04/08	Inclusion of requirement to provide name of agglomeration to which the application relates. Amend wording of Section B.7. (iii) to reflect the title of Water Services Authority. Addition of new Section B.9 (ii) in order to obtain information on developments yet to contribute to the waste water works. Addition of sub-sections C.1.1 & C.1.2 in order to clarify information required for Storm water overflow and pumping stations within the works. Amend Section D.1 to include a requirement for monitoring data for influent	To accurately determine the agglomeration to be licensed. To accurately reflect the Water Services Act, 2007. To obtain accurate population equivalent figures for the agglomeration. To obtain accurate information on design and spill frequency from these structures. To acquire information on the population loading onto the plant and to provide information on performance rates within

		to waste water treatment plants, where available. Amend wording of Section E.1 to request information on composite sampling/flow monitoring provisions.	the plant. To acquire accurate information on the sampling and monitoring provisions for discharges from the works.
V.5	07/07/2008	Amend wording of B.7 (iii) to include reference to Water Services Authorities. Amend Section G.1 to include Shellfish Waters Directive.	To accurately reflect the Water Services Act, 2007 requirements.
V.6	26/08/2008	Amendments to Section D to reflect new web based reporting. Amended requirements for reporting on discharges under E.1 Waste Water Discharge Frequency and Quantities. Amendment to Section F.1 to specify the type of monitoring and reporting required for the background environment. Removal of Annexes to application form.	To clarify the reporting requirements. To streamline reporting requirements. To clarify the reporting requirements for ambient monitoring. To reflect the new web based reporting requirements.

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

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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 (S.I. No. 684 of 2007) 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 www.epa.ie.

A valid application for a Waste Water Discharge Licence must contain the information prescribed in the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007). Regulation 16 of the Regulations sets out the statutory requirements for information to accompany a licence application. The 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. While every effort has been made to ensure the accuracy of the material contained in the 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 (S.I. No. 684 of 2007) 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 applicant, not being the local authority in whose functional area the relevant waste water discharge, or discharges, to which the relevant application relates, takes place or is to take place, must also notify the relevant Local Authority, in writing, of their intention to apply.

An application for a licence must be submitted on the appropriate form (available from the Agency) 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.

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 (S.I. No. 684 of 2007).

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. This description should also indicate the hours during which the waste water works is supervised or manned and days per week of this supervision.

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.

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

Description of the Wastewater Works and the Activities Carried out therein.

Castletownbere is located on the northern shore of Bantry Bay and is the principle town of the Beara Peninsula. Castletownbere is the largest white fish port in Ireland and also serves as a key support settlement, service and tourist centre.

The Existing Scheme

The Collection System

The town of Castletownbere has a number of independent collection systems which collect wastewater within and around the town. There are 5 No. septic tanks under the control of the County Council and 1 No. collection network which discharges directly into the harbour.

Dinish Island also has a treatment facility which is under the control of the Department of Marine and Natural Resources and licensed by Cork County Council. This treatment facility is solely used for the Island and its fish factories and therefore is not considered as part of the Castletownbere Agglomeration for this License Application.

Storm Sewer

A separate storm water sewer runs through the town centre which also discharges into the harbour west of the towns primary outfall SW01.

Existing Septic Tanks

The first of the five septic tanks serving the town and surrounds is located at Brandyhall Bridge (volume 14m³) and serves a small number of houses on the Glengarriff Road. The second is located within the grounds of the Hospital (volume 45m³) on the Glengarriff Road and serves the hospital and a number of small housing estates. The third and most recent addition to the Castletownbere sewerage scheme is located south west of the harbour in Cametringane (volume 23m³). This tank serves approximately 8 houses at Cametringane. These three septic tanks discharge directly to Castletownbere Harbour.

The two other septic tanks under the control of Cork County Council are serving two small housing estates at Drom North and Foildarrig. Both have volumes of 7m³ and serve 6 no. houses in each case. These two septic tanks discharge to soakpits adjacent to the septic tanks.

The secondary school, hotel and housing estate in Cametringane have their own septic tanks/treatment systems to serve their properties. There is a discharge point at Came Point which is connected with the housing estate. These systems are private and currently not operated by Cork County Council.

The location of the existing outfalls from the septic tanks are shown in attachment B2.

The main and oldest section of the Sewerage Scheme, parts of which were constructed in the early 1890's, runs from the Allihies Road through the town centre takes in the national school, has been extended to include a small housing estate in Derreenataggart Middle and also serves a portion of the Eyerics Road. The effluent in this collection network outfalls to the inner harbour and does not receive any treatment.

The source of Emissions from the Wastewater Works

The source of emissions from the town are considered domestic and the amount of industrial wastewater would be considered negligible.

A preliminary Report is currently being carried out by Tobin Consulting Engineers on Castletownbere Sewerage Scheme. It is proposed that a new treatment plant will be built to upgrade the capacity and the quality of the treatment currently in Castletownbere.

The existing pe is currently estimated at 1300 with a consequent dry weather flow of 292.5 m³ per day.

The design PE for the proposed WWTP is 4000pe.

“For the purposes of this application the relevant pe chosen for the licence period is 2,000 being the pe estimated at end of that period.”

The nature and quantities of foreseeable emissions from the wastewater works into the receiving aqueous environment as well as identification of significant effects of the emission to the environment.

Sewage in Castletownbere is either treated via septic tanks or does not receive any treatment. The main function of a septic tank is to act as a primary settlement tank removing some of the BOD and the majority of the suspended solids. Sewage currently treated via septic tanks are assumed to receive primary treatment prior to discharge. The EPA Document "Treatment Systems for Small Communities, Business, Leisure Centres and Hotels" (EPA 1999) details wastewater inflow characteristics for domestic and commercial sources.

