Waste Water Discharge Authorisation

Application Form

EPA Ref. No: *(Office use only)*	

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ABOUT THIS APPLICATION FORM

This Application Form is for the purpose of making an application for a Waste Water Discharge Authorisation under the European Union (Waste Water Discharge) Regulations 2007 to 2020, or for the review of an existing Waste Water Discharge authorisation. It should be completed in accordance with the Guidance Document which is available on www.epa.ie.

A valid application for a Waste Water Discharge Authorisation must contain the information prescribed in the European Union (Waste Water Discharge) Regulations 2007 to 2020. Regulations 16 and 24 set out the statutory information requirements for a Waste Water Discharge licence (WWDL) and a Certificate of Authorisation (CoA) application respectively.

Neither this Application Form nor the guidance document purport to be and should not be considered a legal interpretation of the provisions and requirements of the European Union (Waste Water Discharge) Regulations 2007 to 2020.

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 guarantees, undertakings or warranties 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 this Application Form and any clarifying explanation contained in the Guidance Note, then the requirements in this Application Form should take precedence. The requirements of the Regulations shall take precedence over any considerations mentioned in this Application Form, the guidance document or on the website.

The Application Form comprises sections A-E as follows:

Section A:	Non-Technical Summary
Section B:	General
Section C:	Discharges & Monitoring
Section D:	Impact Assessment
Section E:	Declaration

SECTION A: NON-TECHNICAL SUMMARY

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

A.1 Non-Technical Summary

This part of the Application Form collects a Non-Technical Summary which identifies all environmental impacts of significance associated with the discharge of waste water from the waste water works.

A1.1 Supporting documents

Complete the following table and submit the relevant supporting document as Attachment A1 in accordance with the guidance.

Table 1 - Non-Technical Summary Document Name

Document type	Document name
Non-technical summary	**Attachment A.1.1**: Non-Technical Summary **Attachment A.1.2**: Map 1 - Area of Interest

SECTION B: GENERAL

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

B.1 Application Details

This part of the form collects contact details, the type of application, and the location and size of the agglomeration.

B.1.1 Application Type

This part of the form collects details of the type of application being made.

Table 2 – Application Type

		Tick as appropriate (✓)
A	Application for the review of an existing authorisation	✓
B	New application for a licence in respect of which the Agency has previously granted a certificate	
C	New application for a licence for discharges (>500 P.E)	
D	New application for a certificate for discharges (< 500 P.E.)	

If A or B are applicable, provide the following information:

Current EPA Authorisation Register Number(s)	D0426-01

If A is applicable, provide the following information:

Grounds for review on which the application is being made:
Following a Waste Water Discharge Authorisation examination by the EPA on 28th June 2021, it was recommended that a Waste Water Discharge Authorisation (WWDA) application was prepared and submitted to the EPA for determination. It was considered that the current WWDA, D0426-01, does not satisfy the environmental requirements of the WWDA Regulations as amended, and that a WWDA review was required. The Dripsey WwTW upgrade project involved the design and construction of a new WwTP and outfall pipeline to serve the agglomeration of Dripsey (Model Village) and remedial network upgrade works to ensure compliance with the Waste Water Discharge Licence (WWDL) - Licence Register Number: D0426-01 issued by the EPA on the 30th July 2012.

If C or D are applicable, provide the following information:

Date on which the waste water works became / becomes operational:	Construction of the new Dripsey WwTP was completed in November 2021 and the plant is scheduled to be fully commissioned in Q1 2022. The remedial network upgrade works have been completed.

In the case of an application for a licence (review), confirm the agglomeration population equivalent (p.e.):

Table 3 - Agglomeration p.e. thresholds

Discharges from agglomerations with a p.e. of	Tick as appropriate (✓)
more than 10,000	
2,001 to 10,000	
1,001 to 2,000	
500 to 1,000	✓

B.1.2 Applicant's Details

Provide the following information:

Table 4 - Name and Address of Applicant

Name*:	Irish Water
Address:	Colvill House 24-26 Talbot Street Dublin 1
CRO Number:	530363
Tel:	+353 1 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.*

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

Table 5 – Name and Address for Correspondence

Name*:	Ken Conroy
Address:	Colvill House 24-26 Talbot Street Dublin 1
Tel:	+353 1 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.2. Agglomeration Details

This part of the form collects details of the agglomeration, the waste water works and any associated waste water treatment plant, capacity details and waste water inputs.

B.2.1 Agglomeration name and Geographical Location

Table 6 - Agglomeration Name and Location

Name of Agglomeration:	Dripsey
Name of townland or townlands of the agglomeration served by a waste water works to which the application relates:	Deeshart, Carrignamuck, Agharinagh and Lismahane
Included on EPA Waste Water Priority List?	No
Included on European Commission infringement list?	No

B.2.2 Waste water works and associated Waste Water Treatment Plant(s)

Table 7 - Waste Water Works

Description of the existing waste water works (**as per D0426-01**):	Dripsey is a settlement located approximately 19 km west of Cork City and 1 km north of the River Lee at the Inniscarra Lake Reservoir. The settlement consists of three nodes of development namely; Model Village, Upper Dripsey and Lower Dripsey but only the Model Village is serviced by a public sewer. The current population equivalent (p.e.) is 420. The Works consisted of a gravity combined sewer which collected the wastewater from the agglomeration. The effluent from the agglomeration arises mainly from domestic sources. There are no IPC or waste licensed activities discharging to the agglomeration or to the Dripsey River upstream or downstream of the agglomeration. The WwTP, located at NGR 148619E, 074844N, was built in the early 1990s with a design of 600 p.e. and originally consisted of a septic tank. This was upgraded with treatment consisting of a primary settlement tank and a rotating biological contactor (RBC) plus a final settling tank. Treated effluent from the WwTP discharged directly to the Dripsey River at NGR 148607E, 074817N, which is a tributary of the River Lee that flows into Cork Harbour. The treatment plant was in very poor condition and was hydraulically overloaded with infiltration causing a '*washing out*' of the works. There were no storm water overflows or pumping stations within the agglomeration.

