

*Duncannon & Environs Wastewater Discharge Licence Application
Wexford County Council*



Comhairle Chontae
Loch Garman

Wexford County Council
County Hall
Wexford

Tel 053 42211
Fax 053 43406
email postmaster@wexfordcoco.ie

EPA Headquarters
Office of Climate, Licensing and Resources
PO Box 3000
Johnstown Castle Estate
Co. Wexford

Date: 28th February 2009

**RE: Duncannon and Environs Agglomeration WASTEWATER
DISCHARGE LICENCE APPLICATION**

Dear Sirs,

Herewith is the signed original Application Form for Duncannon and Environs Agglomeration together with the appropriate fee, 1 further hard copy of these documents, 2 copies in electronic searchable PDF format on CD-ROM and a CD-ROM with the geo-referenced drawings.

We confirm that the content of the electronic files on the accompanying CD-ROM's is a true copy of the original application form.

Please contact the undersigned if anything further is required.

Yours faithfully,

D. Cullinan
Senior Engineer
Water Services
Wexford County Council

*100 Years of Community Service
Céad bliain ag tabhairt seirbhíse don phobal*



Riailtas Áitiúil
Local Government

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WASTE WATER DISCHARGE LICENCE APPLICATION

DUNCANNON AND ENVIRONS AGGLOMERATION

28TH FEBRUARY 2009

*100 Years of Community Service
Céad bliain ag tabhairt seirbhíse don phobal*



Waste Water Discharge Licence Application Form

Duncannon and Environs
Agglomeration

License Category 1001-2000 P.E.

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

Environmental Protection Agency
PO Box 3000, Johnstown Castle Estate, Co. Wexford
Lo Call: 1890 335599 Telephone: 053-9160600 Fax: 053-9160699
Web: www.epa.ie Email: info@epa.ie

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

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ANNEX 1: TABLES/ATTACHMENTS

ANNEX 2: CHECKLIST

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**

A Description of the Wastewater Works and the Activities Carried Out Therein

At Present there is no Wastewater treatment plant serving Duncannon and its Environs.

The sources of emissions/nature of emissions from the Waste Water Works

As outlined above there is no Wastewater Treatment Plant for Duncannon and Environs, and thus there are no plant emissions at present. However there are two discharges from the Duncannon and Environs Agglomeration; The Primary Discharge Point (SW1) located at the pier head and a Combined Stormwater Overflow (SW2) discharging

at a boat slip way in the inner harbour. An additional Combined Stormwater Overflow to the South Beach was decommissioned some years ago.

Under intended works the current Primary Discharge Point (SW1) and the Combined Stormwater Overflow (SW2) will cease, the projected time scale for completion of these works is 2011/2012. These works will be subject of a separate license application (Arthurstown/Duncannon and Environs Agglomeration) at a latter date.

Quantities of discharge

As outlined above there is no treatment plant and the two existing discharges are not equipped with any form of flow measurement.

However as part of the Preliminary Report undertaken as part of preparations for the provision of a New Wastewater Treatment Plant for Duncannon and Environs, a flow and load survey was conducted. This survey was conducted over a 34 day period (22/04/06 to 26/05/06). The survey indicated an average discharge volume of 173.3 cubic meters per day.

The relevant extracts from the Preliminary Report are attached in Appendix A.

With regard to foreseeable discharge volumes, as stated above, the two current discharges will cease, however, there will be an Emergency Overflow (exact location as yet not confirmed), this will discharge in extreme weather events and a new pumping station will be designed in accordance with all directives with regard to stormwater storage etc.

Effect of emissions

Based on ambient monitoring conducted as part of this licence, the results indicate that discharges are having no measurable impact on receiving waters.

While Duncannon has recently lost its Blue Flag status, it is generally acknowledged that the loss of blue flag status is due, in large part, to both the level of discharges in the upper reaches of the receiving waters and tidal effects.

The South Eastern River Basin District Management Project has assigned the receiving waters (Sub Basin Code Se_100_0100) with a Quality Status of "Moderate" and an Objective of "Restore".

Technologies

Not Applicable.

Techniques

Not Applicable.

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Prevention of Pollution

It is the ultimate intention of Wexford County Council, pending the availability of funding, to provide a Wastewater Treatment facility for Duncannon Village and Environs. However, following investigations and assessment under the Preliminary Report, the recommendations are that the treatment of and discharge of treated wastewater from Duncannon and Environs should be provided at Arthurstown (combining both the Duncannon and Arthurstown Agglomerations as a single scheme).