The EPA publication 'Primary, secondary and tertiary treatment' (EPA 1997) estimates that typically 50-70% of suspended solids are removed in primary settlement tanks; BOD is reduced by 20-50% and the bacterial count by 25-75%. According to the National Urban Waste Water Study (NUWWS) the reduction to the BOD load would be approximately 30% and approximately 50% to the Suspended Solids load.

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

A new Wastewater Treatment Plant is proposed for Castletownbere and is included in the WSIP 2007-2009 funding.

Likely Timeframes for the Works:

1. **Design period + Receipt of Tenders – December 2012**
2. **Start construction – June 2013**
3. **Completion of Works – June 2014**

Further measures planned to comply with the general principle of the basic obligations of the operator i.e. that no significant pollution is caused.

The complete process will be upgraded in the likely timeframe stated above with the construction of a new WWTP. The treatment capacity, the discharge quality and control systems will be improved to ensure that no significant pollution is caused.

All wastewater treatment processes for use with municipal waste involve the use of biological processes to eliminate organic pollution in the receiving waters. The primary objective of biological wastewater treatment processes is the conversion of biodegradable organic materials into microbial biomass, which can be separated by appropriate solids/liquid separation processes, such as sedimentation, flotation etc.

A typical plant would consist in this case of screening, aeration, settlement with return of sludge and sludge treatment and removal.

Measures planned to monitor emissions into the environment

The emissions from the existing septic tanks can be monitored. Samples were taken from a number of septic tanks, results of which are attached to this application.

It is proposed to sample once yearly the influent to and effluent from the septic tanks as well as the primary discharge from the untreated outfall.

In the upgrade WWTP, monitoring and sampling of the emissions will be provided in inlet and outlet works. The sampling will consist of a composite sample and all emissions will be measured and can be sampled before discharge.

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SECTION B: GENERAL

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

B.1 Agglomeration Details

Name of Agglomeration: Castletownbere

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. 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 red ink.

Name*:	Cork County Council
Address:	Water Services (Western Division)
	Courthouse
	Skibbereen
	Co. Cork
Tel:	028-21299
Fax:	028-21995
e-mail:	declan.groarke@corkcoco.ie

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

*Where an application is being submitted on behalf of more than one water services authority the details provided in Section B.1 shall be that of the lead water services authority.

Name*:	Declan Groarke
Address:	Cork County Council
	Courthouse
	Skibbereen
	Co. Cork
Tel:	028-21299
Fax:	028-21995
e-mail:	declan.groarke@corkcoco.ie

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

Co-Applicant's Details

Name*:	Not Applicable
Address:	
Tel:	
Fax:	
e-mail:	

*This should be the name of a water services authority, other than the lead authority, where multiple authorities are the subject of a waste water discharge (authorisation) licence application.

Design, Build & Operate Contractor Details

Name*:	Not Applicable
Address:	
Tel:	

Fax:
e-mail:

*Where a design, build & operate contract is in place for the waste water works, or any part thereof, the details of the contractor should be provided.

Attachment B.1 should contain appropriately scaled drawings / maps ($\leq A3$) of the agglomeration served by the waste water works showing the boundary clearly marked in red ink. These drawings / maps 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. These drawings should be provided to the Agency on a separate CD-Rom containing sections B.2, B.3, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	√	

B.2 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.

Existing Wastewater Treatment Plants

Septic Tank No. 1 – Brandyhall Bridge

Name*:	Michael O'Driscoll
Address:	Foildarrig
	Castletownbere
	Co. Cork
Grid ref (6E, 6N)	E:068344, N:046344
Level of Treatment	Primary
Primary Telephone:	027 70017
Fax:	027 70497
e-mail:	michael.odriscoll@corkcoco.ie

Septic Tank No. 2 - Hospital

Name*:	Michael O'Driscoll
Address:	Foildarrig
	Castletownbere
	Co. Cork
Grid ref (6E, 6N)	E:068614, N:046024
Level of Treatment	Primary
Primary Telephone:	027 70017
Fax:	027 70497
e-mail:	michael.odriscoll@corkcoco.ie

Septic Tank No. 3 - Cametringane

Name*:	Michael O'Driscoll
Address:	Foildarrig
	Castletownbere
	Co. Cork
Grid ref (6E, 6N)	E:067654, N:045745
Level of Treatment	Primary
Primary Telephone:	027 70017
Fax:	027 70497
e-mail:	michael.odriscoll@corkcoco.ie

Septic Tank No. 4 – Drom North

Name*:	Michael O'Driscoll
Address:	Foildarrig
	Castletownbere
	Co. Cork
Grid ref (6E, 6N)	E:067462, N:045370
Level of Treatment	Primary
Primary Telephone:	027 70017
Fax:	027 70497
e-mail:	michael.odriscoll@corkcoco.ie

Septic Tank No. 5 - Foildarrig

Name*:	Michael O'Driscoll
Address:	Foildarrig
	Castletownbere
	Co. Cork
Grid ref (6E, 6N)	E:67996, N:46481
Level of Treatment	Primary
Primary Telephone:	027 70017
Fax:	027 70497
e-mail:	michael.odriscoll@corkcoco.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 drawings / maps ($\leq A3$) of the site boundary and overall site plan, including labelled discharge, monitoring and sampling points. These drawings / maps 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. These drawings should be provided to the Agency on a separate CD-Rom containing sections B.1, B.3, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	√	

B.3 Location of Primary Discharge Point

Give the location of the primary discharge point, as defined in the Waste Water Discharge (Authorisation) Regulation, associated with the waste water works.