Description of proposed development, if any, to which the application relates:	The main objective of the Dripsey WwTW upgrade project was to design and construct a new WwTP and outfall pipeline to serve the agglomeration of Dripsey (Model Village) and remedial network upgrade works to ensure compliance with the WWDL - Licence Register Number: D0426-01; issued by the EPA in accordance with the Waste Water Discharge (Authorisation) Regulations (S.I. No. 684 of 2007) on the 30th July 2012 (now S.I. No. 214 of 2020). *New WwTP & Outfall* The new Waste Water Treatment Plant, located at NGR 148619E, 074844N with a design capacity of 600 p.e, will provide secondary treatment to waste water generated within the Dripsey agglomeration. The new WwTP consists of the following: • Inlet Works • *Package Screening and Grit Removal Unit* • *Flow Measurement* • *Storm Overflow* • 2 No. Storm Holding Tanks • Primary Treatment from 2 No. Upflow PSTs • Secondary Treatment from 2No. RBCs • Secondary Settlement by 2 No. Upflow FSTs • Chemical Dosing for Phosphorus Removal • Picket Fence Thickener including Sludge Storage • New discharge outfall (*This new outfall is located ca. 4.5m from SW001 under D0426-01*). The design of the WwTP is for Formula A to the inlet works, peak flows (FFT) to treatment of 3 times the dry weather flow (DWF), and sludge treatment. The design flows and effluent standards (as per WWDL D0426-01 ELVs) are provided below:

Parameter	Design Flow Rate
Dry Weather Flow (DWF)	135m^3/d
Average Daily Flow (1.25DWF)	168.8m^3/d
Flow to Full Treatment (FFT)	405m^3/d
Formula A Flow	945m^3/day

	<table><tr><th>Parameter</th><th>Design Standards</th></tr><tr><td>Temp</td><td>25°C Max</td></tr><tr><td>pH</td><td>6.0 – 9.0</td></tr><tr><td>BOD</td><td>25mg/l</td></tr><tr><td>COD</td><td>125mg/l</td></tr><tr><td>Suspended Solids</td><td>35mg/l</td></tr><tr><td>Total Ammonia (as N)</td><td>10mg/l</td></tr><tr><td>Ortho-P (as P)</td><td>5mg/l</td></tr></table> *Remedial Network Upgrade Works* The existing foul gravity network was upgraded as part of the Project. Additionally, the existing surface water network which previously discharged into the foul network has been diverted away from the foul network. A new collector sewer was constructed. This sewer replaced an existing undersized combined sewer. The remedial network upgrade works have the following benefits to the agglomeration: • Mitigate risk of hydraulic impact to the WwTP • Mitigate risk of dilution of biological load damaging WwTP process • Retain additional reserve storage capacity in foul network • Reduce overflows from the stormwater overflows.
Number and type of waste water discharges from the waste water works including proposed waste water discharges:	**Discharge Scenario as per D0426-01** *Primary Discharge (currently SW001):* Treated effluent was discharged directly to the Dripsey River at NGR 148607E, 074817N *via* a 100mm outlet pipe. *Secondary Discharges:* There were no secondary discharge points associated with the waste water works. *Storm Water Overflows:* There were no Storm Water Overflows associated with the waste water works. *Emergency Overflows:* There were no Emergency Overflows associated with the waste water works.

Discharges as per Subject Matter of Licence Review

New Primary Discharge (SW001):
The primary discharge from the new WwTP will discharge to the Dripsey River at 148611E, 074819N *via* a new 450mm outlet pipe which is located *ca*. 4.5m from SW001 under D0426-01.

The primary discharge will be monitored continuously and recorded at the electromagnetic flowmeters which will be installed at the WwTP.

Secondary Discharges:
There are no secondary discharge points associated with the waste water works.

Storm Water Overflows from WwTP (SW002 & SW003)
There are 2 no. SWOs from the new WwTP.

SW002 – Flows to the works greater than Formula A will overflow through an overflow sewer that connects to the main primary outfall pipe to the Dripsey River. Whenever the flow exceeds Formula A it will rise and pass through the overflow screen before entering the overflow pipe to the Dripsey River at NGR 148611E, 074819N. Retained screenings will fall back into the overflow chamber for delivery forward to preliminary treatment.

SW003 – A high level storm water overflow from the storm tank will discharge *via* gravity towards the primary outfall and will combine with the treated effluent downstream of the sampling location before being discharged to the Dripsey River at NGR 148611E, 074819N.

Both overflows have been designed in compliance with the definition of '*Storm Water Overflow'* as per Regulation 3 of the Waste Water Discharge (Authorisation) Regulations, 2007, as amended and the criteria as set out in the DoEHLG '*Procedures and Criteria in Relation to Storm Water Overflows'*, 1995.

