

Cork County Council

Wastewater Discharge Licence Application under S.I. 684 of 2007 Regulations

Scheme / Agglomeration Name : Clonakilty

Submission Date :14th December 2007

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This is a draft document (VERSION 2) and is subject to revision.



Waste Water Discharge Licence Application Form

EPA Ref. №: DOUS1-(Office use only)

Environmental Protection Agency

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Urban Waste Water Discharge Application Form

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.

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Urban Waste Water Discharge Application Form

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

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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 increased 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.

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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 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. 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. <u>The abbreviation "N/A" should not be used</u>.

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.

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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: <u>*Drawings.*</u> *The following guidelines are included to assist applicants:*

- All drawings submitted should be titled and dated.
- All drawings should have a <u>unique reference number</u> and should be signed by a clearly identifiable person.
- All drawings should indicate a scale and the <u>direction of north</u>.
- 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.

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Supporting information should form Attachment Nº A.1 (See attachment BI)

SECTION A Forther of NON-TECHNICAL SUMMARY

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APPLICATION FOR A WASTEWATER DISCHARGE LICENCE

CLONAKILTY SEWERAGE SCHEME

Non-Technical Summary

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

The Collection System

The wastewater in Clonakilty and its environs is collected in a partially combined foul and surface water network consisting of both gravity and pumped systems. The foul sewage consists of both domestic and industrial effluent. Generally the central part of the town gravitates in the partially combined system to the two main pump stations of the scheme – Long Quay and Clarke Street. These then along with Inchydoney main pumping station pump directly to the wastewater treatment plant. Pump stations on the outskirts of the town fed by essentially separate foul systems include Inchydoney (main and minor), Gallanes and Templebryan North. Further private pumping stations are located at Templebryan South housing estate, Clonakilty Technology Park, Ard Alainn housing estate (Tawnies Lower Td.) and Inis Sioda housing estate (Scartagh). See Drawing No. CLON A1. of Attachment No. A1 for locations.

Both Long Quay and Clarke Street pump stations have storm overflow channels set at high levels in order to avoid high tide infiltration back from the overflow. Occasionally bypasses set at lower levels on overflows at both pump station have to be opened manually to relieve flooding in the lower areas of the town. It is proposed to lower the levels of the overflows with the installation of Tideflex non-return valves to avoid tidal back-up. Long Quay pumps are capable of pumping 4 DWF and Clarke Street 5 DWF. In order to cater for storm water at Long Quay in excess of 4 DWF it is proposed to provide 750 m³ storm tank adjacent to the pumphouse. This tank is sized to store 30 minutes storage of the excess in the inlet pipe capacity over and above the pump capacity. These proposed works are to be carried out under the upgrade of the wastewater treatment plant approved under the Water Services Investment Programme.

All other pump stations contain overflows either to surface water (both Inchydoney stations), ground soakaway (Gallanes) or holding tank (Templebryan North housing estate, Templebryan South housing estate, Clonakilty Technology Park, Ard Alainn housing estate and Inis Sioda housing estate) to cater for emergencies such as pump breakdown or electricity outage. However this seldom occurs as each contains duty and standby pumps. In case of emergency Inchydoney stations are linked by telemetry with the wastewater treatment plant and all other stations have 24 hour storage with flashing beacon alarm for pump malfunction.

The main pump station in Inchydoney is over 3 km from the wastewater treatment plant and in order to overcome possible septicity in the rising main due to long retention times air is injected into it at both the pump station and at an intermediate air injection station 1.3 km from the plant.

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Wastewater Treatment Plant

The existing wastewater treatment plant in Clonakilty is located on the sea front, east of the GAA pitch and adjacent to the Model Railway Village. The site is approximately 2.2 ha in area on reclaimed land and is relatively flat, lying at approximately 5.5 m OD. The influent from the town and environs is pumped into the inlet works from two pumping stations located at Clarke Street Bridge and Long Quay. A separate pumped feed from Inchydoney also enters the works.

The original design loads on the existing treatment plant were:-

- Design Population 5,333 pe
- Dry Weather Flow
- Peak Flow

1 DWF = 17 l/s 6 DWF = 102 l/s

BOD Loading

364 kg/day

The purpose of the plant is to remove solids and pollutant matter from sewage entering the works thus rendering the treated effluent suitable for discharge to a watercourse. Grit and others materials are removed at the inlet works and the extended aeration process removing the main pollutant matter priore discharge to harbour.

The existing treatment works consists of:-

- (a) Grit Removal: A grit trap is currently in operation at the plant with a design flow capacity of 0 180 l/s, which is adequate to serve up to 22,000 p.e. flowing at 3 DWF.
- (b) Grit Classifier has been installed recently. This receives the grit from the grit trap and separates out the grit from other materials and conveys the relatively dry grit into an adjacent wheelie bin for removal to landfill.
- (c) Screening –In the year 2000, a mechanically brushed screen and Lisep unit (Haigh Ace Inlet System) were instanted. The largest model, 991, was installed in Clonakilty and has a maximum capacity of 100 l/s. Although the design peak flow is 102 l/s, the current peak flow entering the works when all pumps are running, is in the region of 135 l/s. The screen, therefore, is on occasion operating at maximum capacity, with no room for an increase in flows entering the works.
- (d) Emergency Bypass A hand-operated penstock is located between the screen and the inlet flumes at the inlet works. This penstock leads to a backdrop manhole, which connects to the treatment plant outfall at the easterly end of the site allowing bypass of plant in emergency situations.
- (e) Inlet Flumes After the screen outlet, the inlet channel splits into two channels 300 mm wide, with future provision for a third channel. The two channels have Venturi flumes installed with a 200 mm throat to enable measurement of the flow through the works which is then transmitted to control house. These channels were designed for a flow capacity of 51 l/s. The divided flows are piped from here to the oxidation ditches
- (f) Extended Aeration Extended aeration is by means of 2 no. racetrack type oxidation ditches with 4 no. rotors located midway along length of each ditch as a means of aeration. The design p.e. for these ditches was 2,666/stream. Aeration is by means of

rotors located midway along the racetrack, which also maintains a velocity of approximately 3 m/s for the mixed liquor within the ditch.

These ditches were designed for a much lower BOD loading than the peak 15,000 p.e. that it serves in the summer. However, the plant was designed for a higher hydraulic load of 6 DWF, whereas now most plants are designed to take a hydraulic loading of 3 DWF. Recently a further floating aerator was introduced into each ditch in order to increase the amount of oxygen available for microorganisms to cater for the increased loading. Dissolved oxygen probes measure the oxygen levels within the oxidation ditches. The flow from the oxidation ditches is piped to the settling tanks.

- (g) Settling Tanks 2 no. circular hopper-bottomed settling tanks are currently in operation as a means of secondary sedimentation. Sludge settles to the bottom of these tanks and is returned to the lifting wheel chambers. The supernatant liquid from the settling tanks is piped to the outlet channel.
- (h) Outlet Channel The 400 mm outlet channel collects the treated effluent from the settling tanks which then flows by gravity to the sea outfall. The flow is measured in the outlet channel and transmitted to control house.
- (i) Sludge Return The sludge from the settling tanks is returned to the oxidation ditches by means of a sludge-lifting wheel. This lifting wheel lifts the sludge to a sufficient height so that it can flow by gravity to the oxidation ditch. The sludge can also be drawn off from the lifting wheel chambers to the sludge pump sumps for wasting.
- (j) Excess Sludge Pumps 2 no. submersible pumps, one duty and one standby pump the excess sludge produced from the extended aeration process on to the picket fence thickener. The pumps operate automatically and pump the sludge to the picket fence thickener tank.
- (k) Picket Fence Thickener A picket fence thickener is located adjacent to the control house. The supernatant effluent is returned to the head of the oxidation ditch, and the thickened sludge which settles to the bottom of the tank is piped to pumps pumping it to the sludge filter belt press.
- (I) The Filter Belt Press Located in the control house, the filter belt press reduces the moisture content of the sludge to approximately 12 - 14% dry solids with the aid of polyelectrolyte which is mixed with the sludge prior to the press. A screw conveyor then conveys the sludge to a tanker for recovery to agriculture.
- (m) Control House This consists of the control room, laboratory, storeroom and toilet. The control room contains a mimic of the plant operation and control panel with displays of various equipment, operations and measurements. A telemetry system is also in place to monitor the Inchydoney scheme operations.

The Clonakilty Sewerage Scheme is currently operated by a Cork County Council employed caretaker who carries out his duties generally during normal working hours Monday to Friday while checking the plant as required outside of these hours.

An upgrade of the wastewater treatment plant approved under the Water Services Investment Programme is to be carried out in the near future in order to cater for a total loading of 20,500 pe. For further details concerning these proposals see Section B10 of the application - Capital Investment Programme.

The Sources of Emissions from the Wastewater Works

The pollution load from the Clonakilty agglomeration arises from the following areas:

- The local population
- Shannonvale Chickens
- Clona Milk Dairies
- Irish Yoghurts
- Hotels, schools, hospital, abbatoir, technology park etc.

Shannonvale Chickens has its own treatment plant discharging treated effluent to public sewer.

Development in Clonakilty generally has increased substantially in recent years with high seasonal variation in the population reaching its peak in summertime with influx of tourists and holidaymakers. Latest recorded peak pe at the plant is for 15,000.

The treatment plant was designed to be built in two stages with room allowed on the site for a third oxidation ditch to be added on expansion of the plant to cater for 20,500 pe. This increased load will include effluent from Shannonvale and Ring villages.

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

It must be noted that Clonakilty Harbour is classified as a National Heritage Area, Special Area of Conservation and a Special Protection Area.

Emissions from the plant are to comply with the Urban Wastewater Treatment Directive whose limits are :

BOD – 25 mg/l; SS – 35 mg/l; Phosphorus – 2 mg/l; Nitrogen – 15 mg/l

Peak hydraulic load proposed through the plant after upgrade = $3 \text{ DWF} = 111 \text{ l/s or } 9590 \text{ m}^3/\text{d}$ Flows in excess of this will be required to be overflowed at pump stations to storm tanks or for discharge to harbour.

