

COMHAIRLE CHONTAE MHUINEACHÁIN MONAGHAN COUNTY COUNCIL

Oifigí Contae,
An Gleann,
Muineachán.

Guthán: 047 - 30500



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6th November 2008

Environmental Protection Agency
PO Box 3000
Johnstown Castle Estate
Co. Wexford

RE: APPLICATION FOR A WASTE WATER DISCHARGE LICENCE FOR
CASTLEBLAYNEY/BALLYBAY/CLONES WASTE WATER TREATMENT WORKS

Dear Sirs,

Please find enclosed all documentation pertaining to the application by Monaghan county council for a Waste Water Discharge Licence for the Waste Water Treatment Works serving the agglomeration of CASTLEBLAYNEY/BALLYBAY/CLONES and Environs.

The application fee of €25,000 was submitted to your good selves on the 26th September 2008 by electronic fund transfer.

I wish to confirm that the electronic files on the accompanying CD-ROM are a true copy of the original application form.

If you require any further information or clarification of the documentation submitted, please do not hesitate to contact us, as Monaghan County Council will gladly be of assistance.

Yours Sincerely

Mark Johnston
Water Services
Monaghan County Council

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This is a draft document and is subject to revision.



Waste Water Discharge Licence Application Form

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EPA Ref. N^o: <i>(Office use only)</i>	<input type="text"/>
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Environmental Protection Agency
PO Box 3000, Johnstown Castle Estate, Co. Wexford
Lo Call: 1890 335599 Telephone: 053-9160600 Fax: 053-9160699
Web: www.epa.ie Email: info@epa.ie

Tracking Amendments to Draft Application Form

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

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

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

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ABOUT THIS APPLICATION FORM

This form is for the purpose of making an application for a Waste Water Discharge Licence under the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007) or for the review of an existing Waste Water Discharge licence.

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

A valid application for a Waste Water Discharge Licence must contain the information prescribed in the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007). Regulation 16 of the Regulations sets out the statutory requirements for information to accompany a licence application. The application form is designed in such a way as to set out these questions in a structured manner and not necessarily in the order presented in the Regulations. In order to ensure a legally valid application in respect of Regulation 16 requirements, please complete the Regulation 16 Checklist provided in Annex 2.

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

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

PROCEDURES

The procedure for making and processing of applications for waste water discharge licences, and for the processing of reviews of such licences, appear in the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007) and is summarised below. The application fees that shall accompany an application are listed in the Third Schedule to the Regulations.

Prior to submitting an application the applicant must publish (within the two weeks prior to date of application) in a newspaper circulating in the area, and erect at the point nearest to the waste water treatment plant concerned or, if no such plant exists, at a location nearest the primary discharge point, a notice of intention to apply. An applicant, not being the local authority in whose functional area the relevant waste water discharge, or discharges, to which the relevant application relates, takes place or is to take place, must also notify the relevant Local Authority, in writing, of their intention to apply.

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

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

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

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

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

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

The provision of information in an application for a waste water discharge licence which is false or misleading is an offence under Regulation 35 of the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007).

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

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

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

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SECTION A: NON-TECHNICAL SUMMARY

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

A non-technical summary of the application is to be included here. The summary should identify all environmental impacts of significance associated with the discharge of waste water associated with the waste water works. This description should also indicate the hours during which the waste water works is supervised or manned and days per week of this supervision.

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

A description of:

- the waste water works and the activities carried out therein,
- the sources of emissions from the waste water works,
- the nature and quantities of foreseeable emissions from the waste water works into the receiving aqueous environment as well as identification of significant effects of the emissions on the environment,
- the proposed technology and other techniques for preventing or, where this is not possible, reducing emissions from the waste water works,
- further measures planned to comply with the general principle of the basic obligations of the operator, i.e., that no significant pollution is caused;
- measures planned to monitor emissions into the environment.

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

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NON-TECHNICAL SUMMARY

1. The waste water works and the activities carried out

1.1 Introduction

Castleblayney is the third largest town in County Monaghan and is located approximately 23 km southeast of Monaghan Town. The town is situated in the east of County Monaghan close to the border with County Armagh and Northern Ireland and is on the N2 National Primary Route between Dublin and Derry. The principal feature of Castleblayney is the attractive Lough Muckno, which is Monaghan's largest lake.