The outlet flows from the WwTP will be measured, recorded, logged, and trended on the SCADA system.

	Emergency Overflows There are no emergency overflows from the agglomeration.
Is the network assessment complete?	Not applicable - No SWOs on the network.
If the answer above is no, in what year is the assessment expected to be complete?	Not applicable.

Table 8 - Waste water treatment plant associated with the waste water works

Site contact Name*:	Claire Cremin (Regional Wastewater Compliance Specialist)
Address of waste water treatment plant (including Eircode):	Dripsey WwTP, Mill Road, Agharinagh, Dripsey, Co. Cork
Telephone Number:	01-8925000
e-mail:	WasteWaterComplianceSouthern@water.ie
Grid ref (6E, 6N)	148619E, 074844N
Description of the treatment process	Secondary Treatment
Primary discharge point reference ID:	SW001

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

B.2.3 Supporting documents

Complete the following table and submit the relevant supporting documents in accordance with the Guidance Document:

Table 9 - Supporting Document Names

Document type	Document name
B.2 .1 Agglomeration map	**Attachment B.2.1**: Map 2 – Agglomeration Plan
B.2-2 Site map including discharge and monitoring points.	**Attachment B.2.2:** Map 3 – WwTP Site Location Plan **Attachment B.2.2:** Map 4 – Location of Primary Discharge Point **Attachment B.2.2:** Map 5 – Location of Storm Water Overflows **Attachment B.2.2**: Map 6 – Location of Ambient Monitoring Points
B.2.3 Waste water process flow	**Attachment B.2.3**: Waste Water Process Flow Diagram

B.2.4 Capacity of the waste water works

Table 10 - Capacity of the Waste water Works

Population Equivalent of the agglomeration to which the application relates:	600 p.e. (Design)
Maximum average weekly population equivalent of the agglomeration:	420 p.e (Source: 2020 AER)
Existing Organic Capacity of the waste water treatment plant - As Constructed or nominal design (p.e.)	600 p.e (Design)
Proposed Organic Capacity of the waste water treatment plant - As per planning permission or design (p.e.)	600 p.e (Design)
Current Collected Load (p.e.):	420 (Source: 2020 AER)
Remaining Organic Capacity (p.e.):	180 p.e.
Is the plant overloaded – organic loading?	No
Current Peak Hydraulic Capacity of the waste water works–As Constructed or nominal design (m^3/day):	405 m^3/day (Design)
Proposed Peak Hydraulic Capacity of the waste water works–As per planning permission or nominal design (m^3/day):	405 m^3/day (Design)
Current and proposed dry weather flow (DWF) to the treatment plant (m^3/day):	Current: 135 m^3/day Proposed: 135 m^3/day
Current average hydraulic loading to the treatment plant (m^3/day):	134 m^3/day (Source: Average Daily Flow Data from Jan – Oct 2021) 426.77 m^3/day (2020 AER)
Remaining Hydraulic Capacity (m^3/day):	271 m^3/day (based on 2021 flow data) 0 m^3/d (based on 2020 AER data)
Is the plant hydraulically overloaded?	The works prior to the current upgrade works was hydraulically overloaded with storm events causing the washing out of the existing treatment system.

B.2.5 Waste Water Inputs

Table 11 - Waste Water Inputs to Waste Water Works

Inputs	P.E.	% of total PE
Domestic waste water load (including commercial)	420 p.e.*	100%
Industrial waste water load	0	0%
Leachate	0	0%
Waste water to be conveyed and discharged only (i.e.by pass the WWTP)	0	0%
Total	420 p.e.	100%

*Source: 2020 AER

Where industrial waste water is relevant to this application, provide the following information:

Table 12 - Industrial waste water pre-treatment

A	Is the requirement for pre-treatment (Article 9 of the urban waste water treatment regulations 2001 as amended) met?	Not applicable

If 'No' was answered to A, provide details of the measures to be taken to comply:

Not applicable

B.3 Planning documentation

B.3.1 Planning information

This part of the application form collects planning information relating to development or proposed development relevant to which the application relates.

Table 13 - Planning Status

	Planning Authority name:	Cork County Council
A	Is planning permission required for development or proposed development to which the application relates?	Yes
B	If *'Yes'*, has planning permission been granted?	Yes, Part 8

C	If planning permission is not required at A above, is the proposed development, if any, to which the application relates exempted development?	Not applicable

If '*Yes*' was answered to A and B, above, the following 'Planning Granted' table should be completed.

Table 14 - Planning granted

Planning File Reference Number:	Part 8 – File Ref Not Available
Planning Appeal Reference Number (if relevant):	Not applicable
Planning Authority Name / An Bord Pleanála:	Cork County Council
Date of Planning Decision (Final Grant):	25th March 2013
Brief description:	In December 2012 Cork County Council applied to the Planning Authority through Part 8 of the Planning and Development Regulations for a new WwTP at Agharinagh, Model Village, Dripsey, County Cork on the site of the existing WwTP. The application was approved in March 2013. The objective of the development was to provide improved wastewater infrastructure in the village with the aim of improving the water quality of the local environment and provide safe and efficient treatment of wastewater generated within the agglomeration.
EIAR required with Planning Application?	No
Confirm that the supporting documentation is provided:	Yes – Refer to **Attachment B.3 –** Part 8 Planning Approval

If '*Yes*' was answered to A and '*No*' was answered to B, above, the following Planning under Consideration table should be completed.

