



# Waste Water Discharge Authorisation

## Application Form

**EPA Ref. N<sup>o</sup>:**  
*(Office use only)*

**Environmental Protection Agency**

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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](http://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	<b>Attachment A.1.1 - Non-Technical Summary</b>

## 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)	<b>D0126-01</b>
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If A is applicable, provide the following information:

Grounds for review on which the application is being made:
<p>The existing Wastewater Discharge Licence (WWDL) D0126-01 for the Macroom WW Agglomeration was issued to Uisce Eireann on 15<sup>th</sup> July 2013, with a Technical Amendment issued on 19<sup>th</sup> December 2016.</p> <p>This WWDL Review Application is seeking the following alterations to the current WWDL D0126-01:</p> <ol style="list-style-type: none"> <li>1) An alteration to <i>Schedule A: Discharges and Discharge Monitoring</i> to decrease the Ammonia ELV from 2mg/l to 1.7mg/l and Ortho-P from 1mg/l to 0.8mg/l, based on the findings of the Waste Assimilative Capacity (WAC) Assessment completed for the Primary Discharge from the agglomeration;</li> </ol>

- 2) An alteration to the PE of the agglomeration, which will be increased from present 6,000PE to 8,300PE, when upgrade works are complete;
- 3) Update of the Storm Water Overflows Register recorded in Schedule A.3 of the WWDL.

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

Date on which the waste water works became / becomes operational:	N/A
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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*:	Uisce Eireann
Address:	Colvill House 24-26 Talbot Street Dublin 1 D01 NP86
CRO Number:	530363
Tel:	01 892 5000
e-mail:	<a href="mailto:WastewaterLicensingSouthern@water.ie">WastewaterLicensingSouthern@water.ie</a>

*\*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*:	Waste Water Discharge Authorisation Specialist
Address:	Uisce Eireann, Colvill House, 24-26 Talbot Street, Dublin 1, D01 NP86
Tel:	01 8925000
e-mail:	<a href="mailto:WastewaterLicensingSouthern@water.ie">WastewaterLicensingSouthern@water.ie</a>

*\*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:	Macroon
Name of townland or townlands of the agglomeration served by a waste water works to which the application relates:	Sleven East Sleven West Gurteenroe Codrum
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**

<p>Description of the existing waste water works:</p>	<p>Macroon is a small town located approximately 30km west of Cork City. The existing Macroon Sewerage Scheme consists mainly of a combined collection network. Flows from the east of the catchment gravitate directly to the existing Wastewater Treatment Plant (WWTP), while flows from the west gravitate to Masseytown Pumping Station (PS), from where they are pumped east to a high point, from which they gravitate to the WWTP. 4 No. further PS on the network also service residential developments.</p> <p>The existing Macroon WWTP which is accessed directly off the Saint Colman’s Park residential development public road has a design capacity of 6,000 Population Equivalent (PE)</p> <p>The existing WWTP includes the following treatment stages:</p> <ul style="list-style-type: none"> <li>• Storm flow separation chamber using high level weir, with Storm Water Overflow (SW002) flowing to the Sullane River via the Primary Treated Effluent Outfall (Co-ords 134957E, 72953N);</li> <li>• Preliminary treatment, consisting of a single 6mm automatic screen with a high-level bypass and 30mm manually raked screen downstream of the fine screen;</li> <li>• Secondary treatment, consisting of the following:             <ul style="list-style-type: none"> <li>○ Biological treatment: 1,240m<sup>3</sup>, 1.5m deep, single oxidation ditch fitted with 3no. vortex aerators and 1 No. original surface aerator;</li> <li>○ Secondary settlement: single 15.2m diameter settlement tank with half bridge scraper;</li> </ul> </li> </ul>
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	<ul style="list-style-type: none"> <li>• Ferric sulphate IBC dosing chemical at the outlet of the inlet works - currently not operational;</li> <li>• Sludge treatment             <ul style="list-style-type: none"> <li>○ 26.5m<sup>3</sup>sludge holding/thickening tank;</li> <li>○ Sludge dewatering provided by a single screw press with a capacity of 650kg/d and ancillary polymer make-up unit.</li> </ul> </li> <li>• Following treatment, the secondary treated effluent from the WWTP is discharged by gravity to the Sullane river (which borders the WWTP site) through a 20m long outfall (SW001) (Co-ords 134957E, 72953N).</li> </ul>
<p>Description of proposed development, if any, to which the application relates:</p>	<p>It is proposed to increase the capacity of the WWTP to cater for the 25 year design projections as follows:</p> <ul style="list-style-type: none"> <li>• 25-year Design Projection: 8,300 PE</li> </ul> <p>A Waste Assimilative Capacity (WAC) Assessment Report was carried out which, based on the above referenced design projections, determined that the River Sullane has sufficient assimilative capacity to accommodate the discharge from the upgraded WwTP. As such, following completion, the proposed Macroom WWTP upgrade will meet the ELVs as follows:</p> <ul style="list-style-type: none"> <li>• pH - 6-9</li> <li>• BOD - 25mg/l</li> <li>• COD - 125mg/l</li> <li>• Suspended Solids - 25mg/l</li> <li>• Ammonia - 1.7mg/l</li> <li>• Orthophosphate - 0.8mg/l</li> </ul> <p>The proposed upgrade works will comprise of the following:</p> <ul style="list-style-type: none"> <li>• Preliminary treatment:             <ul style="list-style-type: none"> <li>○ Upgrade and replacement of the existing storm water overflow (SWO) immediately upstream of the inlet works</li> </ul> </li> </ul>