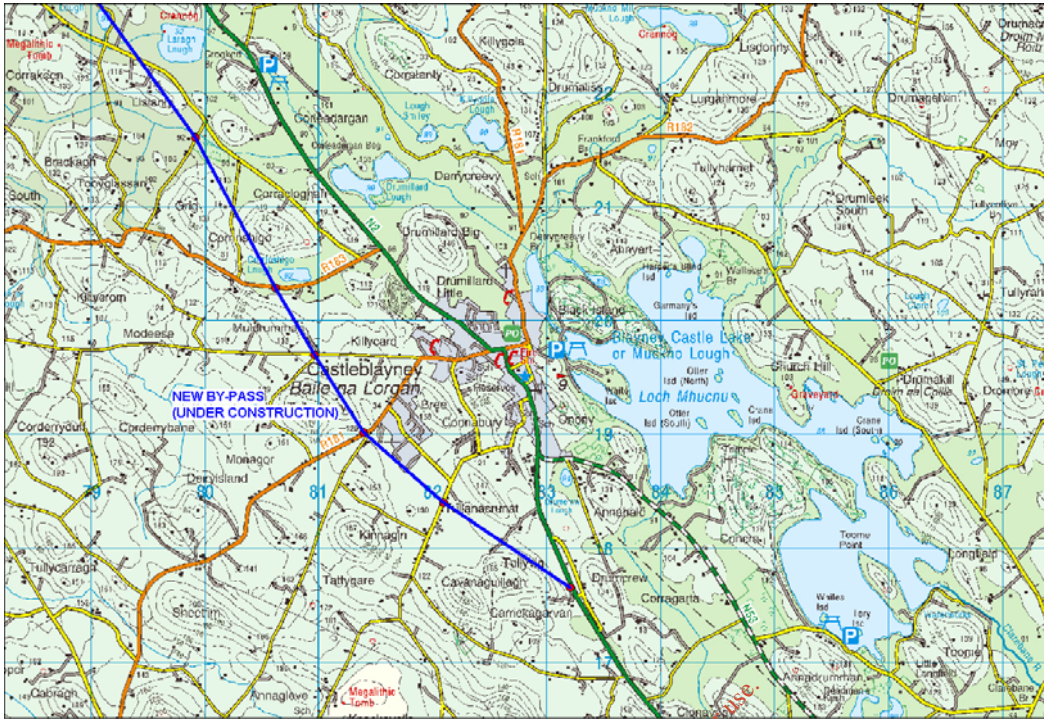
In the 2007 Monaghan County Development Plan, Castleblayney is identified as one of the five main towns in Monaghan and therefore is fundamental to economic growth and development in the county. The town serves as an important service centre to the large surrounding hinterland through its industrial and commercial facilities. The majority of the industrial facilities are located along the Monaghan Road, with smaller industrial areas also located at Killycard on the Shercock Road.

The drainage catchment in Castleblayney includes the main urban area and existing housing estates to the south and north west of the town centre. The catchment also extends outwards to serve ribbon developments on all roads leading into the town. The area of the current drainage catchment is 249 ha. The urban area lies in a relatively flat area surrounded by drumlins, rivers and interglacial lakes.

Castleblayney Wastewater Treatment Works was built in 1983 and operates as an extended aeration plant. The WWTW has a treatment capacity of 12,960 p.e. (population equivalent), with a current plant loading of approximately 5,600 p.e. The WWTW is located to the north of the town, at Muckno Street and occupies an area of approximately 0.62 hectares.

The WWTW is managed full-time by a caretaker and part-time by a technician.

Figure 1.1 Castleblayney



1.2 Summary of Wastewater Treatment Plant Units

Preliminary treatment is provided by means of a mechanical screen and automatic grit removal at the inlet works. Ferric sulphate is dosed to enhance phosphorus removal upstream of the aeration tanks. Treated effluent from the settling tanks (clarifiers) combines with settled, screened storm water discharge before discharging just upstream of Lough Muckno approximately 250 metres away from the treatment plant via an open ended outfall. Wasted sludge is dewatered using a belt press and is not thickened prior to dewatering. It is bought off site for thermal drying. Refer to drawing 02, attachment C2.

The plant consists of the following main components:

Treatment Stage	Element	Description (dimensions, capacities etc)	No of Units
Preliminary	Screen	Mechanical course screen (30mm aperture)	1
	Grit removal	Vortex Grit Trap	1
	Flow monitor	Venturi flume at the plant inlet and outlet	2
Primary	Storm water settlement	Rectangular Tank (capacity = 300m3)	1
	N/A	N/A	N/A
Secondary	Extended Aeration	Rectangular Aeration Tanks (total capacity = 3,600m3)	2

	Settlement Tank	Circular Settlement Tanks (Surface area = 433m ²)	2
Tertiary	N/A	N/A	N/A
Ancillary	Phosphorus Removal	Chemical dosing for phosphorous removal	1
Sludge Treatment/Disposal	Dewatering	Single belt press estimated @ 100kg DS/hr, achieves 9% DS	1
Outfall	Pipe	250m long open ended outfall to Lough Muckno	1
Power Generation	N/A	N/A	N/A

1.3 Description of Waste water treatment process

Preliminary Treatment

Incoming waste water gravitates to the preliminary treatment system. This comprises storm water separation and treatment, screening and grit removal. Initially all incoming waste water is screened by a mechanically raked coarse screen (30 mm aperture). The total flow receiving secondary treatment at the WWTP is measured in venturi flumes at the plant inlet and outlet i.e downstream of the grit removal system and downstream of the final effluent sampling chamber, at the plant outlet. An automatic sampler has been installed at the plant inlet. In addition grab samples of the influent are routinely taken.