Table 15 - Planning under Consideration

Planning File Reference Number:	Not applicable
Planning Appeal Reference Number (if relevant):	
Planning Authority Name / An Bord Pleanála:	
Date of application:	

Brief description:	
EIAR required with Planning Application?	
Confirm that the supporting documentation is provided:	

If '*No*' was answered to A and 'Yes' was answered to C, the following Exempted Development table should be completed.

Table 16 - Exempted Development

Reason for exemption:	Not applicable

B.3.2 Supporting documents

The document names for all supporting documentation should be provided in the following table.

Table 17 - Supporting Documents

	Document type	Document name
Planning granted	- planners letter confirming EIA is not required (if relevant)	Not applicable
	- a copy of relevant grant of planning permission AND planners report	**Attachment B.3** – Part 8 Process Planning Approval
Planning under consideration	- confirmation from a planning authority or An Bord Pleanála (as applicable) that an application for permission comprising or for the purposes of the waste water discharge to which the application relates, is currently under consideration by the planning authority concerned or An Bord Pleanála	Not applicable
	- Planners letter confirming EIA not required (if relevant)	Not applicable
Exempted development	- Planners letter confirming development is exempted or reference to the specific legislation for exemption	Not applicable

B.4 Notices and Advertisements

This part of the form collects evidence of stakeholder engagement prior to making this application. The location of the site notice should be provided in the following table.

Table 18 - Site notice location

Grid co-ordinates (6E, 6N) Entrance to WwTP:	148623E	074880N
Exiting onto main road**:**	148646E	074926N

B.4.1 Supporting documents

The document names for all supporting documentation should be provided in the following table:

Table 19 - Names of Supporting Document(s) on Notices and Advertisements

Document type	Document name
Newspaper notice:	**Attachment B.4.1**: Newspaper Notice
Site notice:	**Attachment B.4.2**: Site Notice
Map of site notice location:	**Attachment B.4.3:** Map 7 – Site Notice Location
Water Services Authority notice:	Not applicable
EIA Portal Confirmation notice:	Not applicable

B.5 Preliminary examination/EIA Screening/EIAR

This part of the application form collects information in relation to EIA and the development /proposed development comprising or for the purposes of the waste water discharge.

Table 20 - EIA related information.

A	Having regard to B.3, is this application accompanied by an EIAR?	No
B	Is the application in respect of the waste water discharge from a waste water treatment plant with a capacity of greater than 10,000 population equivalents as defined in Article 2, point (6), of the Urban Water Water Treatment Directive	No
C	Are there other competent authorities conducting EIA for the development or proposed development to which this application relates?	No
D	If '*Yes*' to C, provide the name of the competent authority and consent reference	Not applicable

If the answer to either A or B is 'Yes', the EIAR must accompany the application.

Preliminary Environmental Impact Assessment (EIA) Screening:

The subject matter of this application falls well below the threshold of Regulation 17 (i) of S.I No. 214 of 2020 and is not a WwTP specified in accordance with paragraph (6)(c) or (8)(b)(ii) of Regulation 18 or paragraph (3)(c) or (5)(b)(ii) of Regulation 25.

Based on the above, it can be confidently concluded that the subject matter of this application (*i.e.,* operational discharges of the agglomeration), due to its size, scale, location, and nature, would have no real likelihood of significant effects on the environment, and therefore an Environmental Impact Assessment (EIA) and the production of an Environmental Impact Assessment Report (EIAR) is not required to support this application.

B.5.1 Supporting documents

The names assigned to the documents should be provided in the following table:

Table 21 - Names of Supporting Document(s) on EIA

Document type	Document name
EIAR	Not applicable

Preliminary examination / EIA screening report	**Attachment B.5**: Preliminary EIA Screening Report

B.6. Compliance with EU Directives & National Regulations

This part of the application form collects details on compliance with relevant EU Directives and national Regulations.

B.6.1 Supporting document

The EPA template provided should be completed. The name assigned to the document should be provided in the following table:

Table 22 - Names of Supporting Document on Compliance with EU Directives and National Regulations

Document type	Document name
Compliance with EU Directives & National Regulations	**Attachment B.6:** Compliance with EU Directives & National Regulations

B.7 Foreshore Act Licences.

This part of the application form collects information relating to Foreshore Act Licences where relevant.

Is Foreshore Act Licence required for development or proposed development the subject of this application?	Not applicable

If yes, and the Foreshore Act Licence is relevant to this application, provide the following information:

Table 23 -Foreshore Act Licence

	Foreshore Act Licence Competent Authority name:	Not applicable
A	Has a Foreshore Act Licence being granted?	
B	If no to A, is a Foreshore Act Licence application under consideration by the relevant competent authority?	
C	Was EIA carried out or will be carried out by the Foreshore Act Licence competent authority?	
D	If *'Yes'* to C, confirm that the same EIAR was submitted to Foreshore competent authority as accompanied this WWDA application:	
E	If *'Yes'* to A, provide: - Licence Reference Number; and - date of grant of consent:	
G	If *'Yes'* to B, provide application reference number	

B.7.1 Supporting documents

The name(s) assigned to all supporting documentation should be provided in the following table:

Table B22 - Supporting documents

	Document type	Document name
If *'Yes'* to A	Foreshore Act Licence:	Not applicable
If *'Yes'* to C	Foreshore Act Licence report:	Not applicable

B.8 Programme of Improvements

For licence review applications, provide information on current licence requirements with respect to specified improvement works (B.8.1) and Condition 5 improvement programme (B.8.2).