One of the main concerns regarding the effects of the emissions on the environment is the classification of Inchydoney as a Blue Flag beach. The fact that it has maintained its status as such for the last number of years is an indication of the quality of water in the area and the compliance with coliform requirements.

The Environmental Impact Statement accompanying this application was carried out in conjunction with the proposed upgrade of the Wastewater Treatment Plant. This found that the optimum location for the outfall from the plant is its present one as the distance to Inchydoney beach meant the greatest reduction in bacterial contamination occurred.

The EIS also recommends that in order to allow for any change in the designation of the receiving waters or any increase in the wastewater flows, the WWTP should be designed to allow for retrofitting of disinfection equipment so that coliform levels in the treated effluent be reduced if necessary.

Modelling carried out as part of the EIS indicated that an increase in nutrient levels in Clonakilty Harbour is unlikely to occur due to full tidal flushing of the estuary on each tidal cycle. However, at low river flows, the effluent from the WWTP will result in unacceptably high concentrations of nitrogen and phosphates in the receiving water.

It is recommended that the WWTP should provide for reduction of nitrogen and phosphates in the treated effluent. The maximum levels of total phosphorus (P) and total nitrogen (N) in the treated effluent being discharged to sensitive areas under the Urban Wastewater Treatment Regulations 2001 are 2 mg/l P and 15 mg/l N. These levels are considered appropriate for the upgraded and expanded Clonakilty WWTP. Allowance should be made in the design of the WWTP for the further reduction in nitrogen and phosphates in the effluent if required.

In relation to odour and noise emissions the EIS states

- 1. Odour emissions are not predicted to be perceived at any sensitive receptor beyond the site boundary.
- 2. During the operational phase it has been concluded that the facility will not result in an adverse impact at the nearest sensitive receptors arising from on-site plant noise.

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

Technologies

It is proposed to include SCADA technology in the upgrade of the plant to ensure proper monitoring and alarming of all equipment associated with running of the plant and pumphouses overflows etc. This will lead to rapid response to any problems or emergencies that may arise in the course of operation of the scheme.

Techniques

It is proposed to develop a Performance Management System (PMS) for the Clonakilty Wastewater Treatment Plant. This will provide a uniform approach to dealing with all relevant performance management issues including emergency procedures, reporting procedures and plant operation procedures.

The EIS recommends facilities be provided in upgrading of WWTP to allow for retrofitting of disinfection as well as nitrogen and phosphorus removal if such becomes necessary at a later date.

It is proposed to provide odour control and removal at both the inlet works and the sludge treatment plant to ensure no detrimental effect to adjacent development.

Measures planned to comply with the general principle of the basic obligations of the operator, i.e., that no significant pollution is caused An upgrade of the wastewater treatment plant approved under the Water Services Investment Programme is to be carried out in the near future in order to cater for a total loading of 20,500 pe. For further details concerning these proposals see Section B Capital Investment Programme of the application.

This will lead to improvement in the quality of effluent from the wastewater treatment plant with consequent beneficial effects on the environment.

Included in the improvements is a storm tank serving Long Quay pump station which will retain storm overflow of 30 minutes duration thus leading to reduction of possible pollution particularly that caused by "first flush".

Modelling carried out as part of the EIS indicated that an increase in nutrient levels in Clonakilty Harbour is unlikely to occur due to full tidal flusing of the estuary on each tidal cycle. However, at low river flows, the effluent from the WWTP will result in unacceptably high concentrations of nitrogen and phosphates in the receiving water.

It is recommended that the WWTP should provide for reduction of nitrogen and phosphates in the treated effluent. The maximum levels of total phosphorus (P) and total nitrogen (N) in the treated effluent being discharged to sensitive areas under the Urban Wastewater Treatment Regulations 2001 are 2 mg/l P and 15 mg/l N. These levels are considered appropriate for the upgraded and expanded Clonakilty WWTP. Allowance should be made in the design of the WWTP for the further reduction in nitrogen and phosphates in the effluent if required.

Measures planned to monitor emissions into the environment

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SECTION B: GENERAL

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

B.1 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 <u>clearly marked in red ink</u>.

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

*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.

		14:204	
Name*:	Declan Groarke	er a for	
Address:	Cork County Council	120-illee	
	Courthouse	n Pri toge	
•	Skibbereen	ctionet	,
	Co. Cork	A STANDARD	
Tel:	028-21299	COL TIPE	
Fax:	028-21995	COD,	
e-mail:	declan.groarke@corke	coto.ie	

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

Co-Applicant's Details

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

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

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Design, Build & Operate Contractor Details

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

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

Attachment B.1 should contain appropriately scaled drawings / maps (≤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.

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

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

Name*:	John Conroy
Address:	Clonakilty Wastewater Treatment Plant
	Youghals
	Clonakilty for stre
	Co. Cork
Grid ref	E138971 N041282 50
(6E, 6N)	M ^{SC}
Level of	Secondary C
Treatment	·
Primary	023-34206
Telephone:	
Fax:	023-33147
e-mail:	john.conroy@corkcoco.ie

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

Attachment B.2 should contain appropriately scaled drawings / maps (≤A3) of the site boundary and overall site plan, including labelled discharge, monitoring and sampling points. These drawings / maps should also be provided as georeferenced 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.

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Attachment in	cluded	Ye	s No
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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	Open pipe		
Discharge			
Location	Youghals, Clonakilty		
Grid ref	E139030 N041311		
(6E, 6N)	· · · · · · · · · · · · · · · · · · ·	· .	

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.

Attachmen	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	Outfall pipe	
Discharge		
Location	Long Quay	
Grid ref (6E, 6N)	E138859 N041382	

Type of Discharge	Flap valve		
Location	Clarke Street		
Grid ref (6E, 6N)	E138667 N041336		

Type of	Piped to Soakaway	· · · · · · · · · · · · · · · · · · ·	
Discharge			
Location	Gallanes		
Grid ref (6E, 6N)	E140690 N042600		
-			
Type of Discharge	Outfall pipe		

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		!	
Location	Inchydoney	12	-
Grid ref (6E, 6N)	E139612 N038533		
		·	
Type of Discharge	Outfall pipe		
Location	Inchydoney	· ·	
Grid ref (6E, 6N)	E139373 N038612		

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 inclu	ıded	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	Flap valve	
Discharge	FOLVINS	×
Location	Long Quay Pump Station	
Grid ref	E138859 N041382	· · ·
(6E, 6N)	CONSC	

Type of	Flap valve
Discharge	
Location	Clarke Street Pump Station
Grid ref	E138667 N041336
(6E, 6N)	

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

Attachmen	t 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:	Clonakilty Town Council	
Address:	Town Hall	
	Kent Street	
· · · · · · · · · · · · · · · · · · ·	Clonakilty	
	Co. Cork	
Tel:	023-33380	
Fax:	023-33558	
e-mail:	council@clonakilty.ie	

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

has been obtained	is being processed
is not yet applied for	is not required

Local Authority Planning File Reference Nº: 50070-06

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	S. S	Yes	No
		othor	\checkmark	
		COTT		

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 SFA	DCo Area	Y	res No	
	Market Property and American Sciences and Ameri American Sciences and American Scienc			

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.

WWD Application Form V2/07

Name:	Health Service Executive	۹. °
Address:	Area Headquarters	
	Hospital Grounds	•
	Skibbereen	
Tel:	028-40400	
Fax:	028-21006	
e-mail:		

B.7 (iii) Other Relevant Local Authorities

Regulation 13 of the Waste Water Discharge (Authorisation) Regulations, 2007 requires all applicants, 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, to notify the relevant local authority of the said application.

Name:	Clonakilty Town Council	
Address:	Town Hall	
· .	Kent Street	
	Clonakilty	
Tel:	023-3380	
Fax:	023-33558	
e-mail:	council@clonakilty.ie	
	83. 203	

Relevant	Authority N	otified	Yes	No

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

Attachment include	Ye	s No
	\sim	

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 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 two copies of the application.

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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	15,000
Data Compiled (Year)	2005
Method	Composite Sample

B.9 (ii) 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.



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.

Attachme	nt 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	: include	d	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 Forsehore Act 1933, including a copy of **all** conditions attached to the licence and any monitoring returns for the previous 12-month period, if applicable.

Consent of copyright owned required for any other use.

Attachment included	Yes	No

Page 15 of 25

ATTACHMENT No B.1 AGGLOMERATION BOUNDARY

of copyright

or any



Prepared By: J.CREACH Drawing number: Job Title: Drawing Title: LICENCE_APPLICATION_TO_EPA Cork County Council, ATTACHMENT_B.1-SHEET3_OF_3 AGGLOMERATION_BOUNDARY SERVED_BY_WASTE_WATER TREATMENT_PLANT Western Division. CLONAKILITY_WWTP 맒 Checked By: D.GROARKE Scales: 1:10000 N.O'MAHONY,B.E., SENR.ENGR. (WATER SERVICES), COURTHOUSE, SKIBBEREEN. M. MURRELL., DIRECTOR OF SERVICES WEST CORK Rev: Date:

AGGLOMERATION BOUNDRY

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Drawing number: Drawing Title: ATTACHMENT_B.1-SHEET_2_OF_3 AGGLOMERATION_BOUNDARY SERVED_BY_WASTE_WATER TREATMENT_PLANT Prepared By: J.CREAGH Job Title: LICENCE_APPLICATION_TO_EPA Cork County Council, Western Division. ł CLONAKILITY_WWTP Chka Checked By: D.GROARKE Scales: 1:10000 n.o'mahony,B.E., senr.engr. (water services), courthouse, skibbereen. M. MURRELL, DIRECTOR OF SERVICES WEST CORK Date: DIEK Rev:

AGGLOMERATION BOUNDRY

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ATTACHMENT No B.2 WWTP SITE BOUNDARY

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ATTACHMENT No B.3 PRIMARY DISCHARGE LOCATION

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ATTACHMENT No B.4 SECONDARY DISCHARGE LOCATION

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-	ET_2_OF_3 Checked By: D.GROARKE Date: D.GROARKE DEC Scales: 1:2000	XHMENT_B.4 DISCHARGE_POINTS	GLITY_WWTP LICATION_TO_EPA	N.O'MAHONY,B.E., SENR.ENGR. (WATER SERVICES), COURTHOUSE, SKIBBEREEN. M. MURRELL, DIRECTOR OF SERVICES WEST CORK	unty Council, n Division.		ey Ireland data reproduced under ork County Council CCMA2004/07 tion infringes Ordnance Survey t of Ireland

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- OSi Licence number Cork County Council CCMA2004/07

ATTACHMENT No B.5

STORM WATER OVERFLOW, LOCATIONS



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CLON_10	Prepared By: J.CRREACHE Drawing number:	Drawing Title: ATTAC STORM_WATER	Job Title: CLONAK LICENCE_APPI		Cork Cou Wester	No. Date Dran Surv CHad			Unauthorised reproducti
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ATTACHMENT No. B.6

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Consent

PLANNING PERMISSION



TOWN COUNCIL **CLONAK**

Comhairle Bhaile Chloich na Coille

Phone: 023-33380 Fax: 023-33558 email: clontc@corkcoco.ie TOWN CLERK'S OFFICE. TOWN HALL, KENT STREET. CLONAKILTY, WEST CORK.