Secondary Treatment

Following preliminary treatment waste water flows up to 35 l/s gravitate to the secondary treatment system. Secondary treatment is provided by an activated sludge treatment process comprising a single stage extended aeration system. This consists of two rectangular aeration tanks designed for BOD removal and nitrification, followed by two secondary settlement tanks and a return sludge system. Each tank is fitted with two 18 kW vertical shaft surface aerators. Flow from the aeration tanks gravitates to two radial flow settlement tanks fitted with rotating half bridge scraper mechanisms. Settled sludge gravitates to the nearby pumping station, while scum is removed automatically from the tank surface. A submersible pump is used to pump the return activated sludge to the aeration tanks. A separate submersible pump transfers surplus sludge to the dewatering press. Treated effluent which overflows from the secondary settlement tanks gravitates to an on site chamber where it combines with the settled storm water discharge. From there the treated effluent discharges to Lough Muckno at PSW1, via an open ended outfall. Ferric sulphate is dosed into the flow splitting chamber upstream of the aeration tanks, to bring about the chemical precipitation and removal of phosphates.

Sludge Treatment and Disposal

Sludge is not imported to Castleblayney WWTP for treatment. Indigenous sludge is dewatered using a single belt press. Sludge is not thickened prior to dewatering, but the sludge is pre-conditioned by polyelectrolyte to improve its dewatering ability. The dewatered sludge is stored in a covered skip prior to disposal off site. Filtrate from the dewatering press gravitates to the preliminary treatment system where the liquor combines with incoming waste water and receives full biological treatment with the main process stream.

Stormwater Treatment

Following screening at the inlet works flows greater than 70 l/s overflow a storm weir and discharge to Lough Muckno at the primary discharge point. Flows between 35 and 70 l/s discharge via a second overflow to a storm tank. Downstream of the storm overflow weirs, flows up to 35 l/s are subject to grit removal in a vortex grit trap. When the storm tank has filled, settled storm water overflows to Lough Muckno via the primary discharge point PSW1. When the storm abates and incoming waste water flow is less than 35 l/s, storm water is pumped back to the secondary treatment system by two duty/standby submersible pumps (27 l/s each).

2.0 The sources of emissions from the waste water works

Primary Discharge (PSW1) – Effluent Outfall (E283041, N319961)

The treated effluent from the existing wastewater treatment plant discharges into Lough Muckno approximately 250m to the North West. The discharge pipe is an open discharge 530mm diameter pipe. Refer to drawing 04, attachment B2.

Storm Water Overflow (SW2) – E282879, N320154

Main Roundabout CSO

This overflow is located on a 375mm diameter concrete combined sewer at the junction of the Monaghan Road and Main Street. Excess flow discharges to a nearby separate storm water network over a low level weir and 580mm diameter overflow pipe. There is also a gate valve located on the combined sewer that can be used to control overflow volumes. These excess flows are ultimately discharged to Lough Muckno, at SW2, via the storm water network. Refer to drawing 05, attachment B5.

Drumillard CSO

This CSO is located in a 9inch concrete combined sewer beside number 17 Park Road in the Park Drive Estate. The pipe reduces to 150mm diameter on exiting the chamber. Excess flows discharge over low weirs located on either side of the pipe and enter a separate storm water network via a 9inch concrete overflow pipe. These flows are ultimately discharged to Lough Muckno at SW2. Refer to drawing 05, attachment B5.

Existing Sewerage Network Overview

The town catchment is served by a partially combined collection network that gravitates flows to the wastewater treatment works on Muckno Street. Four pumping stations are also used to lift flows from low lying and peripheral areas of the catchment into the gravity collection network. The majority of flows are gravitated to a main pumping station at Muckno Street and transferred via rising main to the treatment works. The wastewater treatment works discharges treated effluent via an outfall pipeline to the adjacent Lough Muckno.

3.0 The nature and quantities of emissions from the waste water works into the receiving aqueous environment

The existing plant has a design capacity of 12,562pe and a design effluent quality (to the primary discharge point) as follows;

Parameter	Concentration
BOD ₅ (mg/L)	25
Total Suspended Solids (mg/L)	35
COD (mg/L)	125
Total Nitrogen (mg/L N)	20
Total Phosphorus (mg/L P)	2.0

The Castleblayney Wastewater Treatment Works complies with the requirements of the Urban Waste Water Directive, in addition to providing for compliance with the Phosphorus Regulations (SI 258 of 1998). No significant effects have been identified.

4.0 Identification of significant effects of the emissions on the environment

The only significant emission from the wastewater treatment plant is the effluent to the Lough Muckno. The effect of this has been examined in terms of the waste assimilative capacity of the River Boyne in terms of BOD5, suspended solids, phosphorus, ammonia and oxidised nitrogen. In general, the current effluent limits are within the waste assimilative capacity of the river. Therefore, there are not considered to be any significant effects on the environment. Refer to attachment F1 for further detail.