For all applications, provide information on planned improvements (B.8.3). Supporting information can be uploaded / attached to this part of the application form.

B.8.1 Specified Improvement Programme

In the case of a licence review are there specified improvement works in Schedule A and C of current licence?	Yes

If *'Yes'*, the following table should be completed for each specified improvement works.

Table 23 - Schedule A & C Improvement Programme

Specified Improvement Programmes: (under Schedule A and C of WWDL)	D0426-SIP:01 Infiltration Programme Remediation (*Remedial Network Upgrade Works*)
Date for completion of Improvement Programme in the licence:	31st December 2014
Has the date for completion expired? (Enter N, N/A or Y)	Y
Status of works: *e.g. (i) Not Started; (ii) At planning stage; (iii) Work ongoing on-site; (iv) Commissioning phase; (v) Completed; (vi) Delayed*	Completed
Irish Water's expected timeframe for completing the work	Completed
Comments: Refer to **Attachment B.8:** Improvement Programme.	

B.8.2 Condition 5 Improvement programme

Provide details of the Condition 5 improvement programme by completing the following table:

Table 24 - Condition 5 Improvement Programme

Improvement identifier:	D0426-IP:84
Improvement description:	Capital Improvement Programme - New WwTP
Improvement source: (*e.g. WWTP assessment, Sewer assessments, Secondary discharges assessment SWO assessment, Drinking Water Abstraction Risk Assessment, Shellfish Impact Risk Assessment, Pearl Mussel Impact Assessment, Improved Operational Control, Incident Reduction, Elimination/Reduction of Priority Substances, Process Optimisation)*	Improved Operational Control
Status of works:	Construction of the new Dripsey WwTP and outfall was completed in November 2021 and the plant is scheduled to be fully commissioned in Q1 2022.
Expected Completion date:	See above
Comments: Refer to **Attachment B.8:** Improvement Programme	

B.8.3 Planned programme of improvements

Provide information on planned programme of improvements by completing the following table:

Table 25 -Planned Programme of Improvements

Waste water discharge reference code:	Not applicable
Type: (primary discharge / secondary discharge/ storm water overflow)	Not applicable
Improvement works description:	Not applicable
Expected completion date:	Not applicable
Planning status: (grant of permission / exempted development)	Not applicable
Prioritised for funding:	Not applicable

B.8.4 Supporting documents

Attachment B8 should be submitted in accordance with the Guidance Document as supporting information and the name assigned to it provided in the following table:

Table 26 - Supporting documents

Document type	Document name
Improvement programme	**Attachment B.8:** Improvement Programme

B.9 Fees

State the appropriate fee as per Columns 2 or 3 of the Third Schedule of the European Union (Waste Water Discharge) Regulations 2007 to 2020.

Table 27 - Fee

Class of Waste Water Discharge		Fee accompanying application / review application (in €)
Discharges from agglomerations with a population equivalent of:	(*tick [✓] one as appropriate*)	
- more than 10,000		€6,000
- 2,001 to 10,000		
- 1,001 to 2,000		
- 500 to 1,000	✓	
- less than 500		

SECTION C: DISCHARGES & MONITORING

C.1. Discharges & Monitoring

The Discharges & Monitoring template should be downloaded from the EPA website (www.epa.ie), completed and submitted in accordance with the Guidance Document.

C.1.1 Supporting document

Attachment C.1 should be submitted in accordance with the Guidance Document as supporting information and the name assigned to it provided in the following table:

Table 28 - Discharges & Monitoring

Document type	Document name
Discharges & Monitoring	**Attachment C.1:** Discharges and Monitoring

C.2. Measures to Prevent Unintended Discharges

Existing and proposed measures should be identified in the table below. Additional measures may be added to this table as required.

Table 29 -Prevention Measures & Monitoring

Measures to prevent unintended discharges	Existing (Y/N)	Proposed (Y/N)	Applicability	Surveillance measure
Accident prevention procedure:	N	Y	-	Connection for temporary generator. Uninterruptible Power Supply (UPS) backup for telemetry/plant controllers.
Emergency Response Plan and Procedures:	N	Y	-	Alarms for WWTP to be fed to SCADA with alarms sent to operators.
Waste water treatment plant				
Measures to prevent unintended discharges	Existing (Y/N)	Proposed (Y/N)	Applicability	Surveillance measure
Alarms / telemetry on waste water treatment plant:	N	Y	-	Alarms for WWTP fed to SCADA with alarms sent to operators.
Standby pumps at waste water treatment plant:	N	N	N/A	WwTP hydraulically fed by gravity.