1st May, 2007

Cork County Council, Courthouse, Skibbereen, Co Cork.

0 3 MAY 2007

Cork County Council

Planning Reg. Ref. 50070-06 Re:

Permission for upgrading of Clonakilty Wastewater Treatmwnt Plant At: Inchydoney Road & Long Quay, Clonakilty, Co Cork.

A Chara,

Further to our correspondence of 29th January 2007, The Department of the Environment, Heritage and Local Government recomments that included as (West) Department Monitoring, as decribed below be carried out at this site and be included as (West) Department Environment, Heritage and Local Government recommends that Arenaeplogical 0 3 MAY 2007

"Archaelolgical Monitoring shall consist of the following:

- Norton House, Skibbereen, Co. Cork 1. The applicant is required to engage the services of a suitably qualified archaeologist to monitor all topsoil stripping associated with the development.
- 2. Should archaeological material be found during the course of monitoring, the archaelogist may have work on the site stopped, pending a decision as to how best to deal with the archaeology. The developer shall be prepared to be addressed by the Department of the Environment, Heritage and Local Government with regard to any necessary mitigating action (e.g. preservation in situ, and/or excavation). The applicant shall facilitate the archaeologist in recording any material found.
- 3. The Planning Authority and the Department of the Environment, Heritage and Local Government shall be furnished with a report describing the results of the monitoring

1999 - National Tidy Towns Award Winner • 2000 - Entente Florale - Gold Award Winner • 2001 - Nations in Bloom - Gold Award Winner 2004 - Communities in Bloom - International Challenge . 2004, 2005, 2006 - National Tidy Towns - Gold Award Winner 2006 - Pride of Place Award - 1st · 2006 - International LivCom Awards - Silver

<u>Reason:</u> To ensure the continued preservation (either *in situ* or by records) of place, caves, sites, features or other objects of archaelogical interest,"

Consent of constraint owner required for any other i

Mise le meas

Nicola Radley

Town Clerk

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Clonakilty Town Council

Planning and Development Act, 2000

To: Cork County Council Court House, Skibbereen Co. Cork

Register Reference Number: T.P. 50070/06

Re: Application for Permission received on 24/11/2006

from:- Cork County Council

of:-

for

at

Court House, Skibbereen, Co. Cork

upgrading of Clonakilty Wastewater Treatment Plant at Inchydoney Road to cater for a population equivalent of 20,500, including expansion and covering of inlet works, construction of aeration tank and settling tank, 2 no. covered primary settling tanks, compressor/dewatering house and picket fence thickener and other ancillary works. Upgrading of pumping station and construction of storm holding/balancing tank at Long Quay. The Planning Application is accompanied by an Environment Impact Statement (EIS) which was available for inspection or purchase at the offices of the Planning Authority, Clonakilty Town Council

Inchydoney Road & Lond Quay Clonakilty Co Cork

Further to Notice dated 25th January 2007, Clonakilty Town Council hereby conveys a grant of Permission for the development described above subject to the conditions set out in the Second Schedule, attached to the said Notice of its intention to grant Permission.

Signed on behalf of Clonakilty Town Council

Nicola Radley Town Clerk 28/02/2007

NOTE FOR GUIDANCE OF DEVELOPERS

A grant of Permission does not of itself empower a person to carry out a development unless that person is otherwise legally entitled to do so. Unless otherwise stated or unless it is revoked, a Permission is valid for a period of five years.

Any development which takes place prior to the payment of a financial contribution required by any of the conditions attached to a permission or permission consequent on the grant of Outline Permission will be unauthorised until compliance with the condition or conditions.

Please note that there is an onus on developers to ensure that there is no danger to the public as a result of the proposed development.

CLONAKILTY TOWN COUNCIL

Planning & Development Act 2000

Notification of Decision to Grant Permission subject to Conditions

TO: Cork County Council Courthouse Skibbereen Co Cork



Planning Register Number: 50070/06

In pursuance of the powers conferred upon them by the above mentioned Act, Clonakilty Town Council have, by Order dated 25th January, 2007, decided to **GRANT PERMISSION** for the development of land, namely:-

- to: Upgrading of Clonakilty Wastewater Treatment Plant at Inchydoney Road to cater for a population equivalent of 20,500, including expansion and covering of inlet works, construction of aeration tank and settling tank, 2 no covered primary settling tanks, compressor/dewatering house and picket fence thickener and other ancillary works. Upgrading of pumping station and construction of storm holding /balancing tank at Long Quay. The planning application is accompanied by an Environmental Impact Statement (EIS) which will be available for inspection or purchase at the offices of the Planning Authority, Clonakilty Town Council
- at: Inchydoney Road & Long Quay Clonakilty Co Cork

in accordance with plans and particulars lodged with the Council on 24/11/2006 and subject to the 11 no. condition set out in the Second Schedule attached hereto.

An appeal against the decision of the Planning Authority may be made to An Bord Pleanala by any person BEFORE the EXPIRATION of the period of FOUR WEEKS beginning on the day of the giving of the decision (i.e. the date of the Order) of the Planning Authority. (SEE NOTE ATTACHED).

If there is no appeal against the said decision, a GRANT of Permission in accordance with the decision will be issued after the expiration of the period within which an appeal may be made to An Bord Pleanala.

It should be noted that until a grant of Permission has been issued, the development in question is NOT AUTHORISED.

Signed on behalf of Clonakilty Fown Council

Noel Tobin A/Town Clerk 25/01/2007

CLONAKILTY TOWN COUNCIL

Application Reg. Ref. No. 50070/06

FIRST SCHEDULE

Having regard to the polices set out in the current Town Development Plan and the pattern of existing and permitted development in the vicinity it is considered that subject to compliance with the conditions set out in the Second Schedule herein the proposed development would be in accordance with the proper planning and sustainable development of the area.

Consent of constitution of the required for any other use

SECOND SCHEDULE

Register Reference No. 50070 /06

6	Column 1	- (C	ondition)		Column 2 – (Reason)
1	. Prior for the measu	to the e con ire to	e commencement of development a program astruction phase of the project to include o minimise environmental emissions		To safeguard the amenities of the area
2	the ap to be of odo	to the plica agree ours a	e date of commissioning of the development, ant shall install and provide adequate measures and with the Planning Authority for the control and environmental emissions from the plant.		To safeguard the amenities of the area
3	. Prior to develo proposithe tre	to the oper i sal fo ated	e commencement of development the shall submit to the Planning Authority a or the reduction of nitrogen and phosphates in effluent.		To safeguard the amenities of the area
4	. All co propos dispos	nstru sed d sed o	nction and demolition waste resulting from the levelopment to be removed off site shall be f in a licensed facility	ů _P	In the interest of orderly development and to prevent unauthorised dumping
5.	. Upon the ev emissi Planni a) b)	comi ent o ons f ng A ider carr	ing into operation of the development and In f an incident that may cause environmental the plant operator shall immediately notify the authority as below ntify the date, time and place of the incident; ry out an immediate investigation to identify		
	-,	the any	nature, source and cause of the incident and emission arising therefrom;		
	c) d)	isol eva cau	ate the source of any such emission; luate the environmental pollution, if any, sed by the incident;		To safeguard the amenities of the area
	e)	ider emi	ntify and execute measures to minimise the ssions/malfunction and the effect thereof;		
	f)	pro its a occ	vide a proposal to the Planning Authority for agreement within one month of the incident urring to:		
		1)	identify and put in place measures to avoid reoccurrence of the incident; and		
-		2)	identify and put in place any other appropriate remedial action.		