	<p>with new screened Dual SWO &amp; EO (SW002);</p> <ul style="list-style-type: none"> <li>○ Decommissioning of the existing preliminary treatment works including the screen;</li> <li>○ Construction of a new inlet works and screening system;</li> <li>○ Construction of a new grit removal system;</li> <li>○ Construction of a new full flow to treatment (FFT) pumping station; and</li> <li>○ Construction of a new stormwater storage tank, equipped with storm water pumps.</li> </ul> <ul style="list-style-type: none"> <li>● Secondary treatment: <ul style="list-style-type: none"> <li>○ Decommissioning of the existing oxidation ditch;</li> <li>○ Construction of a new flow splitting chamber;</li> <li>○ Construction of 2 No new integrated fixed-film activated sludge (IFAS) reactor tanks (Aeration Tanks);</li> <li>○ Decommissioning of the existing final settlement tank;</li> <li>○ Construction of 2 No. new final settlement tanks;</li> <li>○ Construction of both return &amp; waste activated sludge (RAS/WAS) pumping stations;</li> <li>○ Installation of a lime batching &amp; dosing facility, and;</li> <li>○ Installation of ferric sulphate dosing system including bundled chemical storage tank.</li> </ul> </li> <li>● Sludge management system: <ul style="list-style-type: none"> <li>○ Decommission existing sludge holding tank;</li> <li>○ Construction of a new sludge picket fence thickener (PFT);</li> <li>○ Construction of an odour control system;</li> <li>○ Installation of a new polymer make-up system, to be located within the existing building which is to be retained;</li> </ul> </li> </ul>
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	<ul style="list-style-type: none"><li>○ Decommissioning of the existing dewatering equipment within the existing building; and</li><li>○ Installation of a new sludge dewatering equipment/system (to be installed within the existing building, which is to be retained).</li><li>● Outfall:<ul style="list-style-type: none"><li>○ Construction of a new final effluent sampling manhole on the existing outfall pipeline, within the WWTP site;</li><li>○ Discharge of final effluent through the existing outfall to the River Sullane – SW001 (Co-ords 134957E, 72953N).</li></ul></li><li>● Ancillary works:<ul style="list-style-type: none"><li>○ Construction of a solar PV panel installation capable of a maximum power generation of 42.32kWp;</li><li>○ Construction of a new sheet pile flood protection wall. This wall is to be constructed within the site boundary to a level of 300mm above the 0.1% Annual Exceedance Probability (AEP) (1-in-1000 year) flood level;</li><li>○ New standby energy generator &amp; bunded fuel tank;</li><li>○ Relocation of the existing shed from the southern side of the WWTP site to the northern side of the WWTP site;</li><li>○ Demolition of existing sheds adjacent to the site entrance to create a designated area with a separate site entrance to be used by Cork County Council Roads Department;</li><li>○ Construction of a new control and administration building;</li><li>○ Construction of new surface water drainage system with oil interceptor and attenuation system, in accordance with Sustainable Drainage Systems (SuDS); and;</li></ul></li></ul>
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	<ul style="list-style-type: none"> <li>○ Site landscaping and finishes.</li> </ul>
<p>Number and type of waste water discharges from the waste water works including proposed waste water discharges:</p>	<p>The following discharges will be present within the upgraded Macroom sewage scheme:</p> <p><b><u>Macroom WwTP:</u></b></p> <ul style="list-style-type: none"> <li>● SW001:             <ul style="list-style-type: none"> <li>○ Primary Discharge Point</li> <li>○ Location: 134957E, 72953N</li> </ul> </li> <li>● SW002:             <ul style="list-style-type: none"> <li>○ Dual Storm Water Overflow (SWO) &amp; Emergency Overflow (EO)</li> <li>○ From: High Level Overflow from upgraded Formula A Chamber (upstream of Inlet Works)</li> <li>○ Location: 134957E, 72953N (discharges through Primary Discharge SW001 outfall pipe)</li> </ul> </li> </ul> <p>SW004</p> <ul style="list-style-type: none"> <li>○ Storm Water Overflow (SWO)</li> <li>○ From: Proposed Storm Water Holding Tank</li> <li>○ Location: 134957E, 72953N (discharges through Primary Discharge SW001 outfall pipe)</li> </ul> <p><b><u>Masseytown Pumping Station:</u></b></p> <ul style="list-style-type: none"> <li>● SW003             <ul style="list-style-type: none"> <li>○ Dual Storm Water Overflow (SWO) &amp; Emergency Overflow (EO)</li> <li>○ From: Masseytown Pumping Station</li> <li>○ Location: 133877E, 73203N</li> </ul> </li> </ul>
<p>Is the network assessment complete?</p>	<p>Yes</p>
<p>If the answer above is no, in what year is the assessment expected to be complete?</p>	<p>N/A</p>