The Preliminary Report for this scheme, along with other schemes from the 11 Villages Sewage Schemes Bundle; are currently with the

Department of Environment, Heritage and Local Government for comment/approval to proceed.

Additionally, the provision of wastewater treatment facilities for Duncannon is included in the "National Water Services Investment Programme 2007-2009" for Wexford. The expected date for commissioning of the New Wastewater Treatment Plant for Duncannon/Arthurstown and Environs is 2011/2012.

This combined Agglomeration will be the subject of a latter licence application.

There are no immediate interim plans for the prevention of pollution.

However in order to limit effects of pollution over the past 3 years Wexford County Council has limited development within the Duncannon Agglomeration and any development permissions granted are and have been conditioned to provide and operate temporary secondary treatment until such time as a new main drainage scheme is put in place. At that stage these developments are to connect to main sewer network and decommission temporary plants.

As such the two developments which have proceeded in this period are equipped with secondary treatment plants, which pump treated effluent to the current Duncannon main sewer network and discharge via the Primary Discharge Point (SW1). These 2 developments, Beech View estate (57 units) and Bay View estate (32 units), account for 89 of the 299 domestic units within agglomeration.

Toxic Substances

Analysis, of the Primary Discharge Point (SW1) and the receiving waters sampling points, shows that measured levels detected are below those levels specified in the Dangerous Substances Regulations.

Measures planned to monitor emissions into the environment

Traditionally there is no sampling monitoring programme in place in Duncannon and Environs, as there is no wastewater plant serving the agglomeration. As outlined above a New Wastewater Treatment Plant is planned for Duncannon and Environs, as of yet a final decision on the method of procurement has not been finalised. Therefore, it is not possible to outline an exact monitoring programme which will be put in place for emissions from the proposed New Wastewater Treatment Plant. However, regardless of the method of procurement, it is Wexford County Council's intention to put a monitoring programme in place which will be compliant with all statutory requirements.

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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: Duncannon & Environs

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*:	Wexford County Council
Address:	County Hall
	Spawell Road
	Wexford
	County Wexford
Tel:	053 9176500
Fax:	053 9143406
e-mail:	postmaster@wexfordcoco.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. Darragh Cullinan S.E. Water Services (Operations)
Address:	Wexford County Council
	Spawell Road
	Wexford
	County Wexford
Tel:	053 9176303
Fax:	053 9124852
e-mail:	darragh.cullinan@wexfordcoco.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
	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
	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
	✓	

Attachment

B.1. (a) Agglomeration Drawing

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*:	Not Applicable
Address:	Not Applicable
	Not Applicable
	Not Applicable
	Not Applicable
Grid ref (6E, 6N)	Not Applicable
Level of Treatment	Not Applicable
Primary Telephone:	Not Applicable
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	Submerged T (Not Confirmed)
Unique Point Code	SW1
Location	End wall of pier to Waterford Harbour
Grid ref (6E, 6N)	272622E 108297N

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
	✓	

Attachment

B.3. (a) Primary Discharge Location Map

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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	90 degree Elbow with extension
Unique Point Code	SW2
Location	Boat Slip way, Inner Harbour , Duncannon, Co Wexford
Grid ref (6E, 6N)	2727928E 108160N

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
	✓	

Attachments

B. 5 (a) Combined Storm Water Overflow Location Map

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:	Wexford County Council
Address:	County Hall
	Spawell Road
	Wexford
	County Wexford
Tel:	053 9176500
Fax:	053 9143406
e-mail:	postmaster@wexfordcoco.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
---	----------------

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

Attachment included	Yes	No
		✓

B.7 Other Authorities

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

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

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

Within the SFADCo Area	Yes	No
		✓

B.7 (ii) Health Services Executive Region

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

Name:	Health Service Executive South
Address:	Wexford Local Health Office
	Whitemill Industrial Estate
	Wexford
Tel:	053 9123522
Fax:	053 9142068
e-mail:	Matt.Grogan@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 ($\leq A3$) showing its location. **The original application must include the original page of the newspaper in which the advertisement was placed.** The relevant page of the newspaper containing the advertisement should be included with the original and one (1) copy of the application.

Attachment included	Yes	No
	✓	

Attachments

B.8. (a) Copy of Site Notice

B.8. (b) Site Notice Location Map

B.8. (c) Copy of cutting from Newspaper of Advertised Notice

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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	1112
Data Compiled (Year)	2008
Method	Calculated

Attachments

B.9 (i) Population Equivalent of Duncannon Agglomeration

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.