Existing Discharge Point

Type of Discharge	Outfall Pipe
Unique Point Code	SW01 CAST
Location	Castletownbere Harbour
Grid ref (6E, 6N)	E:68028 N:46138

Attachment B.3 should contain appropriately scaled drawings / maps ($\leq A3$) of the discharge point, including labelled monitoring and sampling points associated with the discharge point. These drawings / maps 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 data should be provided to the Agency on a separate CD-Rom containing the

drawings and tabular data requested in sections B.1, B.2, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	√	

B.4 Location of Secondary Discharge Point(s)

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

Type of Discharge	Outfall Pipe
Unique Point Code	SW02 CAST
Location	Castletownbere Harbour
Grid ref (6E, 6N)	E:68344 N:46342

Type of Discharge	Outfall Pipe
Unique Point Code	SW03 CAST
Location	Castletownbere Harbour
Grid ref (6E, 6N)	E:68614 N:46024

Type of Discharge	Outfall Pipe
Unique Point Code	SW04 CAST
Location	Castletownbere Harbour
Grid ref (6E, 6N)	E:67654 N:45745

Type of Discharge	Outfall Pipe
Unique Point Code	GW01 CAST
Location	Ground
Grid ref (6E, 6N)	E:67462 N:45370

Type of Discharge	Outfall Pipe
Unique Point Code	GW02 CAST
Location	Ground
Grid ref (6E, 6N)	E:67997 N:46481

Attachment B.4 should contain appropriately scaled drawings / maps ($\leq A3$) of the discharge point(s), including labelled monitoring and sampling points associated with the discharge point(s). These drawings / maps 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 data should be provided to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	√	

B.5 Location of Storm Water Overflow Point(s)

Give the location of **all** storm water overflow point(s) associated with the waste water works.

Existing Storm Water Overflows

Type of Discharge	Not Applicable
Unique Point Code	
Location	
Grid ref (6E, 6N)	

Attachment B.5 should contain appropriately scaled 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). These drawings / maps 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 data should be provided to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
		√

B.6 Planning 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:	Planning Department
	Norton House
	Skibbereen
	Co. Cork
Tel:	028-40340
Fax:	028-21660
e-mail:	

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

<i>has been obtained</i>		<i>is being processed</i>	
<i>is not yet applied for</i>	√	<i>is not required</i>	

Local Authority Planning File Reference N^o:	
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Attachment B.6 should contain *the most recent* planning permission, including a copy of *all* conditions, and where an EIS was required, copies of any such EIS and any certification associated with the EIS, should also be enclosed. Where planning permission is not required for the development, provide reasons, relevant correspondence, etc.

Attachment included	Yes	No
		√

B.7 Other Authorities

B.7 (i) Shannon Free Airport Development Company (SFADCo.) area

The applicant should tick the appropriate box below to identify whether the discharge or discharges are located within the Shannon Free Airport Development Company (SFADCo.) area.

Attachment B.7(i) should contain details of any or all discharges located within the SFADCo. area.

Within the SFADCo Area	Yes	No
		√

B.7 (ii) Health Services Executive Region

The applicant should indicate the **Health Services Executive Region** where the discharge or discharges are or will be located.

Name:	Health Service Executive
Address:	Area Headquarters
	Hospital Grounds
	Castletownbere
Tel:	
Fax:	
e-mail:	-

B.7 (iii) Other Relevant Water Services Authorities

Regulation 13 of the Waste Water Discharge (Authorisation) Regulations, 2007 requires all applicants, not being the water services authority in whose functional area the relevant waste water discharge or discharges, to which the relevant application relates, takes place or is to take place, to notify the relevant water services authority of the said application.

Name:	Not Applicable
Address:	
Tel:	
Fax:	
e-mail:	

Relevant Authority Notified	Yes	No
		√

Attachment B.7(iii) should contain a copy of the notice issued to the relevant local authority.

Attachment included	Yes	No
		√

B.8 Notices and Advertisements

Regulations 10 and 11 of the Waste Water Discharge (Authorisation) Regulations, 2007 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.8 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.

Attachment included	Yes	No

B.9 (i) Population Equivalent of Agglomeration

TABLE B.9.1 POPULATION EQUIVALENT OF AGGLOMERATION

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

Population

Population Equivalent	1300
Data Compiled (Year)	2009
Method	Geodirectory & Census

“For the purposes of this application the relevant pe chosen for the licence period is 2,000 being the pe estimated at end of that period.”

B.9 (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.

Method of Calculating Pending Developments

Planning Permission has been granted for a small number of dwellings and apartment conversions in the town which will be entering the public sewer. It is estimated that approx 30 pe extra will be entering the public sewer. There are a small number of small housing estates which when constructed will be served by their own wastewater treatment plants. These small individual WWTP's will be decommissioned when the new WWTP is constructed.

The 2006 Census was used to determine the occupancy rate per house for the permanent residential addresses. The Cork County rural average occupancy in the 2006 Census was 2.96 persons per house.

It is considered that all additional PE from pending developments are from domestic activities.

At present the treatment in the town is limited to primary treatment or no treatment what so ever. A new wastewater treatment plant is proposed for the town of Castletownbere and this new plant will be able to cater for the additional loading.

B.9 (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, S.I. No. 684 of 2007.

Class of waste water discharge	Fee (in €)
Discharges from agglomerations with a population equivalent of 1,001 to 2,000	15,000

Appropriate Fee Included	Yes	No
	√	

B.10 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, (local or national), 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.

Castletownbere Sewerage Scheme is included in the 2007-2009 WSIP.

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.

Attachment included	Yes	No
	√	

B.11 Significant Correspondence

Provide a summary of any correspondence resulting from a Section 63 notice issued by the Agency in relation to the waste water works under the Environmental Protection Agency Acts, 1992 and 2003, as amended by Section 13 of Protection of the Environment Act, 2003.

Not applicable

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

Attachment included	Yes	No
		√

B.12 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.

Foreshore Licence

The following is the Foreshore Licence relating to Castletownbere Sewerage Scheme.