Column 1 - (Condition)	Column 2 – (Reason)
6. Upon coming into operation of the facility regular monitoring of nutrient levels (nitrogen and phosphorous) in the receiving waters shall be carried out to determine if the nutrients from the plant are the cause of unacceptable nutrient levels in Clonakilty harbour. Allowance shall be made in the design for the further reduction of nitrogen and phosphates in the effluent discharge if required.	To safeguard the amenities of the area
7. Odour monitoring shall be carried out at the perimeter of the facility on twice annual basis and results submitted to the Planning Authority.	To safeguard the amenities of the area
8. Results of effluent discharge monitoring shall be submitted to the Planning Authority for information on an annual basis	To safeguard the amenities of the area
9. At least one month before commencing development, the developer shall pay a contribution of £51,831.89 (fifty one thousand eight hundred & thirty one euro eight nine cent) to Clonakilty Town Council in respect of public of infrastructure and facilities benefiting development in the area of the planning authority. The value of this contribution is calculated in accordance with the Council's Development Contribution Scheme, and shall be increased at a rate of 8% per annuar in the period between the date on which this value was calculated and the date of payment. No development shall take place until the monies have been paid to the Council	It is a requirement of the Planning & Development Act, 2000 that a condition requiring a contribution in accordance with the Development Contribution Scheme made under Section 48 of the Act, be applied to the permission
10. Slate finish to match existing building	In the interest of visual amenity
11. Samples of windows and doors to be submitted and agreed prior to the commencement of development	In the interest of visual amenity

Walen Services Courthouse CLONAKILTY TOWN COUNCIL Comhairle Bhaile Chloich na Coille Phone: 023-33380 TOWN CLERK'S OFFICE. Fax: 023-33558 TOWN HALL. email: clontc@corkcoco.ie KENT STREET, CLONAKILTY, WEST CORK. 30/11/2006 Reg. Ng, Planning (West) Department Cork County Council 0 7 DEC 2006 Cork County Council Courthouse Cork County Council Norton House, Skibbereen, Co. Cork Skibbereen C Cork Register Reference Number: T.P 50070/06 A Chara, I wish to acknowledge receipt of your application for Permission under the Planning & Development Act, 2000, for development as follows: Date received : 24/11/2006 0 6 DEC 2006 Inchydoney Rd & Long Quay Site Address : Clonakilty Co Corlo

Development upgrading of Clonakilty Wastewater Treatment Plant at Inchydoney Road to cater for a population equivalent of 20,500, inculuding expansion and covering of inlet works, construction of aeration tank and settling tank, 2 no covered primary settling tanks, compressor/dewatering house picket fence thickner and other ancillary works. Upgrading of pumping station and construction of storm holding /balancing tank at Long Quay. The planning application is accompanied by an Environmental Impact Statement (EIS) which will be available for inspection or purchase at the offices of the Planning Authority, Clonakilty Town Council

I also acknowledge receipt of application fee of €3222.00. Receipt no. 32577 refers.

Please quote the above Register Reference Number in all future correspondence.

Mise le meas,

H. Murph Nicola Radley

Nicola Radley Town Clerk

1999 - National Tidy Towns Award Winner 2000 - Entente Florale - Gold Award Winner 2001 - Nations in Bloom - Gold Award Winner 2004 - Communities In Bloom - Winner in Small Communities International Challenge



CLONAKILTY TOWN COUNCIL

Comhairle Bhaile Chloich na Coille

TOWN CLERK'S OFFICE, TOWN HALL, KENT STREET, CLONAKILTY, WEST CORK.

Phone: 023-33380 Fax: 023-33558 email: clontc@corkcoco.ie

Receipt Date 28/11/06



1999 - National Tidy Towns Award Winner 2000 - Entente Florale - Gold Award Winner 2001 - Nations in Bloom - Gold Award Winner 2004 - Communities in Bloom - Winner in Small Communities International Challenge

ATTACHMENT No B.7(iii) NOTICE TO OTHER AUTHORITIES

sent of cop

Town Clerk, Clonakilty Town Council, Town Hall Kent St., Clonakilty, Co. Cork

6th December 2007

<u>Re: APPLICATION TO THE ENVIRONMENTAL PROTECTION</u> <u>AGENCY FOR A WASTEWATER DISCHARGE LICENCE</u>

A Chara,

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007 SI No. 684 of 2007, Water Services Western Division, of Cork County Council, Courthouse, Skibbereen, Co. Cork is applying to the Environmental Protection Agency for a Waste Water Discharge Licence for Clonakilty Waste Water Treatment Plant, Youghals, Clonakilty at the following locations:

Plant Name	Location	National Grid Ref.
Clonakilty WWTP	Youghals, Clonakilty	E139030 N041311

Discharge	Function	Townland	Receptor	Grid Reference
Primary	Main	Youghals	Clonakilty harbour	E139030 N041311
Secondary	Emergency	Scartagh	Clonakilty harbour	E138859 N041382
Secondary	Emergency	Youghals	Clonakilty harbour	E138667 N041336
Secondary	Emergency	Gallanes	Ground	E140690 N042600
Secondary	Emergency	Inchydoney	Muckruss Strand	E139612 N038533
Secondary	Emergency	Inchydoney	Muckruss Strand	E139373 N038612

It is intended to submit the Environmental Impact Statement associated with the proposed upgrading of the Waste Water Treatment Plant to the Agency along with the Application.

A copy of the application for the Waste Water Discharge Licence, the Environmental Impact Statement and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall as soon as is practicable after receipt by the Agency be available for inspection or purchase at the

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

• Cork County Council Offices, Emmet Square, Clonakilty, Co. Cork, Telephone: 023-33347 Fax: 023-33147.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

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hor any other

Yours truly,

Declan Groarke Senior Executive Engineer

ATTACHMENT Noves of the B.8

NOTICES AND ADVERTISEMENTS



CORK COUNTY COUNCIL COMHAIRLE CONTAE CHORCAÍ

PLANNING

CORK COUNTY COUNCIL (NORTH) NOTICE UNDER SECTION 179 OF THE PLANNING & DEVELOPMENT ACT 2000 & PART 8, ARTICLE 81 AND ARTICLE 83 OF THE PLANNING & DEVELOPMENT REGULATIONS 2001 (AS AMENDED BY ARTICLES 17 AND 19 OF THE PLANNING & DEVELOPMENT REGULATIONS 2006) Pursuant to the requirements of Part 8 of the Planning & Development Regulations 2001 (as amended by Articles 17 and 19 of the Planning and Development Regulations 2006), notice is hereby given that Cork County Council (North) proposes to carry on at development, particulars of which are set out in the

Plans and particulars of the proposed development will be available for inspection or purchase Services Department. Council Officer, Annabella, Mallow Kon 800 am no 500 pm and at the Offices, Malleter from 900 am no 100 pm and 220 pm no 1500 pm accel had yourge you offices are open for the transaction of business (excluding Bank Holidays) for a period ending Jammer 2008.

ubmissions or observations with regard to the proposed development, dealing with the proper planning et development of the area in which the development would be situated, may be made in writing to the nior Engineer, Water Services Department, Cork County Council (North), Annabella, Mallow, Co. Cork is ther than 500 nm 5th February 2008.

SCHEDULE	
Location	Nature and Extent of Development
Coolroe More,	Construction of a new 700m ² over ground precast
Lyre.	concrete water storage reservoir, pump house, site
Millistreet.	fencing and associated works
Co Cork	ionenig and associated works

Mr. Tom Stritch, Director of Services, Annabella, Mallow, Co. Cork. 30th November 2007

CORK COUNTY COUNCIL (NORTH)

NOTICE UNDER 8, ARTICLE 81 / 2001 (AS AMEN REGULATIONS 2	SECTION AND ARTI DED BY A 2006)	I 179 OF	THE PI OF THE S 17 AN	ANNING A PLANNIN D 19 OF T	& DEVELOF 5 & DEVEL HE PLANN	PMENT & OPMENT ING & DI	CT 2000 & PA REGULATION EVELOPMENT	RT S

Pursuant to the requirements of Part 8 of the Planning & Development Regulations 2001 (as amended by Articles 17 and 19 of the Planning and Development Regulations 2006), notice is hereby given that Cork County Council (North) proposes to carry out a development, particulars of which are set out in the

Plans and particulars of the proposed development will be available for inspection or purchase at the Wate Services Department, Council Officer, Annabella, Mallow from 95,00 am to 500 pm. in or seck day during which said offices are open for the transaction of business (excluding Bank Holidays) for a period ending 19th January 2008.

nissions or observations with regard to the proposed development, dealing with the proper planning levelopment of the area in which the development would be situated, may be made in writing to the or Engineer, Water Services Department, Cork County Council (North), Annabella, Mallow, Co. Cor ker than 5:00 pcm. Silt February 2008.

SCHEDULE	
Location	Nature and Extent of Development
Knockavaddra, Bweeng, Mallow, Co Cork.	Construction of a new 450m3 over ground precast courrete water storage reservoir, demolition of existing concrete reservoir, site fencing and associated works

Mr. Tom Stritch, Director of Services, Annabella, Mallow, Co.Cork. 30th November 2007

CORK COUNTY COUNCIL (NORTH)

NOTICE UNDER SECTION 179 OF THE PLANNING & DEVELOPMENT ACT 2000 & PAR 8, ARTICLE 81 AND ARTICLE 80 OF THE PLANNING & DEVELOPMENT REGULATIONS 2001 (AS AMENDED BY ARTICLES 17 AND 19 OF THE PLANNING & DEVELOPMENT REGULATIONS 2005) urmant to the requirements of Part 8 of the Planning & Development Regulations 2001 (as amended by rticles 17 and 19 of the Planning and Development Regulations 2006), notice is hereby given that Cork outsy Council (North) proposes to carry out a development, particulars of which are set out in the rhelide hereander.

na and particulars of the proposed development will be available for inspection or purchase at the W wives Hoppartment. Council differe, Annabella, Mallow form 2003 nr. 10:500 pm. and at the Counc coer, Millierte through 00 nr. 10:100 pm. and 200 pm. to 500 pm. on each diff writing Which sub ces are copie for the transaction of business (excluding Bank Holdays) for a period ending 18th ary 7 2000.

Submissions or observations with regard to the proposed development, dealing with the proper plannin and development of the area in which the development would be situated, may be made in writing to the Senior Engineer, Water Services Department, Cork County Council (North), Annabella, Mallow, Co. Co not kirc than 500 µm. 501 (Forumz 2006).

Location	Nature and Extent of Development
Knockduff Upper,	Construction of a new 700m ² over ground precast
Cullen,	concrete waterstorage reservoir, demolition of
Mallow	existing concrete reservoir, site, fencing and
Co.Cork.	associated works

Mr. Tom Stritch, Director of Services, Annabella, Mallow, Co. Cork. 30th November 2007

POADS

CORK NORTHERN RING ROAD SCHEME PART I Public Exhibition – Preferred Route Corridor (Western Section – Part I) December 2007

Cork County Council and Cork City Council, in consultation with the National Roads Authority, a holding a public exhibition for the above project to outline the preferred route corritor for the We section of the scheme (Part I - N22 Ballinooling Bryans to N20 Cork to Mallow Road), which has developed by the Cork National Roads Office in conjunction with the Scheme Consultants Fehily Califord/Pchilty Transery Ramboli.