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 €)
1,001 to 2,000 p.e.	15,000

Appropriate Fee Included	Yes	No
	✓	

B.10 Capital Investment Programme

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

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
	✓	

Attachments

B.10 (a) "Water Services Investment Programme 2007-2009- Wexford"

B.10 (b) Statement as to current funding and time scale.

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.

There has been no section 63 correspondence in relation to this Agglomeration.

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

There is no Foreshore License for the current Primary Discharge Point (SW1) or Combined Storm water Overflow (SW2) within the Duncannon and Environs agglomeration. However once the purposed capital works are completed, all effluent form the agglomeration will be pumped to Arthurstown and as such no foreshore license will be required.

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.

Not applicable as there is, at present, no wastewater treatment plant for Duncannon and Environs Agglomeration.

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.

Not applicable as outlined above, Duncannon Agglomeration at present does not have any treatment plant.

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

Attachment included	Yes	No
		✓

C.2 Outfall Design and Construction

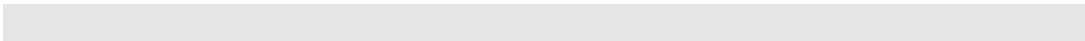
Provide details on the primary discharge point & secondary discharge points and storm overflows to include reference, location, design criteria and construction detail.

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.

The Primary Discharge Point (SW1), located at the head of Duncannon Pier, consists of a 225mm diameter ductile iron 'T', which discharges below low water level. There are neither design criteria nor construction details available for this outfall.

The Combined Stormwater Overflow is located in an access road along the pier, with the discharge via a 225mm ductile iron pipe exiting the pier wall adjacent to a boat slipway in the inner harbour. The end of the pipe is fitted with a ductile iron four way joiner acting as a 90 degree bend, (the straight and upper junctions of the four way joiner are capped and the down elbow is fitted with an extension point, so that discharge occurs below low water level). There are neither design criteria nor construction details available for this outfall.

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.

Please See Attached Copy of Tables from Web Link Tool

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.

Please See Attached Copy of Tables from Web Link Tool

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.

At present there is no wastewater treatment plant for Duncannon and Environs Agglomeration

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
SW1	Primary	Wexford County Council	Coastal	Waterford Harbour	SAC	272622	108297
SW2	Combined Storm water Overflow	Wexford County Council	Coastal	Waterford Harbour	SAC	272928	108160

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/.

Data provided on the web tool is based on measurements under taken as part of the "Preliminary Design Report".

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/.

Data provided on the web tool is based on measurements under taken as part of the "Preliminary Design Report".

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.

While at present this Agglomeration does not have a wastewater treatment plant, no programme of monitoring is conducted. Additionally, under proposed works, wastewater from the agglomeration will be removed from the agglomeration to a new wastewater treatment plant. This plant will be in compliance with all monitoring requirements and will be continuously monitored.

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
	✓	

Attachments

E.2 (a) Copy of ELS accreditation

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
SW1	Primary	S/M	272705	108251	
aSW1u	Primary	S	272725	108796	
aSW1d	Primary	S	273068	107957	

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.

As the Duncannon and Environs Agglomeration at present has no treatment, it is not possible to submit monitoring results.

Attachment E.4 should contain any supporting information..

Attachment included	Yes	No
		✓

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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.

The Duncannon Village and Environs agglomeration discharges to Waterford Harbour (Rivers Barrow/Nore).

The beach adjacent to Duncannon currently does not hold Blue Flag Status. Visual assessment at the location of the discharge points shows no sign of discharge plumes or gross solids in the area of the discharge.

The monitoring results indicate that there is no measurable impact on the environment.

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

See attached Web Link Tables.

- 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.

Not applicable as there are no secondary discharges within the Duncannon and Environs Agglomeration.

- 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.

Not Applicable as there are no known ground emissions within the Duncannon and Environs Agglomeration.

- 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.

The "EPA Estuarine and Coastal Water Quality Map 2001-2005" shows that location 27 (Barrow - Nore - Suir Estuary (outer)), which is upstream of the discharges, as unpolluted. The map also shows areas 28 (Outer Waterford Harbour), which is in the area of the discharges, and area 29 (Waterford Harbour Adjacent Coast), which is down stream of the discharges, as both being unpolluted.