Existing Septic Tank and Collection System:

Foreshore Licences File Reference MS518/367 Dated 26/05/1989

Laying, using and maintaining a sewage effluent outfall pipe, Castletownbere.

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

Attachment included	Yes	No
		√

SECTION C: INFRASTRUCTURE & OPERATION

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

C.1 Operational Information Requirements

Provide a description of the plant, process and design capacity for the areas of the waste water works where discharges occur, to include a copy of such plans, drawings or maps, (site plans and location maps, process flow diagrams), and such other particulars, reports and supporting documentation as are necessary to describe all aspects of the area of the waste water works discharging to the aquatic environment. Maps and drawings must be no larger than A3 size.

C.1.1 Storm Water Overflows

For each storm water overflow within the waste water works the following information shall be submitted:

- An assessment to determine compliance with the criteria for storm water overflows, as set out in the DoEHLG 'Procedures and Criteria in Relation to Storm Water Overflows', 1995 and any other guidance as may be specified by the Agency, and
- Identify whether any of the storm water overflows are to be decommissioned, and identify a date by which these overflows will cease, if applicable.

C.1.2 Pumping Stations

For each pump station operating within the waste water works, provide details of the following:

- Number of duty and standby pumps at each pump station;
- The measures taken in the event of power failure;
- Details of storage capacity at each pump station;
- Frequency and duration of activation of emergency overflow to receiving waters. Clarify the location where such discharges enter the receiving waters.

Description of the existing plant process and design capacity:

The town of Castletownbere has a number of independent collection systems which collect wastewater within and around the town. There are 5 No. septic tanks with associated collection networks under the control of the County Council as well as 1 No. collection network which discharges directly into the harbour and does not receive any treatment prior to discharge.

The original collection network in Castletownbere was constructed in the 1890's and has expanded over the years to what is in the town today. The main and oldest section of the Sewerage Scheme in Castletownbere, runs from the Allihies Road through the town centre takes in the primary school, has been extended to include a small housing estate in Derreenataggart Middle and also serves a portion of the Eyeries Road. The effluent in this collection network outfalls to the inner harbour and does not receive any treatment.

Septic Tank No. 1

Brandyhall Bridge septic tank serves a number of houses on the Glengarriff Road and the effluent flows by gravity down to a low point to the septic tank located at the bridge. The outfall from the tank discharge into Castletownbere Harbour. Properties served by the septic tank =10 dwellings.

Septic Tank No. 2

The Hospital septic tank serves the hospital and a number of houses opposite on the Glengarriff Road. The outfall from the tank discharges into Castletownbere Harbour. This too is also fed by a gravity sewer to the septic tank. Properties served by this tank = 37 dwellings plus the Castletownbere hospital.

Septic Tank No. 3

Located to the south west of the town the Cametringane septic tank serves a small number of houses and is also fed by gravity. The outfall from the tank discharges into Castletownbere Harbour. Properties served by this tank = 8 dwellings

Septic Tank No. 4

This septic tank is located at Drom North south west of the town and serves an estate of 6 County Council Houses which were built over 30 years ago. The tank is in the garden of one of the houses and has an outfall into a soakpit adjacent to the tank.

Septic Tank No. 5

This septic tank is located at Foildarrig north of the town and as the tank in Drom North it too serves an estate of 6 County Council Houses which were built over 30 years ago. The tank is in the field behind the houses and has an outfall into a soakpit adjacent to the tank.

In order to assess the design capacity (Design Population) of the septic tank the following calculation was used:

$$C = 180P + 2000$$

where C is the capacity of the tank (in litres) and P is the design population. Using this formulae each septic tank can sufficiently cater for populations stated above.

It should be noted that this formulae was obtained from BS6297 1983, this standard has been superseded in 2007 (BS6294 2007) however the new standard does not give any formulae for assessing the capacity of septic tanks. So for the basis of this application BS6297 1983 is used.

(Assumption - 3 p.e. per house)

Brandyhall Bridge Septic Tank

The design load on the septic tank is:

- Capacity = 65 persons
- Volume = 3000gallons (13.64 m³)
- Current load = approx 30pe

Hospital Septic Tank

The design load on the septic tank is:

- Capacity = 241 persons
- Volume = 10000gallons (45.46 m³)
- Current load = 160 pe

Cametringane Septic Tank

The design load on the septic tank is:

- Capacity = 115 persons
- Volume = 5000gallons (22.73 m³)
- Current load = 24 pe

Drom North Housing Septic Tank

The design load on the septic tank is:

- Capacity = 28 persons
- Volume = 1500gallons (7 m³)
- Current load = 18 pe

Foildarrig Housing Septic Tank

The design load on the septic tank is:

- Capacity = 28 persons
- Volume = 1500gallons (7 m³)
- Current load = 18 pe

The septic tank provides primary settlement only, which according to the National Urban Waste Water Study (NUWWS) reduces the BOD load by approximately 30% and the Suspended Solids load by approximately 50%.

The septic tank is de-sludged every year and the sludge is transported off site for treatment.

Control system description:

There is currently no control system in place. Samples may be taken manually from the outfalls, results of which are attached to this application.

Stormwater Overflows

There is a separate storm water sewer within the town which discharges to the harbour west of the primary discharge point SW01. There are no other stormwater overflows attached to the sewerage scheme.

Pumping Stations

There is no pumping involved in the existing sewerage scheme.

Frequency & duration of activation of storm overflow to receiving waters

Not applicable.

Location of discharge enter the receiving waters

The discharges from the septic tanks and secondary outfall are shown on Drawing no Cast B3-01 & Cast B4-01, and enter coastal waters and groundwater.

Description of the proposed plant process and design capacity:

A Preliminary Report for Castletownbere Sewerage Scheme is currently being carried out by Tobin Consulting Engineers. Various surveys are being carried out at present and the Draft report is expected in mid-2009.