Standby equipment or provisions in the event of interruption of the power supply such as a portable generator or equipment with automatic switchover:	N	Y	-	Connection provided for connecting mobile generator. Uninterruptible Power Supply (UPS) backup for telemetry/plant controllers.
Storage capacity at intake to the waste water treatment plant (SWO tank):	N	Y	-	45m^3 storm storage provided.
Groundwater monitoring:	N	N	-	-
Network				
Measures to prevent unintended discharges	Existing (Y/N)	Proposed (Y/N)	Applicability	Surveillance measure
Alarms / telemetry on pumping stations:	N	N	N/A	-
Alarms / telemetry on emergency overflows:	N	N	N/A	-
Standby pumps at pumping stations:	N	N	N/A	-
Standby equipment or provisions in the event of interruption of the power supply:	N	N	N/A	-
Storage capacity at pump stations:	N	N	N/A	-
Monitoring telemetry on SWOs:	N	N	N/A	-
Additional measures:	N	N	N/A	-

C.2.1 Supporting documents

Attachment C2 should be submitted (in accordance with the Guidance Document) as supporting information and the name assigned to it provided in the following table:

Table 30 - Supporting documents

Document type	Document name
Measures to prevent unintended discharges	**Attachment C.2:** Measures to Prevent Unintended Discharges

SECTION D: IMPACT ASSESSMENT

D.1. Receiving Waters

Complete the tables, below, as appropriate, for primary discharge, secondary discharge and storm water overflow(s) (SWO).

Table 31 - Receiving waters of Primary Discharge

Type (river, lake, groundwater, coastal, transitional):	River
Name and WFD reference:	Dripsey_020 (IE_SW_19D060400)
WFD Risk:	At Risk
WFD Status & year:	Good (2013-2018)
WFD Objective & timeframe for achievement:	High Status (2027)
Is the agglomeration identified as a significant pressure?	No
Has the discharges contributed to a deterioration in the quality of the water body?	The discharge from the wastewater treatment plant does not have an observable impact on the water quality (AER, 2020).
Protected areas in the vicinity of the discharges:	The Dripsey River is not designated a salmonid waterbody however the Lee River which the Dripsey River flows into, *ca*. 1.5 km downstream, is designated Salmonid. It should be noted that the Dripsey River (below the agglomeration discharge point) has achieved a Q4-5 (High, Unpolluted) status from 2011-2020. The are no designated shellfish waters or bathing waters in the downstream vicinity of the discharges.
Are there drinking water abstraction points downstream of waste water discharge points?	No downstream drinking water abstraction points on the River Dripsey. Drinking water abstraction point (Code: 0500PUB3401) on Inniscarra Lake/Reservoir is *ca.* 6.5 km downstream of the discharge point and *ca*. 5 km downstream of the confluence of the Dripsey River with the Lee/Inniscarra Lake. The reservoir covers an area of *ca*. 489 hectares, which offers significant dispersion capacity, and the Dripsey River has a current Q4-5 (High, Unpolluted) status before it meets the confluence. At the abstraction point the raw water intake and treated water is tested weekly for Cryptosporidium and Giardia. The risk assessments completed by IW/Cork County Council for this

	abstraction do not identify the Dripsey discharge as a risk.
European sites hydrologically connected:	The nearest European site downstream of the primary discharge is the Cork Harbour SPA (*ca*. 30 km d/s). The Great Channel Island SAC is located *ca*. 34 km d/s of the primary discharge.
Trophic status of transitional / coastal waters:	Not Applicable
Is there a groundwater protection scheme in place or to be provided in the vicinity of such discharge?	Not Applicable
Status of adjacent waterbodies: (e.g. upstream and downstream of the receiving waterbody)	Upstream: Dripsey_010 (Good) Downstream: Inniscarra Lake (Moderate) & LEE (CORK)_090 (Moderate)
95%ile River Flow upstream of primary discharge point: (if applicable)	0.4 m^3/s *
Receiving water monitoring stations: (code and distance from primary discharge point)	U/S RS19D060340 – *ca.* 1.5 km (**aSW1u**) RS19D060300 – *ca.* 2.8 km D/S RS19D060400 – *ca.* 1.0 km (**aSW1d**)

**Data as confirmed by the EPA Hydrometric & Groundwater Section on the 12th November 2021. Flow calculated based on a number of spot flows taken at 19035 Dripsey Mills and compared against the flow duration curve at synchronous station 19001 Ballea (OPW)*

Refer to **Attachment D.1: Map 8** which displays the receiving water designations in proximity to the discharges from the new WwTP

Table 32 - Receiving waters of secondary discharges

Type (freshwater, lake etc.)	Not applicable
Name and WFD Ref.	Not applicable
WFD Risk	Not applicable
WFD Status (year)	Not applicable
WFD Objective (year)	Not applicable
Is the agglomeration identified as a significant pressure?	Not applicable
Have the discharges contributed to a deterioration in the quality of the water body?	Not applicable

Protected areas downstream	Not applicable
Are there drinking water abstraction points downstream of waste water discharge points?	Not applicable
European sites hydrologically connected	Not applicable
Trophic status of transitional / coastal waters	Not applicable
Is there a groundwater protection scheme in place or to be provided in the vicinity of such discharge?	Not applicable
Status of adjacent waterbodies (e.g. upstream and downstream of the receiving waterbody)	Not applicable
95%ile River Flow upstream of secondary discharge point (if applicable)	Not applicable
Receiving water monitoring stations upstream and downstream (code and distance from secondary discharge point	Not applicable

Table 33- Receiving waters of discharges from SWOs (2 no. new SWO's from new WwTP)

Receiving Waters name and code	WFD status	No. of compliant SWOs[1]	No. of SWOs under assessment or remediation	Is the SWOs identified as a significant pressure?	WFD objective and date
Dripsey River Dripsey_020	Good	2	0	No	High Status (2027)

[1] Compliant with DoECLG criteria set out in *'Procedures and Criteria in Relation to Storm Water Overflows'*.