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

Site contact Name*:	Regional Wastewater Compliance Specialist
Address of waste water treatment plant (including Eircode):	Macroom Waste Water Treatment Plant Sleeven East, Macroom, Co. Cork
Telephone Number:	01 8925000
e-mail:	<a href="mailto:wastewatercompliancesouthern@water.ie">wastewatercompliancesouthern@water.ie</a>
Grid ref (6E, 6N)	134945E, 72932N
Description of the treatment process	<p>A brief description of the proposed treatment process is as follows:</p> <p><b>Formula A Chamber:</b> Flows entering the WWTP shall be directed through a Formula A Chamber which shall be split into 2 No. cells divided by a weir. Flows shall enter the foul side of the chamber and on normal conditions (up to Formula A) shall be forwarded to the inlet works. If flows surpass Formula A, they will overflow through the weir to the storm side before been directed through a screen and onto the storm tank. Should the storm tank be full to capacity, the effluent will overflow via SW002 directly to the river through Primary Discharge outfall pipe @ 134957E, 72953N.</p> <p><b>Inlet Works:</b> The proposed inlet works shall consist of the following:</p> <ul style="list-style-type: none"> <li>• Inlet Screening;</li> <li>• Full Flow to Treatment Pumping (FFT) Pumping Station;</li> <li>• Grit and Fat, Oils &amp; Grease (FOG) Removal.</li> </ul> <p>The first stage of the inlet works, effluent shall be screened to remove any large debris and solids. This shall be carried out by 2 No. mechanical band screens which shall be capable of screening up to 6mm in 2D. A further bypass screen is also provided which shall be capable of screening up to 19mm.</p> <p>Following the initial screening, effluent shall be directed towards the FFT pumping station. Due to the existing ground profile at the Macroom WWTP, the gravity inlet sewer and the requirement to discharge to the river, gravity flow through the WWTP will not be achievable and a pumping station will be required to forward flows up to FFT PS to the grit trap and onto the biological treatment process. The FFT PS shall consist of a wet well equipped with 2 No. pumps which shall operate on a duty / standby basis. The FFT shall include for an overflow pipeline which shall be directed towards the storm tank.</p> <p>Following influent pumping, a grit removal stage will be provided through a combination of air agitation (coarse bubble) and settling. The grit removal</p>

unit should be capable of removing 95% of grit particles by weight of incoming grit, with grit being defined as all inorganic particles greater than 0.2mm diameter with a specific gravity equal to or greater than 2.65mm at a settling velocity of 0.3m/s. Additionally, due to the sensibility of the IFAS process with FOG, the unit has been designed to ensure 70% reduction of removable FOG and a maximum outlet concentration of 50mg/l, thus minimizing the risk potential impact on the downstream process units. Collected grit and FOG will be forwarded to a grit classifier and FOG concentrator respectively to provide further treatment of collected materials.

**Secondary Treatment:**

Secondary Treatment shall consist of the following:

- Alkalinity Dosing;
- Integrated Fixed-Film Activated Sludge (IFAS) Reactors;
- Secondary Settlement Tanks;
- Ferric Sulphate Dosing;
- Return and Waste Sludge Pumping Station;
- Scum Pumping Station.

Alkalinity dosing is included as part of the treatment process in order to maintain a stable pH more favourable to biological growth. In order to maintain the required alkalinity the following measures have been included as part of the treatment process:

- Provision of an anoxic zone within the IFAS reactor to recover of the alkalinity consumed by the nitrification reaction;
- Alkalinity boosting through the use of calcium hydroxide/hydrated lime.

IFAS process was selected as the preferred process for the upgraded Macroroom WWTP. The proposed design includes for 2 No. IFAS reactors each sized for 50% of the incoming loads, which will facilitate maintenance of the plant when required without disrupting significantly the treatment process. Each of the proposed IFAS reactor will include 1 No. anoxic cell for denitrification, 2 No. aerobic cells for carbonaceous oxidation and 1 No. deaeration cell.

Ferric sulphate shall be added to the effluent discharging from each IFAS reactor in order to lower orthophosphate within the effluent to the required level.