The plant will be designed to serve a population equivalent of 2,000 initially with the option to expand to 4,000pe. This will cater for population growth and development demand for the next twenty years. The treatment plant will be designed in such away that if and when additional capacity is required, the plant may be readily extended to cater for additional loads for industrial or other development.

All relevant regulations and standards will be adhered to in the design of the new wastewater treatment plant.

Control system description:

The proposed wastewater treatment plant will allow for monitoring and sampling of the inflow and outflow of wastewater in the plant.

Attachment C.1 should contain supporting documentation with regard to the plant and process capacity, systems, storm water overflows, emergency overflows, etc., including flow diagrams of each with any relevant additional information. These drawings / maps 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 data should be provided to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, B.5, D.2, E.3 and F.2.

Attachment included	Yes	No
		√

C.2 Outfall Design and Construction

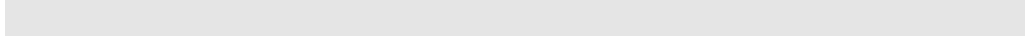
Provide details on the primary discharge point & secondary discharge points and storm overflows to include reference, location, design criteria and construction detail.

Table C.2.1: Details of Existing Discharging Outfalls

Discharge	Reference	Location	Design Criteria	Construction Details
Primary	SW01 Cast	E:68028, N:46138	350mm Discharge pipe	Discharge below high water level
Secondary	SW02 Cast	E:68344, N:46342	Discharge pipe	Discharge below high water level
Secondary	SW03 Cast	E:68614, N:46024	Discharge pipe	Discharge below high water level
Secondary	SW04 Cast	E:67654, N:45745	Discharge pipe	Discharge below high water level
Secondary	GW01 Cast	E:67462, N:45370	Discharge pipe	Discharge to soakpit
Secondary	GW02 Cast	E:67997, N:46481	Discharge pipe	Discharge to soakpit

Attachment C.2 should contain any supporting documentation on the design and construction of any and all discharge outfalls, including stormwater overflows, from the waste water works.

Attachment included	Yes	No
		√



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SECTION D: DISCHARGES TO THE AQUATIC ENVIRONMENT

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.

Details of all discharges of waste water from the agglomeration should be submitted via the following web based link: http://78.137.160.73/epa_wwd_licensing/. The applicant should address in particular all discharge points where the substances outlined in Tables D.1(i), (b) & (c) and D.1(ii), (b) & (c) of Annex 1 are emitted.

Where it is considered that any of the substances listed in Annex X of the Water Framework Directive (2000/60/EC) or any of the Relevant Pollutants listed in Annex VIII of the Water Framework Directive (2000/60/EC) are being discharged from the waste water works or are seen to be present in the receiving water environment downstream of a discharge from the works (as a result of any monitoring programme, e.g., under the Water Framework Directive Programme of Measures) the applicant shall screen the discharge for the relevant substance.

D.1 Discharges to Surface Waters

Details of all discharges of waste water from the agglomeration should be supplied via the following web based link: http://78.137.160.73/epa_wwd_licensing/. Tables D.1(i)(a), (b) & (c), should be completed for the primary discharge point from the agglomeration and Tables D.1(ii)(a), (b) & (c) should be completed for each secondary discharge point, where relevant. Table D.1(iii)(a) should be completed for each storm water overflow. Individual Tables must be completed for each discharge point.

Where monitoring information is available for the influent to the plant this data should also be provided in response to Section D.1.

Supporting information should form **Attachment D.1**

Attachment included	Yes	No
		√

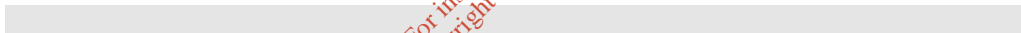
D.2 Tabular Data on Discharge Points

Applicants should submit the following information for each discharge point:

Table D.2:

PT_CD	PT_TYPE	LA_NAME	RWB_TYPE	RWB_NAME	DESIGNATION	EASTING	NORTHING
Point Code Provide label ID's	Point Type (e.g., Primary/Secondary/Storm Water Overflow)	Local Authority Name (e.g., Donegal County Council)	Receiving Water Body Type (e.g., River, Lake, Groundwater, Transitional, Coastal)	Receiving Water Body Name (e.g., River Suir)	Protected Area Type (e.g., SAC, candidate SAC, NHA, SPA etc.)	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference
SW01	Primary	Cork County Council	Coastal	Castletownbere Harbour	None	068028	046138
SW02	Secondary	Cork County Council	Coastal	Castletownbere Harbour	None	068344	046342
SW03	Secondary	Cork County Council	Coastal	Castletownbere Harbour	None	068614	046024
SW04	Secondary	Cork County Council	Coastal	Castletownbere Harbour	None	067654	045745
GW05	Secondary	Cork County Council	Ground	Castletownbere Harbour	None	067462	045370
GW06	Secondary	Cork County Council	Ground	Castletownbere Harbour	None	067997	046481

An individual record (i.e. row) is required for each discharge point. Acceptable file formats include Excel, Access or other upon agreement with the Agency. A standard Excel template can be downloaded from the EPA website at www.epa.ie. This data should be submitted to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, B.5, C.1, E.3 and F.2.



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SECTION E: MONITORING

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

E.1 Waste Water Discharge Frequency and Quantities – Existing & Proposed

Provide an estimation of the quantity of waste water likely to be emitted in relation to all primary and secondary discharge points applied for. This information should be included in Table E.1(i) via the following web based link: http://78.137.160.73/epa_wwd_licensing/.

Provide an estimation of the quantity of waste water likely to be emitted in relation to all storm water overflows within the agglomeration applied for. This information should be included in Table E.1(ii) via the following web based link: http://78.137.160.73/epa_wwd_licensing/.