5.0 The proposed technology and other techniques for preventing or reducing emissions/pollution from the waste water works

The wastewater treatment plant in Castleblayney was commissioned in 1983. It is considered to be providing a suitable level of treatment to prevent pollution of Lough Muckno. However, plans are in place to upgrade the works to include the following preventative measures, refer at attachment B2, drawing03 for preliminary drawing (this is subject to approval for funding);

- Summary of effluent standards to be met for Phase 1:

Plant	Receiving Waters	Parameter			
		BOD (mg/l)	S.S. (mg/l)	P (mg/l)	Ammonia (N) (mg/l)
Castleblayney	Lough Muckno	9	11	1.0	10

- Tertiary BOD and suspended solids removal
- Ammonia reduction
- Refurbishment of existing tanks
- Upgrade of existing mechanical and electrical equipment
- Upgrade of Instrumentation
- Replacement of current existing surface aerators to a diffused aeration system with air blowers to increase efficiency.
- Provision of a new storm water tank with 2hours capacity for overflows at peak flows (8DWF) – approximately 1314m³.
- New sludge thickening and dewatering facility

6.0 Measures planned to monitor emissions into the environment

Flowmeters are provided at the wastewater treatment plant to monitor the process and the emissions to the environment. The flowmeters provided are as follows:

- i) Flow monitoring using level sensor in inlet flume chamber
- ii) Flowmeter for the flow to treatment.
- iii) Flowmeter for the sludge return flow.
- iv) Flowmeter for the flow to the existing aeration basin.

- v) Flowmeter and recording equipment for flow to the stormwater tanks.
- vi) Flowmeter and recording equipment for flow from Effluent Pumping Station.

The following process instrumentation is also provided to monitor the process and to ensure there is no overflows of pumping stations and the activated sludge system is working effectively:-

- (i) Dissolved oxygen monitoring in each aeration tank.
- (ii) Ultrasonic level measurement in all pump sumps and the stormwater tank.

Monaghan County Council currently carry out monthly monitoring of the final effluent from the wastewater treatment plant in addition to ongoing monitoring carried out in Lough Muckno to monitor the water quality. No additional monitoring is considered necessary to monitor emissions to the environment.

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SECTION B: GENERAL

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

B.1 Agglomeration Details

Name of Agglomeration: Castleblayney Waste Water Treatment Works

Applicant's Details

Name and Address for Correspondence

Only application documentation submitted by the applicant and by the nominated person will be deemed to have come from the applicant. Provide a drawing detailing the agglomeration to which the licence application relates. It should have the boundary of the agglomeration to which the licence application relates clearly marked in red ink.

Name*:	Monaghan County Council
Address:	County Offices
	The Glen
	Monaghan
Tel:	074 30500
Fax:	047 82739
e-mail:	info@monaghancoco.ie

*This should be the name of the water services authority in whose ownership or control the waste water works is vested.
 *Where an application is being submitted on behalf of more than one water services authority the details provided in Section B.1 shall be that of the lead water services authority.

Name*:	Mr Mark Johnston
Address:	County Offices
	The Glen
	Monaghan
Tel:	047 30500
Fax:	047 82739
e-mail:	mjohnston@monaghancoco.ie

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

Co-Applicant's Details

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

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

Design, Build & Operate Contractor Details

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

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

Attachment B.1 should contain appropriately scaled drawings / maps ($\leq A3$) of the agglomeration served by the waste water works showing the boundary clearly marked in red ink. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g., ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. These drawings should be provided to the Agency on a separate CD-Rom containing sections B.2, B.3, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	✓	

B.2 Location of Associated Waste Water Treatment Plant(s)

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

Name*:	Matthew Lambe
Address:	Castleblayney Waste Water Treatment Works
	Muckno Street
	Castleblayney
	Co. Monaghan
Grid ref (6E, 6N)	E282914, N319951
Level of Treatment	Primary and Secondary
Primary Telephone:	0876501846
Fax:	Not Applicable
e-mail:	Not Applicable

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

Attachment B.2 should contain appropriately scaled drawings / maps ($\leq A3$) of the site boundary and overall site plan, including labelled discharge, monitoring and sampling points. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g., ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. These drawings should be provided to the Agency on a separate CD-Rom containing sections B.1, B.3, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	✓	

B.3 Location of Primary Discharge Point

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

Type of Discharge	Open Discharge (533mm diameter pipe)
Unique Point Code	PSW1
Location	Discharge from WWTW to Lough Muckno (250m North West of the plant)
Grid ref (6E, 6N)	E283041, N319961

Attachment B.3 should contain appropriately scaled drawings / maps ($\leq A3$) of the discharge point, including labelled monitoring and sampling points associated with the discharge point. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing the drawings and tabular data requested in sections B.1, B.2, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	✓	

B.4 Location of Secondary Discharge Point(s)

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

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

Attachment B.4 should contain appropriately scaled drawings / maps ($\leq A3$) of the discharge point(s), including labelled monitoring and sampling points associated with the discharge point(s). These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
		✓

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

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

Type of Discharge	Open Discharge (580mm diameter pipe) to Lough Muckno from storm water network
Unique Point Code	SW2
Location	Lough Muckno
Grid ref (6E, 6N)	E282879, N320154

Attachment B.5 should contain appropriately scaled drawings / maps ($\leq A3$) of storm water overflow point(s) associated with the waste water works, including labelled monitoring and sampling points associated with the discharge point(s). These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	✓	

B.6 Planning Authority

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

Name:	Planning Department
Address:	County Offices
	The Glen
	Monaghan
Tel:	047 30500
Fax:	047 82739
e-mail:	info@monaghancoco.ie

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

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

Local Authority Planning File Reference N^o:	Not Applicable
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The existing Wastewater treatment works was constructed in 1983 prior to the requirement for an Environmental Impact Statement or Part 8 planning. An

Environmental Impact Statement is currently being prepared for the upgraded waster water treatment works.