Table 34 - Ambient monitoring – upstream monitoring point

EDEN Code (where applicable):	RS19D060340	
Licence Code:	aSW1u	
Monitoring Location:	147700E	075502N
Point Type:	River	
Name of Receiving Water	Dripsey River (Dripsey_020)	

Table 35 - Ambient Monitoring – upstream monitoring results[1] (Data: 2019-June 2021: Source: catchments.ie)

Parameter	pH (pH Unit)	BOD (mg/l)	Ortho-phosphate (mg/l)	Total Ammonia (mg/l)	DO (mg/l)	DO (%sat)	Total Nitrogen (mg/l)	Temp (°C)
Number of Samples	12	12	12	12	13	14	11	14
Max result	7.7	2.5	0.084	0.702	13.9	114	4.3	14.1
Min result	7.2	0.1	0.015	0.01	9.5	93	2.4	5.1
Average result	7.48	0.98	0.035	0.0784	11.07	99.9	3.5	10.9
Mean EQS as per S.I. No. 77/2019 **Good Status ***		≤1.5	≤ 0.035	≤0.065				
Mean EQS as per S.I. No. 77/2019 **High Status ***		≤1.3	≤ 0.025	≤0.04				
Overall compliance with relevant EQS **Good Status ***		Yes	Yes	No				
Overall compliance with relevant EQS **High Status ***		Yes	No	No				

*Mean High & Good status under S.I. No. 77 of 2019
Note: Where data was reported as less than the limit of detection, LOD/2 was applied

Table 36 - Ambient monitoring results – downstream

EDEN Code (where applicable):	RS19D060400	
Licence Code:	aSW1d	
Monitoring Location:	148775E	073890N
Point Type:	River	
Name of Receiving Water	Dripsey River (Dripsey_020)	

Table 37 - Ambient Monitoring – downstream monitoring results[1] (Data 2019-June 2021: Source: catchments.ie)

Parameter	pH (pH Unit)	BOD (mg/l)	Ortho-phosphate (mg/l)	Total Ammonia (mg/l)	DO (mg/l)	DO (%sat)	Total Nitrogen (mg/l)	Temp (°C)
Number of Samples	12	12	12	12	13	13	11	13
Max result	8.1	2.6	0.101	0.289	13	115	4.9	14.8
Min result	7.4	0.5	0.012	0.01	9.6	95	2.6	4.9
Average result	7.70	1.00	0.041	0.0488	11.05	101.6	3.8	10.9
Mean EQS as per S.I. No. 77/2019 **Good Status** *		≤1.5	≤ 0.035	≤0.065				
Mean EQS as per S.I. No. 77/2019 **High Status** *		≤1.3	≤ 0.025	≤0.04				
Overall compliance with relevant EQS **Good Status** *		Yes	No	Yes				
Overall compliance with relevant EQS (**High Status**)		Yes	No	No				

[1]Where data was reported as less than the limit of detection, LOD/2 was applied.

Table 38 - Proposed Receiving Water Monitoring **(as per D0426-01)**

EDEN Code (where applicable)	Licence Code	Monitoring Location		Point Type	Name of Receiving Water
RS19D060340	aSW1u	147700E	075502N	River	Dripsey River (Dripsey_020)
RS19D060400	aSW1d	148775E	073890N	River	Dripsey River (Dripsey_020)

Table 39 - Proposed Monitoring Regime **(as per D0426-01)**

Parameter	Units	Monitoring Frequency	Analysis method/Technique
pH	pH Unit	Quarterly	pH meter/electrode
BOD	mg/l	Quarterly	Standard Method
DO	% O2	Quarterly	Standard Method
DO	mg/l	Quarterly	Standard Method
Orthophosphate (as P)	mg/l	Quarterly	Standard Method
Ammonia	mg/l	Quarterly	Standard Method
Temperature	˚C	Quarterly	Thermometer
Total Nitrogen	mg/l	Quarterly	Standard Method
Visual inspections	N/A	Weekly	Sample and examine for colour and odour

D.2 Assessment of impact on receiving waters

This part of the application form collects reports on the assessment of the impact of existing and proposed waste water discharges on the environment including any environmental medium other than that into which the discharges take place or are to take place. The impact assessment reports address at least the impact on the quality of receiving waters (surface water or groundwater) and may, as appropriate, address European sites.

Where a Natura Impact Statement (NIS) does not accompany the application, you are required to provide an Appropriate Assessment (AA) screening report.

Is this application accompanied by an NIS?	No

D.2.1 Supporting document

The impact Assessment Report should be submitted (as Attachment D2) in accordance with the guidance and the name assigned to the attachment(s) provided in the table below.

Table 40 - Assessment Reports.

Document type	Document name
Impact assessment report	**Attachment D.2.1**: Impact Assessment Report
Natura Impact Statement	Not Applicable
AA Screening Report	**Attachment D.2.2**: AA Screening Report
Waste Assimilative Capacity	**Attachment D.2.3**: Waste Assimilative Capacity
Priority Substance Assessment Report	**Attachment D.2.4**: Priority Substance Assessment Report

D.3 Closing Remarks

This part of the application form is a short statement summarising the environmental outcome of your application and assessment.