Indicate if composite sampling or continuous flow monitoring is in place on the primary or any other discharge points. Detail any plans and timescales for the provision of composite sampling and continuous flow meters.

No composite sampling or continuous flow monitoring is in place at present on any of the discharge points. Sampling facilities and continuous flow meters will be provided when new Waste Water Treatment Plant is in place.

E.2. Monitoring and Sampling Points

Programmes for environmental monitoring should be submitted as part of the application. These programmes should be provided as Attachment E.2.

Reference should be made to provision of sampling points and safe means of access, sampling methods, analytical and quality control procedures, including equipment calibration, equipment maintenance and data recording/reporting procedures to be carried out in order to ensure accurate and reliable monitoring.

In determining the sampling programme to be carried out, the variability of the emission and its effect on the receiving environment should be considered.

Details of any accreditation or certification of analysis should be included.

Attachment E.2 should contain any supporting information.

Attachment included	Yes	No
	√	

E.3. Tabular data on Monitoring and Sampling Points

Applicants should submit the following information for each monitoring and sampling point:

PT_CD	PT_TYPE	MON_TYPE	EASTING	NORTHING	VERIFIED
Point Code Provide label ID's assigned in section E of application	Point Type (e.g., Primary, Secondary, Storm Water Overflow)	Monitoring Type M = Monitoring S = Sampling	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used

An individual record (i.e., row) is required for each monitoring and sampling point. Acceptable file formats include Excel, Access or other upon agreement with the Agency. A standard Excel template can be downloaded from the EPA website at www.epa.ie. This data should be submitted to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, B.5, C.1, D.2 and F.2.

PT_CD	PT_TYPE	MON_TYPE	EASTING	NORTHING	VERIFIED
SW01	Primary	Sampling	068028	046138	Y
SW02	Secondary	Sampling	068344	046342	Y
SW03	Secondary	Sampling	068614	046024	Y
SW04	Secondary	Sampling	067654	045745	Y
SW07	Discharge from Private WWTP	Sampling	068258	045413	Y
SW08	Discharge from Private WWTP	Sampling	067837	045453	Y
SW01d	Receiving Water	Sampling	068732	045626	Y

E.4 Sampling Data

Regulation 16(1)(h) of the Waste Water Discharge (Authorisation) Regulations 2007 requires all applicants in the case of an existing waste water treatment plant to specify the sampling data pertaining to the discharge based on the samples taken in the 12 months preceding the making of the application.

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

Attachment E.4 should contain any supporting information.

Attachment included	Yes	No
	√	

SECTION F: 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 development is proposed to be carried out, being development which is of a class for the time being specified under Article 24 (First Schedule) of the Environmental Impact Assessment Regulations, the information on the state of the existing environment should be addressed in the EIS. **In such cases, it will suffice for the purposes of this section to provide adequate cross-references to the relevant sections in the EIS.**

F.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.

Existing Primary and Secondary Discharge Points

The primary discharge point which is located in the inner harbour discharges untreated effluent via 350mm diameter pipe. The pipe discharges below high water mark.

The three outfalls from septic tank 1, 2 and 3 all have outfalls into Castletownbere harbour. These are below high water mark but above low water mark.

Castletownbere harbour is currently not designated as NHA, SAC or Bathing area. There is a new shellfish designation under the Shellfish Waters Directive for an area between Bear Island and the main land but is outside the area of any existing or proposed discharge points.

The two septic tanks serving the small Council housing estates discharge into groundwater via soakpits adjacent to the tanks.

- Details of all monitoring of the receiving water should be supplied via the following web based link: http://78.137.160.73/epa_wwd_licensing/. Tables F.1(i)(a) & (b) should be completed for the primary discharge point. Surface water monitoring locations upstream and downstream of the discharge point shall be screened for those substances listed in Tables F.1(i)(a) & (b). Monitoring of surface water shall be carried out at not less than two points, one upstream from the discharge location and one downstream.

Tables F.1 (i) (a) & (b) are included in the application form.

- For discharges from secondary discharge points Tables F.1(ii)(a) & (b) should be completed. Furthermore, 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.

Tables F.1 (ii) (a) & (b) are included in the application form

- Provide details of the extent and type of ground emissions at the works. For larger discharges to groundwaters, e.g., from Integrated Constructed Wetlands, large scale percolation areas, etc., a comprehensive report must be completed which should include, inter alia, topography, meteorological data, water quality, geology, hydrology, and hydrogeology. The latter must in particular present the aquifer classification and vulnerability. The Geological Survey of Ireland Groundwater Protection Scheme Dept of the Environment and Local Government, Geological Survey of Ireland, EPA (1999) methodology should be used for any such classification. This report should also identify all surface water bodies and water wells that may be at risk as a result of the ground discharge.

The two septic tanks which are discharging into groundwater are only treating domestic effluent. In each case only waste water from 6 houses is entering the tanks. The main water supply in Castletownbere is from Glenbeg Lake north of the town which is approximately 7km away.

The following are the SWRBD Area Characteristics for the lands associated with the septic tank discharge at Foildarrig and Drom North:

Land Cover: land occupied by agriculture with areas of natural vegetation
 SWRBD Rock Unit: Devonian old red sandstone
 Vulnerability: Drom North = High to Low
 Foildarrig = Extreme
 Aquifer Data: Poor productive bedrock aquifer
 Groundwater Risk Assessment: Not at significant risk

- Describe the existing environment in terms of water quality with particular reference to environmental quality standards or other legislative standards. Submit a copy of the most recent water quality management plan or catchment management plan in place for the receiving water body. Give details of any designation under any Council Directive or Regulations that apply in relation to the receiving water.

Castletownbere Harbour and its environs are not within a designated area and are not designated as sensitive waters under the Urban Wastewater Treatment Directive.

- Provide a statement as to whether or not emissions of main polluting substances (as defined in the *Dangerous Substances Regulations S.I. No. 12 of 2001*) to water are likely to impair the environment.