With regard to the Bathing Water Directive: in recent years Duncannon Beach has lost its blue Flag status. While the exact cause or causes of the reduction in bathing water quality have not been established, it is probable that the reduction in bathing water quality is due to a number of factors (upstream discharge impacts etc) and not solely due to Duncannon and Environ Agglomerations discharges.

The receiving water, Waterford Harbour, is part of South Eastern River Basin District. The SERBD is not due to issue a Catchment Management Plan until December 2009.

The area of Waterford Harbour in which the discharges occur is not designated.

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

The monitoring results conducted as part of this license application, indicate that the levels of main pollutants (as defined in the *Dangerous Substances Regulations S.I. No. 12 of 2001*) are at such low levels, they are unlikely to adversely effect 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..

Not applicable, as the discharges are to coastal waters and there are no abstraction points downstream of the discharges.

- 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) –

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,

a special area of conservation within the meaning of the Natural Habitats Regulations, or

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)

Both the Primary Discharge point (SW1) and the Combined Stormwater Overflow (SW2) are to coastal waters, with the point of actual discharge occurring at the boundary of a Designated Special Area of Conservation (SAC), namely the "River Barrow and River Nore" SAC, site code 002162.

Both the Primary (SW1) and the Combined Storm Water Overflow (SW2) are neither within nor discharge to a Special Protected Area (SPA).

Furthermore, both the Primary Discharge Point (SW1) and the Combined Stormwater Overflow (SW2) are not located within a National Heritage Area. However, there are two NHA areas in close proximity to these discharges. The Duncannon Salthills NHA is some 200 linear meters southeast of the Primary Discharge Point (SW1). The Waterford Harbour NHA is 1500 meters on the opposite side of the harbour from both the Primary Discharge Point (SW1) and the Combined Stormwater Overflow (SW2).

As part of this application an assessment was conducted using Circular Letter L8/08, detailed as follows:

- Is the development within a nature conservation site: Yes

- Is the development in the surface water catchments of a Nature Conservation Site.: Yes
- Are the qualifying habitats and species of the site water dependant: Yes (as outlined in the Site Synopsis River Barrow and River Nore SAC (Site Code: 002162) copy attached).
- Is there a WFD sub basin plan for the site or its protected habitats/species: Yes, this plan is currently being prepared by the SERBD. The expected date for completion of the sub basin plan is December 2009 - Freshwater Pearl Mussel plan. The Freshwater Pearl Mussel is the only susceptible species as far as is known.
- Therefore based on Circular L8/08 (2nd September 2008) further action or assessment is not required.
- Describe, where appropriate, measures for minimising pollution over long distances or in the territory of other states.

As outlined above, subject to funding, Wexford County Council intends to provide both treatment and ultimate discharge of treated effluent outside of the Duncannon and Environs Agglomeration.

Additionally, Wexford does not share a boundary with any other state.

- 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.**

No modelling has been conducted on the discharges from this agglomeration.

Attachment included	Yes	No
	✓	

Attachments

F. 1 (a) Copy of NPWS site synopsis

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.

Not applicable as there are no water abstraction points below discharge points

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

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

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

Attachment F.2 should contain any supporting information.

SECTION G: PROGRAMMES OF IMPROVEMENTS

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

G.1 Compliance with Council Directives

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

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

As stated previously, it is the intention of Wexford County Council, subject to funding, to remove the wastewater load from Duncannon and Environ Agglomeration, and to provide treatment and ultimate discharge outside of Duncannon and Environs Agglomeration. These works will ensure full compliance with the above directives.

The programme of required works for the Duncannon and Environs Agglomeration is included in the "Water Services National Investment Programme 2007-2009" for Wexford. It is envisaged, subject to funding, that these works will be completed and commissioned by 2011/2012.

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

Please See attachments B. 10 (a) and (b)

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.

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
		✓

As the discharges from the Duncannon and Environs agglomeration are to a non designated coastal water; the phosphate Regulations (S.I. 258 of 1998) do not apply.

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.

As outlined previously, it is the intention of Wexford County Council, subject to funding, to relocate the wastewater load from Duncannon and Environs Agglomeration. This work will ensure that there will be no significant environmental pollution.

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
		✓

Please refer to Attachments B.10 (a) and B.10 (b)

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.

Under the planned network upgrades of the Duncannon and Environs network the existing CSO (SW2) will be removed. It is expected, subject to funding, that these works will be completed by 2011/2012.

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 : Daragh Cullinan **Date :** 20 Jan 09
(on behalf of the organisation)

Print signature name: DARAGH CULLINAN

Position in organisation: Senior Engineer

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