Following biological treatment, the IFAS effluent will be forwarded to a secondary settlement stage, where both biological sludge and chemical sludge generated by the chemical phosphorus removal process will separate from secondary treated effluent by gravity. Settled sludge will then be collected into a central hopper for sludge return and wasting, whilst treated effluent will flow over a weir to the final effluent chamber before discharging to the River Sullane @ SW001 (Co-ords 134957E, 72953N).

Return activated sludge (RAS) shall be collected within the secondary settlement tank and shall be returned to the IFAS to boost the biological process via 2 No. dry mounted pumps which shall operate on a duty / standby basis. Waste activated sludge shall be pumped to the picket fence thickener (PFT) via a further 2 No. dry mounted pumps which shall operate on a duty / standby basis. Scum collected in the secondary settlement tanks will gravitate to a common scum sump, where flows will be forwarded to the PFT

**Stormwater Treatment:**

As all flows to the storm tank via the Formula A Chamber & FFT Pumping Station will be screened by the inlet works 6mm fine screen or Formula A weir 6mm screen. Due to the profile of the existing sewer arriving to the WWTP, it will not be possible to discharge wastewater from the storm tank to the river by gravity without surcharging the upstream network, and discharge from the storm tank will therefore be through pumping under normal operation (SW004).

The storm pumps will be located in the storm tank itself, thus removing the need for an additional sump and facilitating constructability of the project. Pumped flows will be pumped to a high-level chamber where they will combine with the treated effluent prior to discharge through the existing Primary Discharge outfall to the River Sullane @ SW001 (Co-ords 134957E, 72953N).

In the event of a power failure, an actuated valve will fail in the closed position at the inlet to the storm tank to prevent localised flooding, and a separate overflow will discharge from the upstream Formula A Chamber weir directly to the river (SW002). It should be noted that this will require surcharging of the upstream network.

Once incoming flows subside below FFT, stormwater stored in the stormwater holding tank will be returned to the FFT PS by 2 No. pumps located in a sump within the tank.

**Sludge Treatment Process:**

Sludge treatment shall consist of the following:

- PFT;
- Sludge Dewatering;
- Mixed Liquor Returns (MLRs);
- Odour Abatement.

PFTs consist in circular roofed tank fitted with a bottom scraper and a conical collecting bottom. Sludge is fed through a central drum and released at a low velocity near the surface of the tank, allowing solids to settle to the bottom of the tank by gravity. The scrapers then slowly move the settled, thickened solids to a discharge pipe at the bottom of the tank to allow for their pump-out to the sludge dewatering system. A v-notch weir located at the top of the tank allow the supernatant to flow by gravity to the mixed liquor return pumping station. The proposed system will be

	<p>able to achieve a thickened sludge concentration of at least 3% dried solids, thereby minimising the required hydraulic capacity of the dewatering feed pumps and dewatering system.</p> <p>As part of the project, it is proposed to retain the existing sludge dewatering system. To increase the robustness of the existing system, a second standby dewatering feed pump be provided.</p> <p>A new MLRs pumping system shall be provided in order to return MLRs directly to the flow splitting chamber to the IFAS reactors.</p> <p><b>Ancillary Works:</b> The following ancillary works are proposed to supplement the proposed development:</p> <ul style="list-style-type: none"> <li>• Standby Power Generator: Provision of a 440kVa generator and associated bunded fuel tank able to power the entire WwTP during prolonged power failure events;</li> <li>• Solar Panels: Construction of 42 kWp photovoltaic (PV) solar panels on ground mounted frames on the north western area of the site. The PV panels shall be used to supplement the energy demands of the proposed WWTP &amp; will be arranged with a panel area of 185sqm approximately.</li> </ul>
Primary discharge point reference ID:	<p>SW001</p> <p>Headwall to the River Sullane at Grid reference: E134957 and N72953</p>

*\*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	<b>Attachment B.2.1 - Agglomeration Boundary Map</b>
B.2-2 Site map including discharge and monitoring points.	<b>Attachment B.2.2.1 - Site Location Map</b> <b>Attachment B.2.2.2 - Proposed Site Layout</b> <b>Attachment B.2.2.3 - Discharge Points Location Map</b> <b>Attachment B.2.2.4 - Monitoring &amp; Sampling Points Location Map</b>
B.2.3 Waste water process flow	<b>Attachment B.2.3 – Proposed Waste Water Process Flow</b>