To afford an opportunity for the public to be fully informed of the scale and extent of the preferred route corridor option chosen, you are invited to attend a Public Exhibition Session to be held at the following location:

UATE Wednesday	IME	VENUE Kingsley Hotel
5th December 2007	2.00pm to 8.00pm	Victoria Cross

Road Traffic Act 2004 Road Works Speed Limits-Macroom

Notice is hereby given that in exercise of the powers vested under Section 10 of the Road Traffic Act, 2004 and in the interests of road safety, Cork County Council has made a Road Works Speed Limit Order in respect of the following road:

L3402-Reananerree to Ballingeary Road Extending the existing 50kph zone approximately 800m west.

This is to facilitate road improvement works. The Road Works Speed Limit shall be 50kph and will apply from 30th November 2007 to 31st August 2008 inclusive, or until such earlier dates as may be determined by Cark County Council.

Representations in this matter may be made in writing to Claire O'Neill, A/Staff Officer, Roads Department, Floor 5. County Hall, Cork. Director of Services, South Cork Area Operations

PUBLIC NOTICES

Cork County Council Northern Division APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007 SI No. 681 of 2007 Services Northern Division, of Cork County Council, Annabella, Mallow, Co. Cork is applying to the Environmental Protection Agency for a Waster Water Discharge Licence for Mallow Waster Water

Plant Name	Locati	en	Natio	onal Grid Ref.
Mallow WWT	P Ballye Townia	llis, Mallow and of Ballyellis	E15	7318 N097988
Primary	Main	Ballyellis	Blackwater	E157530 N98140
Secondary	Emergency	Bearforest	Blackwater	Bearforest

Secondary	Emergency	Bearforest Lower	Blackwater	Summerhill
Secondary	Emergency	Spa Glen	Blackwater	Ballylough Cross
Secondary	Emergency	Bellydahin	Blackwater	Quartertown Road Railway Bridge
Secondary	Emergency	Lacknaloohz	Blackwater Street	Lower Beecher
Secondary	Emergency	Castlelands	Blackwater	Davis St/Shambles Lane
Secondary	Emergency	Mallow [Blackwater	West End

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 ouscand the Environmental Impact Statement associated with the recently completed
 upgrading of the Waste Water Treatment Plant to the Agency onlog with the Application.
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The Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wesford, Lo Call 1890 335 599 Telephone: 053-9160600 Fax: 053-9160699 Empilied/Sens in and

Cork County Council Offices, Annabella, Mallow, Co. Cork, Telephone: 022 21123 Fax: 022 21983.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

PUBLIC NOTICES CONT'D Cork County Council Northern Division

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007 SI No. 684 of 2007, Services Northern Division, of Cork County Council, Annabella, Mallow, Co. Cork is applying to the Environmental Protection Agency for a Waster Water Discharge Licence for Fermoy Waste Water Treatment Flank, Courthouse Road, Fermoy at the following locations: Plant Name Location National Grid Ref.

Fermoy WWTP Cou Tow		ouse Road, Fermoy and Of Strawhall	E182283 N098765	
Discharge	Function	Townland	Receptor	Grid Reference
Primary	Main	Strawhall	Blackwater	E182331 N098819
Secondary	Emergency	Strawhall	Blackwater	E182193 N098780
Secondary	Emergency	Carrignagroghera	Blackwater	E181462 N098719
Secondary	SW+Trade	Carrignagroghera	Blackwater	E181232 N098624
Secondary	Emergency	Carrignagroghera	Blackwater	E181191 N098622
Secondary	Emergency	Fermoy	Blackwater	E181400 N098557
Secondary	Emergency	Fermoy	Blackwater	E181217 N098500
Secondary	Emergency	Fermov	Blackwater	E180936 N098498

It is intended to submit the Environmental Impact Statement associated with the recently completed ungrading of the Waste Water Treatment Plant to the Agency along with the Application. A copy of the application for the Waste Water Discharge Lacence, the Eavimenential Impact Statement and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall as soon as is practicable after receipt by the Agency, be valiable for impaction or purchase at:

The Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599 Telephone: 053-9160600 Fax: 053-9160609 Email:info@epa.ie and at

Cork County Council Offices, Annabella, Mallow, Co. Cork, Telephone: 022 21123 Fax: 022 21983. Submissions in relation to the application may be made to the Euvironmental Protection Agency at its readquarters described above

Cork County Council Southern Division

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

accordance with the Waste Water Discharge (Authorisation) Regulations 2007 SI No. 664 of 2007, Water prices Southern Division of Cork County Council, County Hall, Carrigrohane Road, Cork is applying to E Davroamental Protection Agency for a Waste Water Discharge Licence in respect of Blar ney astewater Troatment Plant serving the agglomeration of Blarney.

 Plant Name
 Lucation
 National Grid Ref.

 Blarney
 Riverview Betate, Tower, Co. Cork
 E159196 N74918

 WWTP
 Townland of Kilnamucky
 E159196 N74918

Discharge	Function	Townland	Receptor	Grid Reference
Primary Secondary	Main Outfall Emergency	Kilnamucky Woodside	River Shournagh River Shournagh	E159261 N74835 E160341 N73241
Secondary	Emergency	Cooldugh	Owennagearagh	E157548 N74040
Secondary	Emergency	Shean Lower	Mill Race to River Martin	E161602 N75245
han the second set a	*		at an at a set of the dama	1.41

It is intended to submit the Environmental Impact Statement associated Waste Water Treatment Plant to the Agency along with the Application. copy of the application for the Waste Water Discharge Licence, the Environmental Impact Statement and uch intriner information relating to the application as may be furnished to the Agency in the course of the gency's consideration of the Application shall, as soon as is practicable after receipt by the Agency, be raliable for inspection or murchase at:

The Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1880 335 599 Telephone: 053-9160600 Fax: 053-9160699 Email:Info@estais and at

Cork Council Offices, Water Services South, County Hall, Carrigrohand Soad, Co. Cork, Telephone: 021-4276891 Fax: 021-4276321.

ssions in relation to the application may be made to the Environmental Protection Agency at its sarriers described above. Cork County Council Southern Division

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Wase Water Discharge (Authorizente) in Geneticing 2007 SI No. 684 of 2007. We applied the Eventue's Southern Discharge of County Council, David Pille, Carringshow Roul, Cork is applied the Eventue Rout. Cork is applied to the Southern Discharge License in respect of Carrightonhill Waterwater Pinat serving the agglored loss of Geringtwohill.

Plant Name	Location 🔨	Natio	nal Grid Ref.
Carrigewohill	Tullagreen	A E181	177 N72228
I WWTP	Carrigtwohill Co. Con	¥.	
·	Iownland of Carrietw	ohill	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Discharge	Function Toomland	Receptor	Grid Reference
Primary	Main Outfall Auflagreen	Slatty Waters	E180600 N72278

Secondary Emergency Tullagreen Barryscourt E181731 N72685 It is intended to submit the Edvironmental Impact Statement associated with the proposed upgrading of the Waste Water Treatment Plant to the Agency along with the Application.

A copy of the application for the Waste Water Disclarge Licence, the Environmental Impact Statement and such further information relating to the application as may be furnished to the Agency in the course the Agency Schnstlerakinn of the Application shall, as soon as is practicable after receipt by the Agency available of measure in or processes at:

The Invironmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599 Telephone: 053-9160600 Fax: 053-9160699 Mail-Indiana is and a

Cork County Council Offices, Water Services South, County Hall, Carrigrohane Road, Co. Cork, Telephone: 021-4276891 Fax: 021-4276321. Submissions in relation to the application may be made to the Environmental Protection Agency at its neadquarters described above.

Cork County Council Southern Division

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Water Water Discharge duthcrisistical logalisations 2007 SLNs, 68 to 2007 Water Services Seathers Division of Carlo Construct Count L Courty Hall, Caricronhae Read. Cork is applying to the Environmental Protection Agency for a Water Water Discharge Lacence in respect of Ballincollig Waterwater Terrestinent Plant environ generation of Ballincollig.

Plant Name	Location	National Grid Ref.
Ballincollig WWTP	Powdermills Ballincollig, Co. Cork Townland of Ballincollig	E159203 N71139

Discharge	Function	Townland	Receptor	Grid Reference
Primary	Main Outfall	Ballincollig	River Lee	E159240 N71520
Secondary	Emergency	Ballincollig	River Magiin	E159686 N70000
Secondary	Emergency	Ballincollig	River Maglin	E159686 N70000
Secondary	Emergency	Carrigrohane	River Lee	E161301 N71619

copy of the application for the Waste Water Discharge Licence and Airther information relating to the plication as may be furnished to the Agency in the cruise of the Agency's consideration of the pplication shall, as soon as is practicable after receipt by the Agency, be available for inspection or trahase at:

The Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Werford, Lo Call 1890 335 599 Telephone: 053-9160600 Fax: 053-9160699 Emailtin0%Penaite and at

Cork County Council Offices, Water Services South, County Hall, Carrigrohane Road, Co. Cork, Telephone: 021-4276891 Fax: 021-4276321. sions in relation to the application may be made to the Environmental Protection Agency at its arters described above.