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

Attachment included	Yes	No
		✓

B.7 Other Authorities

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

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

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

Within the SFADCo Area	Yes	No
		✓

B.7 (ii) Health Services Executive Region

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

Name:	Health Services Executive Dublin North Eastern Area
Address:	Dublin Road
	Kells
	Co. Meath
Tel:	046 9280500
Fax:	0469241459
e-mail:	info@hse.ie

B.7 (iii) Other Relevant Water Services Authorities

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

Name:	Not Applicable
Address:	Not Applicable
	Not Applicable
	Not Applicable
Tel:	Not Applicable

Fax:	Not Applicable
e-mail:	Not Applicable

Relevant Authority Notified	Yes	No
		✓

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

Attachment included	Yes	No
		✓

B.8 Notices and Advertisements

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

Attachment B.8 should contain a copy of the site notice and an appropriately scaled drawing (≤A3) showing its location. **The original application must include the original page of the newspaper in which the advertisement was placed.** The relevant page of the newspaper containing the advertisement should be included with the original and one (1) copy of the application.

Attachment included	Yes	No
	✓	

B.9 (i) Population Equivalent of Agglomeration

TABLE B.9.1 POPULATION EQUIVALENT OF AGGLOMERATION

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

Population Equivalent	5,692
Data Compiled (Year)	2008
Method	<ul style="list-style-type: none"> ▪ Census Data ▪ GeoDirectory ▪ Flow and Load Data

[GeoDirectory](#); Geo-Directory is a database of accurate postal and geographic addresses of properties in Ireland, formulated from a joint venture between An Post and Ordnance survey Ireland.

From the Geodirectory and mapping it was possible to identify all residential units, light commercial units, schools, Fire and Garda stations, hotels, hospitals,

post offices, churches and health clinics. It was then possible to estimate population equivalents from the size and nature of the residential and commercial unit or institution.

Census Data; The census of Population data for the Castleblayney catchment from the years 1996 to 2006 and the growth trends per year are presented below,

Castleblayney Population Growth Trends

YEAR	1996	2002	2006
Urban	1884	1712	1822
Environs	924	1224	1302
Total	2808	2936	3124
% Increase per Year	-	0.75	1.56

Flow and Load survey; A seven day flow and load survey was carried out at the Castleblayney WWTP between 12th and 18th January 2007. Having detailed flow and load figures to the treatment plant with good correlation between the hydraulic and organics loads, it was possible to determine the total population equivalent for the town. The results of this survey are presented in the Table below:

Seven Day Flow & Load Survey: Castleblayney WWTP

	Date of Sampling							Average
	12/01	13/01	14/01	15/01	16/01	17/01	18/01	
BOD (mg/l)	85	230	70	120	180	220	140	
Flow (m ³ /day)	2584.3	2705.2	2157.6	2063.1	1957.7	2297.9	2088.9	
BOD (kg/day)	219.7	622.2	151.0	247.6	352.4	505.6	292.4	
PE @ 60g BOD/PE	3661	10370	2517	4126	5873	8426	4874	5692

These results indicate a population equivalent at approx 5,700 in terms of BOD contributing to the works.

Summary

The total population equivalent for the town is 5,692 p.e., and with a residential estimate of 3,124 (Census 2006) and a commercial estimate of 822 p.e., the industrial component in Castleblayney is therefore calculated as 1,746 p.e. Using the growth trends from the census data a projected PE is calculated for 2015 (the life span of the waste water discharge licence);

Component	Current PE	Projected PE (excluding pending planning permissions)
	2008	2015
Domestic	3,124	3,482
Industrial	1,746	1,946
Commercial/Institutional	822	916
Total	5,692	6,343

B.9 (ii) Pending Development

Where planning permission has been granted for development(s), but development has not been commenced or completed to date, within the boundary of the agglomeration and this development is being, or is to be, served by the waste water works provide the following information;

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

The table below details the planning permissions, granted to date, that have not commenced or have not yet been connected to the main network. This table was compiled in conjunction with Monaghan County Council Planners.

A county average of 2.66 person per household was used to calculate the related additional PE. (Census 2006)

Please note: in the current economic climate it is probable that not all the housing permissions applied for will be realised.

CASTLEBLAYNEY PLANNING PERMISSIONS (PRESENT - 2015)				
File No.	Development Address	Description	Additional Housing	Additional PE
991004	Onomy and Annahale,, Castleblayney,, Co. Monaghan	construct thirty detached dwelling houses, using existing entrance on to the Dundalk Road as the main entrance to the development, service roads, pumping station and connection to existing services and ancillary site works	80	213
62203	Moraghy, Castleblayney, Co. Monaghan	32 no. semi-detached two storey dwellings, connection to public sewerage via existing pumping station and access onto public road via existing adjoining housing development entrance and associated site works	32	85
5179	Moraghy, Castleblayney, Co. Monaghan	erect 12 no. semi-detached two storey dwellings and 10 no. semi-detached storey and half dwellings, connection to public sewerage via existing pumping station and access onto public road via existing adjoining housing development entrance and associated site works	12	32