The Dangerous Substances Regulations define the main polluting pesticides, solvents and metals which have significant effects on the environment. As the

load to the WWTP is mainly domestic and tourism with no industrial contribution it can be assumed that the presence of these substances is negligible. This has been confirmed by results of analysis of receiving water outlined in Table E4. The main parameters which impact the receiving environmental are limited to BOD, suspended solid and bacteria (total and faecal Streptococci).

- In circumstances where water abstraction points exist downstream of any discharge describe measures to be undertaken to ensure that discharges from the waste water works will not have a significant effect on faecal coliform, salmonella and protozoan pathogen numbers, e.g., Cryptosporidium and Giardia, in the receiving water environment.

No water abstraction points exist downstream of any of the discharge locations.

- Indicate whether or not emissions from the agglomeration or any plant, methods, processes, operating procedures or other factors which affect such emissions are likely to have a significant effect on –

- (a) a site (until the adoption, in respect of the site, of a decision by the European Commission under Article 21 of Council Directive 92/43/EEC for the purposes of the third paragraph of Article 4(2) of that Directive) –
 - (i) notified for the purposes of Regulation 4 of the Natural Habitats Regulations, subject to any amendments made to it by virtue of Regulation 5 of those Regulations,
 - (ii) details of which have been transmitted to the Commission in accordance with Regulation 5(4) of the Natural Habitats Regulations,
 - (iii) added by virtue of Regulation 6 of the Natural Habitats Regulations to the list transmitted to the Commission in accordance with Regulation 5(4) of those Regulations,
- (b) a site adopted by the European Commission as a site of Community importance for the purposes of Article 4(2) of Council Directive 92/43/EEC¹ in accordance with the procedures laid down in Article 21 of that Directive,
- (c) a special area of conservation within the meaning of the Natural Habitats Regulations, or
- (d) an area classified pursuant to Article 4(1) or 4(2) of Council Directive 79/409/EEC²;

¹Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (OJ No. L 206, 22.07.1992)

²Council Directive 79/409/EEC of 2 April 1979 on the conservation of wild birds (OJ No. L 103, 25.4.1979)

Not Applicable - None of the above directives apply in this case.

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

Not Applicable

- o 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 F.1**.

Attachment included	Yes	No
		√

F.2 Tabular Data on Drinking Water Abstraction Point(s)

Not Applicable

Applicants should submit the following information for each downstream or downgradient drinking water abstraction point. 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.

ABS_CD	AGG_SERVED	ABS_VOL	PT_CD	DIS_DS	EASTING	NORTHING	VERIFIED
Abstraction Code	Agglomeration served	Abstraction Volume in m ³ /day	Point Code Provide label ID's	Distance downstream in meters from Emission Point to Abstraction Point	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used

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

An individual record (i.e. row) is required for each abstraction point. Acceptable file formats include Excel, Access or other upon agreement with the Agency. A standard Excel template can be downloaded from the EPA website at www.epa.ie. This data should be submitted to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, B.5, C.1, D.2 and E.3.

Attachment F.2 should contain any supporting information.

SECTION G: PROGRAMMES OF IMPROVEMENTS

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

G.1 Compliance with Council Directives

Provide details on a programme of improvements to ensure 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;

- Dangerous Substances Directive 2006/11/EC,
- 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, and
- Shellfish Waters Directive (79/923/EEC).

Compliance with Council Directive

A Preliminary Report is currently being carried out by Tobin Consulting Engineers and a new wastewater treatment plant is proposed for the town of Castletownbere (Site not yet chosen). Once this new WWTP has been constructed and commissioned the level of treatment, control and monitoring will be improved and hence further facilitate compliance with the Council Directives. The following details the compliance with the applicable directives.

Dangerous Substances Directive 2006/11/EC

The effluent from Castletownbere is mainly tourist and domestic and the industrial contribution can be considered as negligible. For this reason, we can assume that any dangerous substances mentioned in the Dangerous Substances Regulations should not present a danger to the receiving waters.

The new WWTP proposed in the programme of improvement shall advance the level of control by increasing the number of sampling and monitoring points. The detection of any dangerous substances will be then facilitated.

Water Framework Directive 2000/60/EC

Water Framework Directive 2000/60/EC – The objectives of the Water Framework Directive (WFD) are to protect all high status waters, prevent further deterioration of all waters and to restore degraded surface and ground waters to good status by 2015. Cork County Council through the Water Services Investment Programme propose to construct a new wastewater treatment facility at Castletownbere to provide appropriate treatment to the effluent prior to discharge to the harbour, thus improving water quality in Castletownbere Harbour. Regular monitoring of inlet

and outlet flows will be scheduled at the WWTP and a monitoring programme will be implemented to monitor for dangerous substances in the receiving waters.

The proposed wastewater treatment plant will comply with this directive and will be considered during the design of the plant.

Birds Directive 79/409/EEC & Habitats Directive 92/43/EEC,

Various habitats and species have been designated under the EU Habitats and Birds Directive. There are two sites in Bantry Bay which are designated for their nature conservation importance. Cusroe Point on Whiddy Island, located approximately 23km to the east of Castletownbere is a proposed Natural Heritage Area. The site is designated for a gravel spit on the south-east of the island which is important for breeding birds including the Arctic Tern which is listed on Annex 1 of the EU Birds Directive. Sheelane Island, located approximately 22 km east of Castletownbere in Bantry Bay is also a proposed Natural Heritage Area. The site is designated because of its nationally important numbers of Cormorants and locally important numbers of nesting Herring Gulls.

Due to the considerable distance to the above locations it is not foreseen that any negative impacts will arise from the agglomeration in relation to these directives.