Cork County Council Southern Division

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

accordance with the Waste Water Dincharge (Authorisation) Regulations 2007, S.I. No. 684 of 2007, Mater Services Southern Division of Cork County Council, County Hall, Carrigrohane Road, Cork is publying to the Daviroumental Protection Agency for a Waste Water Discharge Leonec for the ggiomeration of Colo Rural and Colo Urban at the following locations:

Discharge	Function	Receptor	Townland	Grid Reference
Primary	Major Outfall	Cork Harbour	Ringmeen	E 178243 N 65558
Secondary	Minor Outfall	Cork Harbour	Ringacoltig	E 177547 N 66546
Secondary	Minor Outfall	Cork Harbour	Ringmeen	E 178593 N 65910
Secondary	Minor Outfall	Cork Harbour	Ringmeen	E 178699 N 66007
Secondary	Minor Outfall	Cork Harbour	Ballyvoloon	E 179676 N 66313
Secondary	Minor Outfall	Cork Harbour	Kilgarvan	E 179807 N 66372
Secondary	Minor Outfall	Cork Harbour	Kilgarvan	E 180015 N 66415
Secondary	Minor Outfall	Cork Harbour	Carrignaloy	E 180439 N 66515
Secondary	Minor Outfall	Cork Harbour	Carrignatoy	E 180518 N 66526
Secondary	Minor Outfall	Cork Harbour	Carrignaloy	E 180602 N 66520
Secondary	Minor Outfall	Cork Harbour	Carrignaloy	E 180795 N 66547
Secondary	Emergency	Cork Harbour	Ringmeen	E 178375 N 65605
Secondary	Emergency	Cork Harbour	Ringmeen	E 179466 N 66275
Secondary	Emergency	Cork Harbour	Kilgarvan	E 180068 N 66442
Secondary	Emergency	Cork Harbour	Kilgarvan	E 180281 N 66502

It is intended to submit the Environmental Impact Statement associated with the proposed provis Waste Water Treatment Plant in the Lower Harbour to the Agency along with the Application. A copy of the application for the Waste Water Discharge Licence, the Environmental Impact Statement and further information relating to the application as may be furnished to the Agency in the course of the Age consideration of the Agency and shall, as soon as is practicable user receipt by the Agency, be available for

ration of the Application stata, as soon as to passive any state of the Application stata, as soon as to passive any state of the Application Stat The Co.

Cork County Council Offices, Water Services South, County Hall, Carrigrohane Road, Co. Cork, Telephone: 021-4276891 Fax: 021-4276321. on may be made to the Environmental Protection Agency at its he Submissions in relation to the app quarters described above.

### PUBLIC NOTICES CONT'D

Cork County Council Sout

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007, 51, No. 684 of 2007, Water Services Southers: Division of Corte County Council, County Hall, Carrigrobane Road, Cork is applying to the Environmental Procession Agency for a Waster Water Discharge Licenco in respect of Rathcoursey outfall which includes the aggiomeration of Midleton and trade effluent discharges from the Midleton area.

Plant Name Location Midleton WWTP Ballyannan Townland o		Location Ballyannan, I Townland of	Midleton Garryduff	National Grid Ref. E187505 N72801
Discharge	Function	Townland	Receptor	Grid Reference
Primary Main	Outfail	Rathcoursey West	Ballynacorra River /Estuary	E186177 N69506
Secondary '	Emergency	Ballynacorra West	Ballynacorra Rv	E188366 N71791
Secondary	Emergency	Ballynacorra west	Ballynacorra Rv	E188520 N71783
Secondary	Emergency	Townparks (ED Midleton)	Ballynacorra Rv	E187973 N73127.2
Secondary	Emergency	Townparks (ED Midleton)	Ballynacorra Rv	E188045 N72513.8
Secondary	Emergency	Townparks (ED Midleton)	Ballynacorra Rv	E188268 N72058

is intended to submit the Environmental Impact Statement associated with the provision of a Waste fater Treatment Plant to the Agency along with the Application.

A copy of the application for the Waste Water Discharge Licence, the Environmental Impact Statement and such Arther information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at:

The Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599 Telephone: 053-9160600 Fax: 053-9160699 Email:ind@epa.ie and at

Cork County Council Offices, Water Services South, County Hall, Carrigrohane Road, Co. Cork, Telephone: 021-4276891 Fax: 021-4276321. Submissions in relation to the application may be made to the Environmental Protection Agency at its neadquarters described above.

Cork County Council Southern Division

Cork County Council Western Division

Plant Name Clonakilty WWTP

Secondary

Secondary

Secondary Secondary

ondary

TENDERS

Full details on www.etenders.gov.ie

Discharge Function Primary Main

Emergency

Emergency

Emergency Emergency

Emergency

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007, 51. No. 681 of 2007, Water Services Southern Division of Cortk County Council, County Hall, Carrgrohane Road, Cork is applying to the Environmental Protection Agency for a Waste Water Discharge Licence in respect of Ringustiofdy outfall which includes the aggiomeration of Carrigaline and Crosshaven and trade effort discharges from the Ringustiod/ay area.

Discharge	Function	Townland	Receptor	Grid Reference
Primary	Main Outfall	Ringaskiddy	Cork Harbour	E181358 N062521
Secondary	Emergency	Crossbaven	Owenboy River	E179639 N061145
Secondary	Emergency	Crosshaven	Owenboy River	E178816 N061285
Secondary	Emergency	Carrigaline	MiddleOwenboy River	E173070 N062352
Secondary	Emergency	Carrigaline	MiddleOwenboy River	E173131 N062418
Secondary	Emergency	Carrigaline	EastOwenboy River	E174443 N062603
Secondary	Emergency	Shanbally	Monkstown Creek	E175770 N064679

It is intended to submit the Environmental Impact Statement associated with the proposed provision of a Waste Water Treatment Plant in the Lower Harbour to the Agency along with the Application.

A copy of the application for the Waste Water Discharge Lkence, the Environmental Impact Statement and such further information relating to the application as may be furnished to the Agency in the course of the Agency's considering of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at:

The Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335599 Telephone: 053-0160600 Fax: 053-9160699 Email:info@epa.ie

and an Cork County Council Offices, Water Services South, County Hall, Carrigrohane Road, Cork, Telephone: 021-4276891 Fax: 021-4276321. ubmissions in relation to the application may be made to the Environmental Protection Agency at its earlquarters described above.

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007 Si No. 684 of 2007, Water Servores Western Division, of Cork Counsy Council. Courthouse, Skibbereen, Co. Cork is applying to the Environmental Protection Agency for a Water Water Discharge Licence for Clonakily Waste Water Trustment Plant, Youghab, Clonakidy at the following locations:

National Grid Ref. E139030 N041311

Grid Reference E139030 N041311

E138859 N041382

R138667 N041336

E140690 N042600 E139612 N038533

E139373 N038612

A Export 26-07-2013:00:00:02

Location Youghals, Clonakilty

Townland Receptor Youghals Clonakilty

It is intended to submit the Environmental Impact Statement associated with the proposed upgrading of the Waste Water Treatment Plant to the Agency along with the Application. 

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

nu at Cork County Council Offices, Emmet Square, Clonakilty, Co. Cork, Telephone: 023-3347 Par: 023-33147.

Cork County Council in partnership with Bandon Action Group isvites tenders from suitably qualified town planning consultants to manage a Bandon Action Programme. Closing date for receipt of tenders is 4.00 pm Friday 4th January 2008.

CCC Northern Division invites Teaders from competent Civil Engineering Contractors for the construction of Cartigankigh Slage 1- Upgrading Works (Laying of water mains). Closing date for receipt of tendens is 4.00 pm Friday 11th January 2008.

Vater Services Investment Programme Project Office invites tenders from suitably qualified ontractors for the Bantry Water Supply laterim Scheme – Civil Works. Wasing date for receipt of Innders is 4:400 pm Fridage 11 th January 2008.

Cork County Water Conservation Project invites Expressions of Interest from suitably qualified and experiencel Contractors for the supply or supply installation and commissioning of approximately 500 clearomagnetic balk how movies as algorizationally 400 (clearity outstations across Cork County. Using data for receipt of Lenders is -5400 pm Friday 11th January 2008).

The County Architects Department, Floor 9, County Hall, Cork requires the services of a suitably publified architect led design team for the development of a new corporate head quarters for the Council

qualified architect led design team for the development of a new corporate head quarters for the Council Fire Department at the Link Road, Ballancollig, Co. Cork. Closing data and time for the return of Pre-Qualification Questionnaire is 4.00 p.m. on Priday 4th January 2008.

www.corkcoco.ie

rk County Council (Western Division) seeks tenders from competent Consulting Engineering ms for consulting services in relation to Final Capping and Gas Management at Derryconicil Landfill,

nissions in relation to the application may be made to the Environmental Protection Agency at its quarters described above.

Scartagh

Youghala

Gallanes Inchydoney

Inchydoney

harbour Clonakilty

harbour Clonakilty harbour Ground Muckruss

Strand Muckruss

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE



# **CORK COUNTY COUNCIL**

# SITE NOTICE

# APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007, S.I. No. 684 of 2007, Water Services Western Division, Cork County Council, Courthouse, Skibbereen is applying to the Environmental Protection Agency for a Waste Water Discharge Licence for Clonakilty Waste Water Treatment Plant, Youghals, Clonakilty at the following locations:

Plant Name	Location	National Grid Ref.
Clonakilty WWTP	Youghals, Clonakilty	E139030 N041311

Discharge 🔚	Function	Townland	Receptor	Grid Reference
Primary	Main	Youghals N	Clonakilty harbour	E139030 N041311
Secondary	Emergency	Scartagh	Clonakilty harbour	E138859 N041382
Secondary	Emergency	Youghals	<b>Clonakilty harbour</b>	E138667 N041336
Secondary	Emergency	Gallanes	Ground	E140690 N042600
Secondary	Emergency	Inchydoney	Muckruss Strand	E139612 N038533
Secondary	Emergency	Inchydoney	Muckruss Strand	E139373 N038612

to the

It is intended to submit the Environmental Impact Statement associated with the proposed upgrading of the Waste Water Treatment Plant to the Agency along with the Application.

A copy of the application for the Waste Water Discharge Licence, the Environmental Impact Statement and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall as soon as is practicable after receipt by the Agency be available for inspection or purchase at the

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

and at

• Cork County Council Offices, Emmet Square, Clonakilty, Co. Cork, Telephone: 023-33347 Fax: 023-33147.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.