8226	Killycard,, Castleblayney,, Co. Monaghan,	(1) total of 88no. houses (including social & affordable), 1 creche, 2no. two bedroom apartments & 1no. one bedroom apartment on approx 12.54 acres of high & low density zoned lands, (2) two no. entrances at the Mile Hill & Shercock Roads, (3) attenuation tanks & pumping station, (4) all assoc water & sewerage services, (5) all assoc roads & landscaping, including a playground, house types are as follows: 2no. 5-bed two & half storeys with detached garages, 8no. 5-bed 2-storey detached with detached garages, 22no. 4-bed 2-storey detached with detached garages, 6no. 4-bed 2-storey semi-detached two with detached garages, 28no. 3-bed 2-storey semi-detached 2no. with detached garages, 21no. 3-bed 2-storey townhouses, 1no. 3-bed 2-storey detached (previous planning ref: 07/586)	88	234
99385	Bree,, Castleblayney,, Co. Monaghan	erect 20 semi detached and 10 detached two storey dwelling houses	20	53
99786	Bree,, Castleblayney,, Co. Monaghan	erect 64 no. dwelling houses	64	170
61383	Tullanacrunat, Castleblayney, Co. Monaghan	erect 130no. units, modifications to various house designs,& introduction of new house types, modifications to the commercial building layout including alteration to the proposed first floor usage from office to storage use, re-design of services layout, including a revision location for the foul pumping sewer and general modifications to the site development works.	130	346
547	Bree and Tullinacrunat, Castleblayney, Co.Monaghan	Development will consist of 138 no. two storey dwelling units incorporating ; 5 no. apartment blocks each with 4 no. 2 bedroom units, 14 no. 2 bedroom townhouses, 32 no. 3 bedroom townhouses, 30 no.3 bedroom semi-detached houses and 42 no.4 bedroom semi-detached houses and all associated site works including acoustic barrier along industrial estate	138	367
8986	Connabury, Castleblayney, Co. Monaghan.,	construct 53 no. unit housing development (incl. social & affordable) on a site area of approx. 3.776 hectares of high and low density zoned lands. The development consists of (1) the construction of a roundabout on the LS 07800 road to provide access to the site. (2) 53 No. units sub-divided as follows; (a) 4 no. 4 bed detached 1.5 storey over part basement type T1, (b) 4 no. 3 bed detached 1.5 storey over part basement type T2, (c) 2 no 4 bed detached 2 storey type T3, (d) 2 no. 3 bed semi detached 2 storey type T4, (e) 2 no. 4 bed detached 2 storey type T5, (f) 9 no. 4 bed detached 2 storey type T6, (g) 2 no. 4 bed detached 2 storey over part basement type T7, (h) 2 no. 3 bed semi-detached 2 storey type T8, (j) 8 no. 3 bed semi detached 2 storey type T9, (k) 3 no. block of 6 units each containing 2 no. 3 bed end of terrace 2 storey type T10 and T13, 2 no. 2 bed ground floor apartment type T11 ans 2 no. 1 bed first floor apartment type T12. (Total of 18 units). (3) Site development works including all roads, footpaths, landscaped and play areas, all services incl. foul drainage network with pumping station and connection to public sewer, surface water drainage system incl. attenuation structures and connection to existing open drain (which will be piped) along the Northern site boundary, public watermain with connection to existing public main, public lighting, bin storage, car parking, boundary treatment, etc.	53	141
420	Bree, Castleblayney, Co Monaghan	Houses in total:- *106 number dwelling houses accessing from the Upper Bree Road, Castleblayney (12 of which have private accesses on to the Upper Bree Road) comprising 28 detached dwellings with integrated garages, 42 semi detached dwellings with integrated garages, 20 semi detached dwellings without garages, 2 semi detached dwellings with detached garages and 14 town houses without garages and to form a new entrance and associated roads and * 25 number dwelling houses accessing from the First Bree Road, Castleblayney (6 of which have private accesses onto the First Bree Road) comprising 5 detached dwellings with integrated garages, 12 semi detached dwellings with integrated garages, 8 semi detached dwellings without garages and to form a new entrance and associated roads.	106	282

41092	Tullanacrunat , Castleblayney,, Co. Monaghan	demolition of existing dwelling and farm buildings and the construction of 61 no. dwellings consisting of 54 no. semi-detached 4 bedroom two storey, 7 no. detached four bedroom two storey with detached garage, foul pumping station with associated site works, new site entrance with associated boundary treatment	61	162
656	Bree,, Castleblayney,, Co. Monaghan	provide a housing development consisting of 14 no. semi detached two storey dwelling houses with garages(, all with private entrances onto Bree Road)	14	37
		Additional individual apartments + houses not catered for above	20	53
TOTAL			2175	

As can be seen below, an approximate estimate for the plant loading in 2015 (the life span of this licence) is 8,519P.E. As the plant is currently designed to cater for over 12,500P.E., it will be able to accommodate the extra hydraulic and organic loading without posing an environmental risk to the receiving water habitat.

Castleblayney WWTW			
Source	Existing P.E.	Pending P.E.	Projected P.E. increase to (2015)
Domestic	3,124	2,175	358
Commercial/Trade Effluent	1,746		200
Imported Liquid Wastes	822		94
Sub-Total	5,692	2,175	652
Total (Existing+Pending+Projected)			8,519

B.9 (iii) FEES

State the relevant Class of waste water discharge as per Column 1 of the Second Schedule, and the appropriate fee as per Columns 2 or 3 of the Third Schedule of the Waste Water Discharges (Authorisation) Regulations 2007, S.I. No. 684 of 2007.