Groundwater Directives 80/68/EEC & 2006/118/EC,

The amount of effluent discharging into the ground is very small. These septic tanks will become redundant with the construction of a new wastewater treatment plant and will therefore not have any negative impacts on the existing groundwater. This confirmed by the SWRBD risk assessment for the groundwater in the area: "Not at significant risk".

Drinking Water Directives 80/778/EEC

This Directive concerns standards for water intending for human consumption. As there is no drinking water abstraction point in the vicinity of any of the discharge points, this directive is not applicable.

Urban Waste Water Treatment Directive 91/271/EEC,

As stated in the S.I. No. 254 of 2001, Urban Waste Water Treatment Regulation, 2001: "A sanitary authority shall ensure by 31 December 2005 that urban waste water entering a collection system shall before discharge be subject to appropriate treatment in the following cases:

- (a) in respect of discharge to freshwater and estuaries from agglomerations with a population equivalent of less than 2,000.
- (b) in respect of discharges to coastal waters from agglomerations with a population equivalent of less than 10000.

The treated effluent quality standard for the Castletownbere Waste Water Treatment Plant is to comply with the E.U. Urban Waste Water Treatment Directive Standards. Which are as follows:

- BOD 25mg/l
- COD 125mg/l
- Total Suspended Solids 35mg/l

Detailed design of the proposed treatment plant has not yet been carried out. A typical plant would be designed to conform to the above standard and would consist in this case of screening, aeration, settlement with return of sludge and sludge treatment and removal and will also include storm water storage.

Environmental Liabilities Directive 2004/35/EC,

The Environmental Liabilities Directive is about preventing and remedying environmental damage. It aims to hold operators whose activities have caused environmental damage financially liable for remedying this damage.

It is likely that under the contract for Castletownbere Wastewater Treatment Plant, (along with other WWTP's currently being constructed and designed) a Performance Management System will be required. Such a system would provide a uniform approach to dealing with performance management issues, including procedures for dealing with plant operation, and in particular for dealing with emergencies or failure to meet treated effluent standards. Failure to meet the specified treated effluent standards may result in final penalties to the operating contractor. As a result, the risk of environmental pollution from the treatment plant may be reduced.

Bathing Water Directive 76/160/EEC,

There are a number of bathing beaches in the Castletownbere area (however there is no designated Bathing Water in the area). In Ireland the legislation governing the quality of bathing waters is set out in the Quality of Bathing Waters Regulations, 1992 (S.I. 155 of 1992) and amendments which transpose the EU Directive 76/160/EC concerning the quality of bathing water.

There is currently no blue flag beach in the Castletownbere area.

Shellfish Waters Directive (79/923/EEC).

A shellfish area has been designated for an area between Bear Island and Castletownbere. Any existing or proposed discharge points are outside the designated area. The Preliminary Report currently being carried out will consider the location of this shellfish designated area and the effect that a new discharge point for the proposed WWTP will have on the shellfish area.

There are a number of licenced BIM areas within Castletownbere harbour and the proposal is that all the BIM areas will be within the Shellfish Designated Area.

Attachment G.1 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.

Attachment included	Yes	No
	√	

G.2 Compliance with Water Quality Standards for Phosphorus Regulations (S.I. No. 258 of 1998).

Provide details on a programme of improvements, including any water quality management plans or catchment management plans in place, to ensure that improvements of water quality required under the Water Quality Standards for Phosphorous Regulations (S.I. No. 258 of 1998) are being achieved. Provide details of any specific measures adopted for waste water works specified in Phosphorus Measures Implementation reports and the progress to date of those measures. Provide details highlighting any waste water works that have been identified as the principal sources of pollution under the P regulations.

Not applicable.

Attachment G.2 should contain the most recent programme of improvements and any associated documentation requested under Section G.3 of the application.

Attachment included	Yes	No
		√

G.3 Impact Mitigation

Provide details on a programme of improvements to ensure that discharges from the agglomeration will not result in significant environmental pollution.

The new wastewater treatment plant is to be constructed in Castletownbere which will improve the standard of treatment and quality of effluent discharging from the wastewater treatment plant.

Attachment G.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.

Attachment included	Yes	No
		√

G.4 Storm Water Overflow

Provide details on a programme of improvements to ensure that discharges other than the primary and secondary discharges comply with the definition of 'storm water overflow' as per Regulation 3 of the Waste Water Discharge (Authorisation) Regulations, 2007.

This will be addressed in the Preliminary Report which is currently being carried out.

Attachment G.4 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.

Attachment included	Yes	No
		√

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SECTION H: DECLARATION

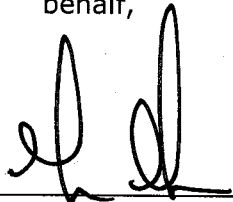
Declaration

I hereby make application for a waste water discharge licence/revised licence, pursuant to the provisions of the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007).

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 local authority 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 Applicant, any person acting on the Applicant's behalf, or any other person.

Signed by :  Date : 25/2/07.
(on behalf of the organisation)

Print signature name: Moira Murray

Position in organisation: DIRECTOR OF SERVICE



SECTION I: JOINT DECLARATION

Joint Declaration ^{Note1}

I hereby make application for a waste water discharge licence/revised licence, pursuant to the provisions of the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007).

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

Lead Authority

Signed by : _____ **Date :** _____
(on behalf of the organisation)

Print signature name: _____

Position in organisation: _____

Co-Applicants

Signed by : _____ **Date :** _____
(on behalf of the organisation)

Print signature name: _____

Position in organisation: _____

Signed by : _____ **Date :** _____
(on behalf of the organisation)

Print signature name: _____

Position in organisation: _____

Note 1: In the case of an application being lodged on behalf of more than a single water services authority the following declaration must be signed by all applicants.

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- Site Notice

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Tables E

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Table F.1(i)(a) Surface/Ground Water Monitoring – Primary discharge

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