### 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:	8,300 PE (Proposed Design Capacity of upgraded WWTP)
Maximum average weekly population equivalent of the agglomeration:	5,092 PE
Existing Organic Capacity of the waste water treatment plant - As Constructed or nominal design (p.e.)	6,000 PE
Proposed Organic Capacity of the waste water treatment plant - As per planning permission or design (p.e.)	8,300 PE
Current Collected Load (p.e.):	5,092 PE
Remaining Organic Capacity (p.e.):	908 PE
Is the plant overloaded – organic loading?	No
Current Peak Hydraulic Capacity of the waste water works–As Constructed or nominal design (m <sup>3</sup> /day):	1,318
Proposed Peak Hydraulic Capacity of the waste water works–As per planning permission or nominal design (m <sup>3</sup> /day):	5,607
Current and proposed dry weather flow (DWF) to the treatment plant (m <sup>3</sup> /day):	Current: 1,137 Proposed: 1,868
Current average hydraulic loading to the treatment plant (m <sup>3</sup> /day):	1,563
Remaining Hydraulic Capacity (m <sup>3</sup> /day):	-245
Is the plant hydraulically overloaded?	Yes



### 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	7,557	91%
Industrial waste water load	743	9%
Leachate	0	0
Waste water to be conveyed and discharged only (i.e.by pass the WWTP)	0	0
Total	8,300	100%

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

Not Applicable
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## 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
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:	22/4630
Planning Appeal Reference Number (if relevant):	Not Applicable
Planning Authority Name / An Bord Pleanála:	Cork County Council
Date of Planning Decision (Final Grant):	2 <sup>nd</sup> May 2023
Brief description:	<p>Upgrade Works at the WWTP</p> <p>1. Construction of a new storm overflow and flow splitting chamber, inlet works including grit removal system &amp; full flow to treatment pumping station, 2 No. new integrated fixed-film activated sludge reactor tanks (Aeration Tanks), 2 No. final settlement tanks, final water sampling manhole while retaining the existing outfall to the River Sullane, return &amp; waste activated sludge pumping stations, chemical building including lime &amp; ferric sulphate dosing systems with bunded chemical storage tanks, 1 No. storm water storage tank equipped with storm water pumps, 1 no. sludge picket fence thickener, odour control system, a sheet pile flood protection wall within the site boundary, boundary treatment including a weld mesh</p>

	<p>security fence, new internal access road &amp; public lighting.</p> <p>2. Construction of new control and administration building.</p> <p>3. Decommissioning of the existing wastewater treatment plant, equipment and associated structures as part of the upgrade works.</p> <p>4. Construction of 42 kWp photovoltaic (PV) solar panels on ground mounted frames on the north western area of the site. The PV panels shall be used to supplement the energy demands of the proposed WwTP &amp; will be arranged with a panel area of 185sqm approximately.</p> <p>5. Establishment of a designated area to be utilized by Cork County Council Roads Department and construction of a new entrance point.</p> <p>6. All associated site development works above and below ground.</p>
<p>EIAR required with Planning Application?</p>	<p>No</p>
<p>NIS required with Planning Application</p>	<p>Yes</p>
<p>Confirm that the supporting documentation is provided:</p>	<p>Yes</p> <p><b>Attachment B.3.2.1 – 22/04630 Planning Permission</b></p> <p><b>Attachment B.3.2.2 - Planners Report 1</b></p> <p><b>Attachment B.3.2.3 - Planners Report 2</b></p>

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):	Not Applicable
Planning Authority Name / An Bord Pleanála:	Not Applicable
Date of application:	Not Applicable
Brief description:	Not Applicable
EIAR required with Planning Application?	Not Applicable
NIS required with Planning Application	Not Applicable
Confirm that the supporting documentation is provided:	Not Applicable

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
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### 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)	<b>Attachment B.3.2.2 - Planners Report 1</b>  (Refer to page 4 of 5)
	- a copy of relevant grant of planning permission AND planners report	<b>Attachment B.3.2.1 – 22/04630 Planning Permission Attachment B.3.2.2 - Planners Report 1 Attachment B.3.2.3 - Planners Report 2</b>
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)	134921E	72867N
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### 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:	<b>Attachment B.4.1 - Newspaper Notice</b>
Site notice:	<b>Attachment B.4.2 - Site Notice</b>
Map of site notice location:	<b>Attachment B.4.3 - Location of Site Notice</b>
Water Services Authority notice:	<b>Attachment B.4.4 - Water Services Authority Notice</b>
EIA Portal Confirmation notice:	<b>Not Applicable</b>

## 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?	<b>Attachment B.5.1 - EIA Screening Report</b>
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 Treatment Directive	<b>No</b>
C	Are there other competent authorities conducting EIA for the development or proposed development to which this application relates?	<b>No</b>
D	If 'Yes' to C, provide the name of the competent authority and consent reference	<b>Not Applicable</b>

If the answer to either A or B is 'Yes', the EIAR must accompany the 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	<b>Attachment B.5.1 - EIA Screening Report</b>

## 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	<b>Attachment B.6 - Compliance with EU Directives &amp; National Regulations</b>