Prepared By: J.C.R.E.A.C.H. Drawing number: C.L.ON_11	Drawing Title:	And Dem Surv End	<ol> <li>Do not scale, use figure</li> <li>All dimensions to be chi</li> <li>Drawings to be read in</li> <li>Includes Ordnance Surve</li> <li>OSi Licence number Cor</li> <li>Unauthorised reproduction</li> <li>Ireland and Government</li> </ol>	NOTES
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# **SECTION B.10**

# CAPITAL INVESTMENT PROGRAMME

Consent of COPT

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# **APPLICATION FOR A WASTEWATER DISCHARGE LICENCE**

# **CLONAKILTY SEWERAGE SCHEME**

# **B.10 Capital Investment Programme**

The Water Services Investment Programme 2007-2009 for Cork County includes Clonakilty Sewerage Scheme (Plant Capacity Increase) as a scheme to start in 2009 at an estimated cost of  $\epsilon$ 3,677,000. (See copy of Water Services Investment Programme 2007-2009 for Cork County attached)

This improvement will allow for an increase in the design load from 5,333 pe to 20,500 pe in treatment capacity at the Plant. This will cater for future increases in development of existing catchment in Clonakilty, Shannonvale and Inchydoney as well as treatment of sewage from Ring village.

The Preliminary Report prepared by RPS Ltd. was submitted for approval to the Department of Environment Heritage and Local Government in August 2006 and this is still awaited.

The following extracts from Part 1 Introduction and Summary of the Preliminary Report outline the improvements proposed under the Water Services Investment Programme 2007-2009 Scheme:

The main recommendations are as follows:-

- 1. Provide additional aeration and settling capacity.
- 2. Refurbish existing mechanical plant.
- 3. Upgrade the inlet works.
- 4. Upgrade the Long Quay Pumping Station and construct storm holding tank.
- 5. Upgrade sludge treatment and storage.
- 6. Provide odour control and odour removal, both at the sludge treatment plant and on the raw sewage from Inchydoney.
- Construct pumping station in Ring Village and 2.5 km of rising main to pump sewage to gravity main flowing to Clonakilty STP.

## Summary of Costs:

Stage 1 (Emergency Scheme):	€ 1.737.323.24
Stage 2:	€ 2,437,840,75
Ring Village sewage facilities:	€ 542,991.09
Sub-Total:	€ 4,718,155.08
Resident Engineer	€ 260,000.00
Total:	€ 4,978,155.08

9

**Overall Estimate Total:** 

As can be seen from the above summary of costs it was proposed to carry out the scheme in three stages as follows:

Stage 1 – Emergency Scheme to address most immediate problems at Plant

Stage 2 – Balance of works to complete improvements to Plant

Stage 3 - Connection of Ring village to Clonakilty Sewerage Scheme

It is now envisaged that Stages 1&2 will be carried out together followed by the connection of Ring village to the scheme.

A more detailed description of Upgrade of Plant is described in Part 5 of the Preliminary Report as follows:

# 5.3 Proposed Elements for Upgrade of Existing Plant

## 1.1.1 Grit Classifier

In order to eliminate the current situation whereby get along with water and organic materials are being dropped directly into a grit collection pit to dry out, a grit classifier shall be installed. This can be placed in the existing grit collection chamber to separate out the grit from other materials and convey the relatively dry grit into an adjacent wheelie bin or skip.

# 1.1.2 Storm Overflow

The necessity of a storm overflow facility at the treatment works site is entirely dependant on the efficiency and capacity of the storm overflows located at the pumphouses in Clonakilty Town and Inchydoney. The future plant shall have a capacity of 115 l/s (from above). Once the total capacity of the pumps that pump effluent to the works does not exceed 115 l/s, a storm overflow at the treatment plant site is not required. However, it is essential that the storm overflows at the pumphouses in Inchydoney and Clonakilty Town have sufficient storage (6 DWF of the p.e. served), so as to ensure that the adjacent waterbodies are not contaminated by effluent overflowing from pumphouses' storm overflows. Therefore, it is proposed to construct a storm holding tank at Long Quay pumphouse as a preventative measure against possible contamination of the adjacent waterbodies.

# 1.1.3 Screening

The Haigh Ace 991 currently screening inflows has a maximum capacity of 100 l/s. To cater for the maximum hydraulic load of 115 l/s, a second screen inlet such as the Haigh Ace 290 Inlet System or equivalent shall be installed. This shall operate in parallel with the existing inlet screen and Lisep unit during peak season (i.e., summer periods) to remove, dewater, macerate and dispose of screenings. The 3 no. comminutors are no longer being used and shall be removed to provide room for this new inlet screen/Lisep unit.

## 1.1.4 Inlet Flume

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A single 750mm wide channel shall replace the two existing Venturi flumes and channels with a flow capacity of 115 l/s. A precast polystyrene Venturi flume shall be fitted to enable measurement of flow by means of an ultrasonic beam. The existing flow recorder shall be altered to enable measurement and recording of flows through this new channel and Venturi flume.

# 1.1.5 Primary Settlement and Disposal of Sludge Sewage

Circular L6/94 refers to "Strategy Study on Options for the Treatment and Disposal of Sewage Sludge in Ireland". The recommendations include the following:-

- Satellite towns shall have storage facilities for short term storage of sludge awaiting collection.
- New and upgraded works greater than 5,000 p.e. shall include primary settlement as part of sewage treatment.

It is proposed to direct the flow after the inlet flume to 2 no. primary settling tanks, with dimensions and levels as per Drawing No. 04, in order to satisfy the above sludge requirements. After settlement, the flow shall be pumped to the selector tank prior to entering the aeration tanks.

The introduction of primary settlement will result in an estimated 25% reduction in the BOD load to the aeration tanks. The actual BOD load to be aerated would then be 15,375 p.e.

## 1.1.6 Selector Tank

It is proposed to install a selector tank in the location shown on Drawing No. 2, which shall act as the initial contact zone of the extended aeration process where the primary effluent and return activated sludge are combined. This initial contact process prevents and controls the growth of filamentous organisms, which can often lead to bulking sludge. These selector tanks will alleviate the current problem of Nocardia foam evident in the settling tanks. A retention time of 2.5 minutes is sufficient to ensure adequate mixing of the primary sludge and return activated sludge.

Average flow from inlet works =  $0.5 \times 115 = 58$  l/s.

Return activated sludge = 0.33 x 115 = 38.33 l/s

Total entering selector tank = 96.33 l/s

2.5 minutes retention time =  $0.09633 \text{ m}^3/\text{s} \times 60 \times 2.5 = 14.45 \text{ m}^3/\text{s} = \text{approx. 15 m}^3$ .

The selector tank shall consist of two chambers, the first being the inlet chamber where the return sludge and raw wastewater shall mix. A spill-over weir shall divide this chamber and the adjacent splitter chamber, which shall be benched to balance the three flows exiting the selector tank and flowing into the oxidation ditches. 3 no. hand penstocks shall be fitted on the three outlets from the selector tank, so that one stream (oxidation ditch and settling tank) may be shut down for maintenance or during the winter period when loadings to the works are considerably lower.

# 1.1.7 Extended Aeration

A third oxidation ditch shall be constructed to cater for the additional loading to the treatment plant. It shall have the same plan area as the two existing ditches, but shall have a depth of 1.86 m., versus a depth of 1.5 m for the existing ditches. The treatment plant shall then operate in three streams, the first two serving 4,000 p.e. each and being fed through the existing oxidation ditches and the third stream serving 7,375 p.e. being fed through the proposed deeper oxidation ditch.

Loadings/Stream (Oxidation Ditch and Settling Tank):

Stream 1 (existing)	=	4,000 p.e.
Stream 2 (existing)	=	4,000 p.e.
Stream 3 (proposed)	=	7,375 p.e.
-		
Total Loading	=	15.375 p.e.

The existing oxidation ditches were originally designed for 2,667 p.e. each. The loading is to be increased to 4,000. In order to make this possible, it will be essential that the oxygen supply shall be increased. Currently, 4 no. 700 mm diameter rotors (if operating efficiently), provide approximately 404 kg  $O_2$ /day/ditch. However, at present, all rotors are in very poor condition.

# Oxygen Required/Ditch 1 and 2 (Existing):

4,000 p.e. x 0.06 kg BOD x 2 kg  $O_2$  = 480 kg  $O_2$  required.

Therefore, a further 337 kg O₂/day minimum is required per existing ditch. This is assuming that the existing rotors are operating efficiently. It is recommended that the existing rotors should be replaced.

# Oxygen Required for Ditch 3 (Proposed):

7,375 p.e. x 0.06 kg BOD x 2 kg  $O_2$  = 885 kg  $O_2$  required.

Because this proposed ditch is nearest the site boundary adjoining the Model Railway Village, it is essential that the means of aeration shall be selected on the basis that it creates the least odour problems. Air diffusers would be installed on the floor of the tank and mixers included to ensure adequate circulation. There would be little if any disturbance of the surface of the oxidation ditch, hence reducing spray and odours that may be emitted from the plant.

It shall be necessary to repair/replace the automatic adjustable weirs at the exit points from the two existing oxidation ditches.

Because of the varying loads entering the plants during the summer/winter season, dissolved oxygen probes and readings are absolutely necessary in each oxidation ditch to maintain the correct F/M ratio at all times.

**Note:** The assumption that the existing 700 mm diameter rotors produce 404 kg  $O_2$ /day/stream is based on a study carried out on a similar rotor under similar conditions. To be completely accurate on the oxygen produced by the rotors in Clonakilty, it would be necessary to carry out a similar study at the treatment plant under clear water conditions.

## 1.1.8 Secondary Settlement

The two existing settling tanks have a radius of 7.95 m and a side wall depth of 1.5 m. Though originally designed for 2,667 p.e., the settling tanks are adequate for an increased future load.

A third settling tank is proposed to cater with settlement of effluent from the third (proposed) oxidation ditch. This would have a radius of 7.2 m and a side wall depth of 2.25 m. The combined volume of the 3 settling tanks would be 1153 m³, with a total plan area of 560 m². The operating conditions are as follows:

Upward velocity = 0.9 m/hr.

Retention time at maximum flow = 2.2 hrs.

Maximum daily weir loading rate =  $120 \text{ m}^3/\text{m}/\text{day}$ .

# 1.1.9 Outlet Flume

A precast polystyrene Venturi flume would be fitted to the existing outlet channel to enable measurement of flow by means of an ultrasonic beam. A flow recorder shall be installed to enable measurement and recording of flows through this new Venturi flume.