Class of waste water discharge	Fee (in €)
	€25,000.00

Please see attachment B.9(iii) for confirmation letter.

Appropriate Fee Included	Yes	No
	✓	

B.10 Capital Investment Programme

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

In the 2007-2009 Water Services Investment Programme, €12,000,000 was provisionally committed to the Castleblayney/Ballybay/Clones Wastewater Treatment Plants. To date a Preliminary report has been compiled and submitted to the department of Environment, Heritage and Local Government. A final decision and approval for funding has yet to be taken. As stated on the investment programme, these schemes will not be started in 2008.

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

Attachment included	Yes	No
	✓	

B.11 Significant Correspondence

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

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

Attachment included	Yes	No
		✓

B.12 Foreshore Act Licences.

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

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

Attachment included	Yes	No
		✓

SECTION C: INFRASTRUCTURE & OPERATION

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

C.1 Operational Information Requirements

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

C.1.1 Storm Water Overflows

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

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

C.1.2 Pumping Stations

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

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

Attachment C.1 should contain supporting documentation with regard to the plant and process capacity, systems, storm water overflows, emergency overflows, etc., including flow diagrams of each with any relevant additional information. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, B.5, D.2, E.3 and F.2.

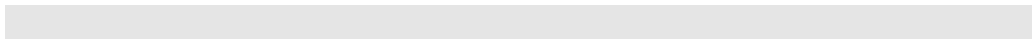
Attachment included	Yes	No
	✓	

C.2 Outfall Design and Construction

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

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

Attachment included	Yes	No
	✓	



SECTION D: DISCHARGES TO THE AQUATIC ENVIRONMENT

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

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

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

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

D.1 Discharges to Surface Waters

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

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

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

Attachment included	Yes	No
	✓	

D.2 Tabular Data on Discharge Points

Applicants should submit the following information for each discharge point:

Table D.2:

PT_CD	PT_TYPE	LA_NAME	RWB_TYPE	RWB_NAME	DESIGNATION	EASTING	NORTHING
Point Code Provide label ID's	Point Type (e.g., Primary/Secondary/Storm Water Overflow)	Local Authority Name (e.g., Donegal County Council)	Receiving Water Body Type (e.g., River, Lake, Groundwater, Transitional, Coastal)	Receiving Water Body Name (e.g., River Suir)	Protected Area Type (e.g., SAC, candidate SAC, NHA, SPA etc.)	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference
PSW1	Primary Discharge Point	Monaghan County Council	River	Lough Muckno/River Fane	N/A	283041	319961
SW2	Stormwater Overflow	Monaghan County Council	River	Lough Muckno/River Fane	N/A	282879	320154

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

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SECTION E: MONITORING

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

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

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

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

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

E.2. Monitoring and Sampling Points

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

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

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

Details of any accreditation or certification of analysis should be included. **Attachment E.2** should contain any supporting information.

Attachment included	Yes	No
	✓	

E.3. Tabular data on Monitoring and Sampling Points

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

PT_CD	PT_TYPE	MON_TYPE	EASTING	NORTHING	VERIFIED
Point Code Provide label ID's assigned in section E of application	Point Type (e.g., Primary, Secondary, Storm Water Overflow)	Monitoring Type M = Monitoring S = Sampling	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used
aSW1u	Primary - Upstream	S	283028	319980	Y
aSW1d	Primary - downstream	S	283132	319880	Y
ESW1	Effluent	S	282938	319955	Y
ISW1	Influent	S	282873	319902	Y

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

E.4 Sampling Data

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

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

Attachment E.4 should contain any supporting information.

Attachment included	Yes	No
	✓	

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

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

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

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

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

- Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.
- Details of all monitoring of the receiving water should be supplied via the following web based link: http://078.137.160.73/epa_wwd_licensing/. Tables F.1(i)(a) & (b) should be completed for the primary discharge point. Surface water monitoring locations upstream and downstream of the discharge point shall be screened for those substances listed in Tables F.1(i)(a) & (b). Monitoring of surface water shall be carried out at not less than two points, one upstream from the discharge location and one downstream.
- For discharges from secondary discharge points Tables F.1(ii)(a) & (b) should be completed. Furthermore, provide summary details and an assessment of the impacts of any existing or proposed emissions on the surface water or ground (aquifers, soils, sub-soils and rock environment), including any impact on environmental media other than those into which the emissions are to be made.
- Provide details of the extent and type of ground emissions at the works. For larger discharges to groundwaters, e.g., from Integrated Constructed Wetlands, large scale percolation areas, etc., a comprehensive report must be completed which should include, inter alia, topography, meteorological data, water quality, geology, hydrology, and hydrogeology. The latter must in particular present the aquifer classification and vulnerability. The Geological Survey of Ireland Groundwater Protection Scheme Dept of the Environment and Local Government, Geological Survey of Ireland, EPA (1999) methodology should be used for any such classification. This report should also identify all surface water bodies and water wells that may be at risk as a result of the ground discharge.