## 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?	<b>No</b>
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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?	Not Applicable
B	If no to A, is a Foreshore Act Licence application under consideration by the relevant competent authority?	Not Applicable
C	Was EIA carried out or will be carried out by the Foreshore Act Licence competent authority?	Not Applicable
D	If 'Yes' to C, confirm that the same EIAR was submitted to Foreshore competent authority as accompanied this WWDA application:	Not Applicable
E	If 'Yes' to A, provide: <ul style="list-style-type: none"> <li>- Licence Reference Number; and</li> <li>- date of grant of consent:</li> </ul>	Not Applicable
G	If 'Yes' to B, provide application reference number	Not Applicable

### 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
<b>If 'Yes' to A</b>	Foreshore Act Licence:	Not Applicable
<b>If 'Yes' to C</b>	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
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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)	Schedule C.1: 1. Recommence use of phosphorous removal
Date for completion of Improvement Programme in the licence:	01/08/2013
Has the date for completion expired? (Enter N, N/A or Y)	Yes
Status of works: <i>e.g. (i) Not Started; (ii) At planning stage; (iii) Work ongoing on-site; (iv) Commissioning phase; (v) Completed; (vi) Delayed</i>	It is anticipated that construction will commence Q4 2023 and will be completed by December 2025.
Irish Water's expected timeframe for completing the work	2025
Comments:	

### 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:	Not Applicable
Improvement description:	Not Applicable
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)	Not Applicable
Status of works:	Not Applicable
Expected Completion date:	Not Applicable
Comments:	

### 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:	SW001
Type: (primary discharge / secondary discharge/ storm water overflow)	Primary Discharge
Improvement works description:	<p>The proposed upgrade works will comprise of the following:</p> <ul style="list-style-type: none"> <li>• Preliminary treatment: <ul style="list-style-type: none"> <li>○ Upgrade and replacement of the existing storm water overflow (SWO) immediately upstream of the inlet works with new screened Dual SWO &amp; EO (SW002);</li> <li>○ Decommissioning of the existing preliminary treatment works including the screen;</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>○ Construction of a new inlet works and screening system;</li> <li>○ Construction of a new grit removal system;</li> <li>○ Construction of a new FFT pumping station; and</li> <li>○ Construction of a new stormwater storage tank equipped with storm water pumps.</li> <li>● Secondary treatment:             <ul style="list-style-type: none"> <li>○ Decommissioning of the existing oxidation ditch;</li> <li>○ Construction of a new flow splitting chamber;</li> <li>○ Construction of 2 No new IFA) reactor tanks (Aeration Tanks);</li> <li>○ Decommissioning of the existing final settlement tank;</li> <li>○ Construction of 2 No. new final settlement tanks;</li> <li>○ Construction of both RAS/WAS pumping stations,</li> <li>○ Installation of a lime batching &amp; dosing facility, and;</li> <li>○ Installation of ferric sulphate dosing system including banded chemical storage tank.</li> </ul> </li> <li>● Sludge management system:             <ul style="list-style-type: none"> <li>○ Decommission existing sludge holding tank;</li> <li>○ Construction of a new sludge PFT;</li> <li>○ Construction of an odour control system;</li> <li>○ Installation of a new polymer make-up system, to be located within the existing building which is to be retained;</li> <li>○ Decommissioning of the existing dewatering equipment within the existing building; and</li> <li>○ Installation of a new sludge dewatering equipment/system (to be installed within the existing building, which is to be retained).</li> </ul> </li> <li>● Outfall:             <ul style="list-style-type: none"> <li>○ Construction of a new final effluent sampling manhole on the existing outfall pipeline, within the WWTP site;</li> </ul> </li> </ul>
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	<ul style="list-style-type: none"> <li>○ Discharge of final effluent through the existing outfall to the River Sullane – SW001 (Co-ords 134957E, 72953N).</li> <li>● Ancillary works:             <ul style="list-style-type: none"> <li>○ Construction of a solar PV panel installation capable of a maximum power generation of 42.32kWp</li> <li>○ Construction of a new sheet pile flood protection wall. This wall is to be constructed within the site boundary to a level of 300mm above the 0.1% AEP (1-in-1000 year) flood level.</li> <li>○ New standby energy generator &amp; bunded fuel tank.</li> <li>○ Relocation of the existing shed from the southern side of the WWTP site to the northern side of the WWTP site;</li> <li>○ Demolition of existing sheds adjacent to the site entrance to create a designated area with a separate site entrance to be used by Cork County Council Roads Department;</li> <li>○ Construction of a new control and administration building, and;</li> <li>○ Construction of new surface water drainage system with oil interceptor and attenuation system, in accordance with Sustainable Drainage Systems (SuDS)</li> <li>○ Site landscaping and finishes.</li> </ul> </li> </ul>
Expected completion date:	December 2025
Planning status: (grant of permission / exempted development)	Planning Permission granted
Prioritised for funding:	Yes