State the environmental outcome of your application and assessment and reasons for same:

Answer here:

The main objective of the Dripsey WwTW upgrade project was to design and construct a new WwTP and outfall pipeline to serve the agglomeration of Dripsey (Model Village) and remedial network upgrade works to ensure compliance with the WWDL - Licence Register Number: D0426-01, issued by the EPA in accordance with the Waste Water Discharge (Authorisation) Regulations (S.I. No. 684 of 2007) (now S.I. No. 214 of 2020) on the 30th July 2012.

The Dripsey WwTW has been designed to ensure that emissions from the plant will not result in the contravention of EU Directives and National Regulations.

The proposed effluent standards for the new Dripsey WwTP, in compliance with the WWDL D0426-01 ELVs, give effect to the principle of the Combined Approach as defined in Waste Water Discharge (Authorisation) Regulations, 2007 to 2020 in that they accommodate the Urban Waste Water Regulations and the status of the receiving waterbody, the Dripsey River (Dripsey_020).

The 2 no. SWOs have been designed in compliance with the definition of *'Storm Water Overflow'* as per Regulation 3 of the Waste Water Discharge (Authorisation) Regulations, 2007, as amended and the criteria as set out in the DoEHLG '*Procedures and Criteria in Relation to Storm Water Overflows'*, 1995.

The remedial network upgrade works completed will mitigate the risk of hydraulic impact to the WwTP, will mitigate the risk of dilution of biological load damaging the WwTP process, will retain additional reserve storage capacity in foul network, and will reduce overflows from the stormwater overflows.

The Dripsey WwTP is not listed as a significant pressure in At Risk waterbodies in the 2nd and draft 3rd cycle catchment assessments. The significant pressure for the Dripsey_020 has been determined as Hydromorphology (overgrazing). The discharges from the Dripsey WwTP will not contribute to this significant pressure, and its resultant adverse effects on this waterbody.

Based on the above, and the 2021 WAC calculations, along with the conclusions of the AA Screening Report, Priority Substances Assssment Report and Impact Assssment Report, which support this review application, it is considered that the operational discharges from the Dripsey agglomeration will have no significant effects on the receiving aquatic environment, alone or in combination with other plans and projects.

In summary, Irish Water is committed to ensuring that the Dripsey WwTW operates in a manner that supports the achievement of the water body objectives under the Water Framework Directive, and their obligations under the Birds and Habitats Directives and all applicable Directives and National Regulations.

The effluent discharge standards (*i.e.,* ELVs as per D0426-01: BOD 25mg/l, Total Ammonia 10mg/l and Ortho-P 5mg/l), the design of the overflows, along with the positive residual effects from the remedial network upgrade works, will ensure that the operational discharges from the agglomeration (i) contribute towards maintaining at least Good status of the Dripsey_020, (ii) contribute towards achieving its High WFD status Objective by 2027 in accordance with the European Union Environmental Objectives (Surface Waters) (Amendment) Regulations 2019 (S.I. No. 77 of 2019) and (iii) will ensure that there is no environmental risk posed to the receiving water environment as a result of the discharges from the agglomeration.

SECTION E: DECLARATION

E.1. Declaration

The Signed Declaration template should be downloaded from the EPA website (www.epa.ie), completed and submitted in accordance with the Guidance Document.

E.1.1 Supporting documentation

The name assigned to the Signed Declaration document should be provided in the following table:

Table 41 - Signed Declaration document name

Document type	Document name
Declaration	**Attachment E.1:** Signed Declaration

END

ATTACHMENTS

SECTION A: NON-TECHNICAL SUMMARY

Attachment A.1: Non-Technical Summary

A.1.1: Non-Technical Summary

A.1.2: Map 1 - Area of Interest

SECTION B: GENERAL

Attachment B.2: Agglomeration Details

Attachment B.2.1: Map 2 - Agglomeration Plan

Attachment B.2.2: Map 3 - WwTP Site Location Plan

Attachment B.2.2: Map 4 – Location of Primary Discharge Point

Attachment B.2.2: Map 5 – Location of Storm Water Overflows

Attachment B.2.2: Map 6 – Location of Ambient Monitoring Points

Attachment B.2.3: Waste Water Process Flow Diagram

Attachment B.3: Planning Documentation

B.3: Part 8 Planning Approval

Attachment B.4: Notices and Advertisements

B.4.1: Newspaper Notice

B.4.2: Site Notice

B.4.3: Map 7 - Site Notice Location

Attachment B.5: Preliminary Examination/EIA Screening

B.5: Preliminary EIA Screening Report

Attachment B6: Compliance with EU Directives & National Regulations

B.6: Compliance with EU Directives & National Regulations

Attachment B.8: Improvement Programme

B.8: Improvement Programme

SECTION C: DISCHARGES & MONITORING

Attachment C.1 **Discharges and Monitoring**

C.1: Discharges and Monitoring

Attachment C.2 **Measures to Prevent Unintended Discharges**

C.2: Measures to Prevent Unintended Discharges

SECTION D: IMPACT ASSESSMEMENT

Attachment D.1: **Receiving Waters**

D.1: Map 8 - Receiving Water Designations

Attachment D.2: **Assessment of Impact on Receiving Waters**

D.2.1: Impact Assessment Report

D.2.2: AA Screening Report

D.2.3: Waste Assimilative Capacity (WAC)

D.2.4: Priority Substance Assessment Report

SECTION E: DECLARATION

Attachment E.1 **Declaration**

E.1: Signed Declaration