- Describe the existing environment in terms of water quality with particular reference to environmental quality standards or other legislative standards. Submit a copy of the most recent water quality management plan or catchment management plan in place for the receiving water body. Give details of any designation under any Council Directive or Regulations that apply in relation to the receiving water.
- Provide a statement as to whether or not emissions of main polluting substances (as defined in the *Dangerous Substances Regulations S.I. No. 12 of 2001*) to water are likely to impair the environment.
- In circumstances where water abstraction points exist downstream of any discharge describe measures to be undertaken to ensure that discharges from the waste water works will not have a significant effect on faecal coliform, salmonella and protozoan pathogen numbers, e.g., Cryptosporidium and Giardia, in the receiving water environment.
- Indicate whether or not emissions from the agglomeration or any plant, methods, processes, operating procedures or other factors which affect such emissions are likely to have a significant effect on –
 - (a) a site (until the adoption, in respect of the site, of a decision by the European Commission under Article 21 of Council Directive 92/43/EEC for the purposes of the third paragraph of Article 4(2) of that Directive) –
 - (i) notified for the purposes of Regulation 4 of the Natural Habitats Regulations, subject to any amendments made to it by virtue of Regulation 5 of those Regulations,
 - (ii) details of which have been transmitted to the Commission in accordance with Regulation 5(4) of the Natural Habitats Regulations, or
 - (iii) added by virtue of Regulation 6 of the Natural Habitats Regulations to the list transmitted to the Commission in accordance with Regulation 5(4) of those Regulations,
 - (b) a site adopted by the European Commission as a site of Community importance for the purposes of Article 4(2) of Council Directive 92/43/EEC¹ in accordance with the procedures laid down in Article 21 of that Directive,
 - (c) a special area of conservation within the meaning of the Natural Habitats Regulations, or
 - (d) an area classified pursuant to Article 4(1) or 4(2) of Council Directive 79/409/EEC²;

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

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

- Describe, where appropriate, measures for minimising pollution over long distances or in the territory of other states.
- This section should also contain full details of any modelling of discharges from the agglomeration. Full details of the assessment and any other relevant information on the receiving environment should be submitted as **Attachment F.1**.

Attachment included	Yes	No
	✓	

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

Applicants should submit the following information for each downstream or downgradient drinking water abstraction point. The zone of contribution for the abstraction point should be delineated and any potential risks from the waste water discharge to the water quality at that abstraction point identified.

ABS_CD	AGG_SERVED	ABS_VOL	PT_CD	DIS_DS	EASTING	NORTHING	VERIFIED
<i>Abstraction Code</i>	<i>Agglomeration served</i>	<i>Abstraction Volume in m³/day</i>	<i>Point Code Provide label ID's</i>	<i>Distance Downstream in meters from Emission Point to Abstraction Point</i>	<i>6E-digit GPS Irish National Grid Reference</i>	<i>6N-digit GPS Irish National Grid Reference</i>	<i>Y = GPS used N = GPS not used</i>
2100pub1018	Dundalk	currently using 18,454 m ³ /d		8km	301115,	301607	N

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

There is a drinking water abstraction from Lough Ross at Newry Water Treatment Plant, from the River Fane at Inniskeen Water Treatment Plant approximately 8km downstream and from the River Fane at Dundalk Water Treatment Plant towards the mouth of the river.

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

Attachment F.2 should contain any supporting information.

SECTION G: PROGRAMMES OF IMPROVEMENTS

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

G.1 Compliance with Council Directives

Provide details on a programme of improvements to ensure that emissions from the agglomeration or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of the;

- Dangerous Substances Directive 2006/11/EC,
- Water Framework Directive 2000/60/EC,
- Birds Directive 79/409/EEC,
- Groundwater Directives 80/68/EEC & 2006/118/EC,
- Drinking Water Directives 80/778/EEC,
- Urban Waste Water Treatment Directive 91/271/EEC,
- Habitats Directive 92/43/EEC,
- Environmental Liabilities Directive 2004/35/EC,
- Bathing Water Directive 76/160/EEC, and
- Shellfish Waters Directive (79/923/EEC).

There is currently no timetable for any capital works however, recommendations have been made in the preliminary report which has been submitted for approval.

Attachment G.1 should contain the most recent programme of improvements, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

Attachment included	Yes	No
		✓

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

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

There is phosphorus removal at the WWTW in Castleblayney. The WAC calculations included in Attachment F1 demonstrates compliance with the requirements of the phosphorus regulations.

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

Attachment included	Yes	No
		✓

G.3 Impact Mitigation

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

It is not considered that the current works in Ballybay cause significant environmental pollution. There are currently no plans/timetable for any capital works however, recommendations have been made in the preliminary report which has been submitted for approval

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

Attachment included	Yes	No
		✓

G.4 Storm Water Overflow

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

There is currently no timetable for any capital works however, recommendations have been made in the preliminary report which has been submitted for approval.

Attachment G.4 should contain the most recent programme of improvements, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

Attachment included	Yes	No
		✓

SECTION H: DECLARATION

Declaration

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

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

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

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

Signed by :  Date : 6/11/08
(on behalf of the organisation)

Print signature name: MARK JOHNSTON

Position in organisation: SENIOR EXECUTIVE ENGINEER

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