### 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	<b>Attachment B.8 - Programme of Improvements</b>

### 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:	<i>(tick [✓] one as appropriate)</i>	
- more than 10,000		€20,000
- 2,001 to 10,000	<b>X</b>	
- 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](http://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	<b>Attachment C.1 - Discharges &amp; Monitoring</b>

### 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:	Y	Y	Applicable to WWTP & Network	Performance Management System (PMS)
Emergency Response Plan and Procedures:	Y	Y	Applicable to WWTP & Network	Performance Management System (PMS)
<b>Waste water treatment plant</b>				
Measures to prevent unintended discharges	Existing (Y/N)	Proposed (Y/N)	Applicability	Surveillance measure
Alarms / telemetry on waste water treatment plant:	Y	Y	Applicable to WWTP	Telemetry Alarm
Standby pumps at waste water treatment plant:	Y	Y	Process Pumping all Duty/standby with auto changeover	Telemetry Alarm

Standby equipment or provisions in the event of interruption of the power supply such as a portable generator or equipment with automatic switchover:	Y	Y	On site generator provided with automatic change over switch.	Telemetry Alarm
Storage capacity at intake to the waste water treatment plant (SWO tank):	N	Y	Storm Water Holding Tank to be provided.	Telemetry alarm
Groundwater monitoring:	N/A	N/A	N/A	N/A
<b>Network</b>				
Measures to prevent unintended discharges	Existing (Y/N)	Proposed (Y/N)	Applicability	Surveillance measure
Alarms / telemetry on pumping stations:	N	N	No monitoring or alarms on existing SWO (SW003) within the network	Daily Inspections
Alarms / telemetry on emergency overflows:	N	N	No monitoring or alarms on existing SWO (SW003) within the network	Daily Inspections
Standby pumps at pumping stations:	Y	N/A	Pumps currently operate on a duty / standby basis	Daily Inspections
Standby equipment or provisions in the event of interruption of the power supply:	N	N	There is currently no standby power facilities at the site.	Daily Inspections
Storage capacity at pump stations:	N	N	There is currently no storage at the site.	Daily Inspections
Monitoring telemetry on SWOs:	N	N	No monitoring or alarms on existing SWO (SW003) within the network	Daily Inspections
Additional measures:	N/A	N/A	N/A	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	<b>Attachment C.2 - Measures to Prevent Unintended Discharges</b>

## 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:	River Sullane (WFD Code: IE_SW_19S020480) Sullane_60
WFD Risk:	Not at Risk
WFD Status & year:	Good (EPA) ( 2016 – 2021)
WFD Objective & timeframe for achievement:	Retain Good Status (2022-2027)
Is the agglomeration identified as a significant pressure?	No
Has the discharges contributed to a deterioration in the quality of the water body?	No
Protected areas in the vicinity of the discharges:	No
Are there drinking water abstraction points downstream of waste water discharge points?	Yes There are 2 No. drinking water abstraction points located downstream of the Primary Discharge Point (SW001). The abstraction points are as follows: <ul style="list-style-type: none"> <li>• The raw water intake for the Inniscarra WTP is located on the Inniscarra Reservoir / River Lee circa 25km downstream of the Primary Discharge Point (SW001) of the Macroom WWTP.</li> <li>• The raw water intake for the lee Road is located on the River Lee circa 39km downstream of the Primary Discharge Point (SW001) of the Macroom WWTP.</li> </ul>
European sites hydrologically connected:	The Gearagh SAC [IE000108] & the Gearagh SPA are located circa 1.7km & 2.6km respectively to the south of the Primary Discharge Point (SW001) and are hydrologically connected. A Natura Impact Statement (NIS) was completed for the development and included within <b>Attachment D.2.2 – NIS</b> of

	<p>this WWDL review application. The NIS concluded that following an analysis and evaluation of the relevant information including, in particular, the nature of the proposed upgrade, characteristics of the qualifying interests, the potential link between the proposed upgrade and the Gearagh SAC, no significant adverse effect on the integrity of the European site during development and operation of the proposed upgrade at the Macroon WwTP is anticipated alone or in-combination with any other plans or projects.</p>
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?	<p>Yes</p> <p>The Cork South Ground Water Protection Plan</p>
Status of adjacent waterbodies: (e.g. upstream and downstream of the receiving waterbody)	<p>Upstream: SULLANE_050 =High (EPA 2016-2021)</p> <p>Downstream: LEE (CORK)_060 = High (EPA 2016-2021)</p>
95%ile River Flow upstream of primary discharge point: (if applicable)	0.839m <sup>3</sup> /sec
Receiving water monitoring stations: (code and distance from primary discharge point)	<p>aSW1u RS19S020450 133805 E, 72977 N SULLANE River circa 1.5km upstream of Primary Discharge Point (SW001)</p> <p>aSW1d RS19S020480 135048E, 72709N SULLANE River - u/s Laney R confl circa 0.2km downstream of the Primary Discharge Point (SW001)</p>

**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

Receiving Waters name and code	WFD status	No. of compliant SWOs <sup>1</sup>	No. of SWOs under assessment or remediation	Is the SWOs identified as a significant pressure?	WFD objective and date
River Sullane (WFD Code: IE_SW_19S020480) Sullane_60	Good	3	0	No	Retain Good Status (2022-2027)

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<sup>1</sup> 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):	RS19S020450		
Licence Code:	aSW1u		
Monitoring Location:	E 133805	N 72977	
Point Type:	River		
Name of Receiving Water	River Sullane (WFD Code: IE_SW_19S020480) Sullane_60		

**Table 35** - Ambient Monitoring – upstream monitoring results

**NOTE: Data obtained from catchments.ie website for 40 month period February 2020 to June 2023**

Parameter	BOD	Total Phosphorous / Orthophosphate	Total Ammonia / DIN
Number of Samples	14	14	13
Max result	1.7	0.035	0.044
Min result	0.2	0.006	0.02
Average result	0.93	0.019	0.024
Overall compliance with relevant EQS	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Reference Table 9 SI 272 SW Regs 2009 BOD 2.6mg/l Ortho 0.075mg/l Ammonia 0.065mg/l.

**Table 36** - Ambient monitoring results – downstream

EDEN Code (where applicable):	RS19S020480	
Licence Code:	aSW1d	
Monitoring Location:	E 135048	N 72709
Point Type:	River	
Name of Receiving Water	River Sullane (WFD Code: IE_SW_19S020480) Sullane_60	

**Table 37** - Ambient Monitoring – downstream monitoring results

**NOTE: Data obtained from catchments.ie website for 40 month period February 2020 to June 2023**

Parameter	BOD	Total Phosphorous / Orthophosphate	Total Ammonia / DIN
Number of Samples	30	13	30
Max result	7.3	0.191	2.9
Min result	0.6	0.008	0.02
Average result	1.93	0.046	0.491
Overall compliance with relevant EQS	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Reference Table 9 SI 272 SW Regs 2009 BOD 2.6mg/l Ortho 0.075mg/l Ammonia 0.065mg/l.

**Table 38 - Proposed Receiving Water Monitoring**

EDEN Code (where applicable)	Licence Code	Monitoring Location				Point Type	Name of Receiving Water
RS19S020450	aSW1u	133805	E	79277	N	Upstream	River Sullane (WFD Code: IE_SW_19S020450) Sullane_60
RS19S020480	aSW1d	135048	E	72709	N	Downstream	River Sullane (WFD Code: IE_SW_19S020480) Sullane_60

**Table 39 - Proposed Monitoring Regime**

Parameter	Units	Monitoring Frequency	Analysis method/Technique
<b>pH</b>	pH Unit	Quarterly	pH Meter and recorder
<b>DO</b>	%O2	Quarterly	Electrode
<b>BOD</b>	mg/l	Quarterly	Electrode
<b>Temp</b>	deg C	Quarterly	Standard Method
<b>Orthophosphate (P)</b>	mg/l	Quarterly	Colorimetric
<b>Total Ammonia</b>	mg/l	Quarterly	Colorimetric
<b>Visual Inspection</b>	Descriptive	Weekly	Standard Method

## 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?	Yes
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### 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	<b>Attachment D.2.1 - Assessment of Impact on Receiving Surface Water Report</b>
Natura Impact Statement	<b>Attachment D.2.2 - NIS</b>
AA screening report	<b>Attachment D.2.3 - AA Screening Report</b>
<b>Priority Substances Assessment</b>	<b>Attachment D.2.4 – Priority Substances Assessment</b>

## 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:

The original Macroom WWTP was designed to service a population equivalent (PE) of 6,000. The existing WWTP is hydraulically overloaded resulting in the WWTP failing to meet the specified ELV's as per WWDL D0126-01.

As such, it is proposed to upgrade the existing WWTP to cater for the future agglomeration load of 8,300 PE.



The proposed ELVs from the discharge from the new WWTP are:

- pH - 6-9;
- cBOD - 25mg/l;
- COD - 125mg/l;
- Suspended solids - 25mg/l;
- Ammonia - 1.7mg/l (decreased from 2mg/l in existing WWDL D0126-01);
- Orthophosphate - 0.8mg/l (decreased from 1mg/l in existing WWDL D0126-01);

Based on the Assessment of Impact on Receiving Surface Waters Report included within Attachment D.2.1, by implementing the above referenced ELV's, this will allow for the receiving waterbody to meet its objectives under the WFD to maintain Good Ecological Status.

## SECTION E: DECLARATION

### E.1. Declaration

The Signed Declaration template should be downloaded from the EPA website ([www.epa.ie](http://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	<b>Attachment E.1 - Declaration</b>

END