# 1.1.10 Sludge Return

The existing lifting wheel apparatus brings the sludge collected from the hopper of the secondary settling tanks to the outlet end of the oxidation ditches. With the introduction of selector tanks at the inlet end of the oxidation ditches, this set up is no longer suitable. It is proposed to replace the existing sludge lifting wheel chamber with a submersible sludge pump sump. This would collect the sludge from the existing settling tanks and pump it onto the proposed submersible sludge return pump sump (as seen in Drawing No. 2) which would also collect sludge from the third proposed settling tank. These sumps also have the facility to bleed sludge from the oxidation ditches, when required.

From the proposed submersible sludge pumping station, activated sludge shall be returned to the head of the selector tank at a rate of 1 DWF, where it shall mix with the wastewater prior to entering the oxidation ditches.

# 1.1.11 Sludge Thickening

The existing picket fence thickener has a radius of 3.25 m and a side wall depth of 3 m. This picket fence thickener is more than adequate to serve a p.e. of 20,500. Assuming the effluent has 1% DS upon entering the picket fence thickener, it would be capable of thickening the sludge to 2.5% DS. It has a volume sufficient to supply storage for 3 days of sludge produced during optimum operation of the plant, assuming 90 g/head/day of sludge produced. Assuming the picket fence thickener operates five days in the week, the conditions of the picket fence thickener would be in general within the recommended parameters.

# Daily Sludge Production - 2,583 kgs/day.

The introduction of a second thickener would provide 6 days storage of thickened sludge.

# 1.1.12 Odour Control

As the picket fence thickener is located adjacent to the Model Railway village, the existing odour problem is a very serious one and needs to be ratified immediately. The installation of an odour control unit in this area would reduce if not eliminate the odour problems that exist in this area.

# 1.1.13 Sludge Dewatering

The existing sludge is dewatered by means of polyelectrolyte dosing and the use of a filter belt press. The dewatering house and main office/reception are all part of the one building. The existing belt filter press has been operating for 14 years and is capable of thickening the sludge to approximately 15 % DS. The filter belt press has the capacity to deal with a sludge loading rate of 171.36 kg/hr (assuming the filter belt press operates 5 days a week, eight hours a day, serving 20,500 p.e.).

However, this is assuming that the filter belt press operates at optimum efficiency and does not cut out at any stage during the working week. Considering the age of the existing filter belt press, it is recommended that a second filter belt press as well as a second lot of polyelectrolyte dosing pumps and mixing tanks similar to those already in the treatment plant be installed, to act as a standby in the very likely event of a breakdown or necessary maintenance of the existing filter belt press.

# 1.1.14 Dewatering/Compressor House

The existing sludge dewatering house located next to the office may pose a health hazard to the staff working on the premises. Not only are they subject to odours and germs from the dewatering house, but also the constant noise of the filter belt press as it operates. It is proposed, therefore, to isolate the sludge-dewatering house from the office premises by building a new dewatering house/compressor house in the location shown on Drawing No. 2.

This dewatering/compressor shall also house the air compressors which shall supply oxygen to the submerged vertical mechanical aerators in Oxidation Ditch No. 3.

# 1.1.15 Sludge Treatment/Disposal

The disposal of sludge generated in a sewage treatment plant has become the largest and most labour intensive element of that plant. In addition, the introduction of new restrictions with regard to disposal to agricultural land has created requirements for a better quality of treated sludge.

In the 1994 Strategy Study on Options for the Treatment and Disposal of Sewage Sludge in Ireland, it is indicated that sludge from smaller towns is to be transported to a hub centre. At

present a Sludge Management Plan is being prepared and it is not yet established what the final destination of the Clonakilty sludge shall be.

Currently sludge is transported to a landfill site in Roscarberry. This is the last option on a hierarchy of options as outlined by the sludge strategy. Due to the central location of the Clonakilty Treatment Plant, adjacent to the GAA Pitch, the Model Railway Village, and its proximity to the town itself, sludge treatment on site is not a possibility.

Odour control on site is an absolute necessity. At the moment the sludge cake is conveyed from the sludge filter belt press to an open top trailer. This trailer is towed away and deposited in the landfill site daily. The open top trailer does not alleviate the odour problems and an enclosed sludge storage facility with a storage capacity of three days is proposed. For a population of 20,500 p.e., the sludge produced would be approximately 6.5 m³/day (15% DS).

The Waste Management (Use of Sewage Sludge in Agriculture), Amendment Regulations 2001 – SI No. 267 of 2001 governs the use of sludge in agriculture. Under article 4, the use of sewage sludge shall be subject to a nutrient management plan which will secure the protection of soil where the limit of two tonnes of dry matter per hectare per year is replaced by the limits for concentration of heavy metals in soil and sludge referred to in article 6 and set out in Part 1 and part of the Schedule attached to SI No. 267.

In general, only treated sludge may be used in agriculture. However, untreated sludge may be injected or otherwise worked into the land. "Treated Sludge" means sludge which has undergone biological, chemical, heat treatment; long term storage or any other appropriate process so as to significantly reduce its fermentability and the health hazards resulting from its use.

The injection of untreated sludge into suitable agricultural lands locally in accordance with the 2001 regulations may be the cheapest immediate option. However, in terms of the net present value of a 20 year operation, this option will become more expensive the further away the necessary lands are located.

Extensive and ongoing studies are taking place internationally on the most sustainable options for sludge disposal. In the case of Clonakilty, the use of lime stabilisation may be among the least costly options, particularly if treatment is necessary and land to receive the sludge becomes available locally.

In the short term, sludge from the Clonakilty Works could be treated by lime stabilisation using a portable lime stabilisation treatment unit, which could be hired as required. This would enable its spreading over agricultural land, which is a much more suitable option than disposal to a landfill for the Clonakilty Treatment Plant, whose agriculture is prevalent throughout the surrounding area.

A bulk storage tank shall be provided to allow for 3 days storage of the dewatered sludge cake. In the case of lime-dosing, the dewatered sludge shall then be lime-dosed on a twice weekly basis by a mobile lime dosing/mixing rig. The lime dosed sludge shall achieve a temperature of 78°C and, on cooling, can be disposed of to local farms.

This is the most ideal on site method for a number of reasons:-

(a) The mobile unit eliminates the need for the constructing of on site lime dosing facilities which, with the implementation of the sludge strategy may become obsolete in years to

come, when sludge is treated at a central sludge treatment plant which shall be located in a "hub" town.

- (b) The lime dosing and mixing achieves a temperature of 78°C, which will kill off the majority of micro-organisms; which cannot survive in the alkaline conditions in any case.
- (c) The twice weekly dosing of dewatered sludge eliminates the need for a large volume sludge storage tank.
- (d) The use of lime is a low capital cost operation.

# 1.2 Long Quay Pumping Station

Problems have been experienced with the operation of the Long Quay pumping station. When the capacity of the pumps is exceeded, surcharging of the gravity sewers in the area occurs. In addition, the overflow to the adjacent estuary operates frequently with raw sewage discharging to the tide.

The problem for surcharging is difficult to avoid in times of heavy rainfall since the overflow at the pumphouse is set at 4.35 mOD in order to avoid tidal back-tro.

In order to alleviate the problems, the following are proposed:-

- 1. Replace the existing pumps and provide pumps with vortex impellers.
- 2. Provide lower overflow at pumphouse with "Tideflex" non-return valve. This type of valve operates at low heads.
- 3. Provide 750 m³ storm tank adjacent to the pumphouse. This tank is sized to store 30 minutes storage of the excess in the inlet pipe capacity over and above the pump capacity.

The proposed storm tank would be located in the green area between Wolfe Tone Street and the "Croppy Road".

Please note that sludge is currently transported to Ballineen, Co. Cork for recovery to agriculture in accordance with Waste Management (Use of Sewage Sludge in Agriculture) Regulations.

Note also that the grit classifier has been installed and it is proposed to install a new screen in 2008 to augment the capacity of the existing screen. Both items were viewed as works needing immediate attention.

# **Likely Timeframe**

It is hoped to get approval of Preliminary Report shortly from the DOEHLG and following that the likely timeframe to construction would be as follows:

- 1. **Preparation of Brief** for the Appointment of Consulting Engineer for Scheme to go forward as Design, Build, Operate (DBO) Scheme by **January 2008**
- 2. Approval of Brief by DOEHLG July 2008

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- 3. Appoint Consultant January 2009
- 4. Design period + Receipt of Tenders December 2009
- 5. Start construction January 2010
- 6. Completion of Works January 2011

# ATTACHMENT No B.10

# CAPITAL NVESTMENT PROGRAMME

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# **Cork County**

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# Water Services Investment Programme 2007 - 2009

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1	Cork North			Cork South		
	Mitchelstown Sewerage Scheme			Ballincollin Squigiane Scheme (Lingrade) (G)	s	.22 248 000
	(Nutrient Removal)	S	221,000	Cade Lours Hattour Sourceas Schome (ovel Crossbaven	500	73 542 000
				Cork Lower Harbour Severage Scheme (exc. Clossifiaven	-00)S	73,542,000
	Cork South		1	Shanhaganyi Garryvoel Baliycotion Sewerage Scheme	5	3,780,000
	Ballyvourney/ Ballymakeery Sewerage Scheme	S	3,049,000	Youghal Sewerage Scheme	5	14,420,000
	Cobh/ Midleton/ Carrigtwohill Water Supply Scheme	W	10,135,000			
	Cork Lower Harbour Sewerage Scheme			Cork West		
	(Crosshaven SS) (G)	S	4,850,000	Ballydehob Sewerage Scheme	S	683,000
	Cork Water Strategy Study (G)	W.	941,000	Bantry Water Supply Scheme	w	14,935,000
	Kinsale, Sewerage Scheme	S	20,000,000	Clonakilty Sewerage Scheme (Plant Capacity Increase)	S	3,677,000
	Midleton Sewerage Scheme (Inflitration Reduction) (G	i) 5	2,078,000	Courtmacsherry/ Timoleague Sewerage Scheme	S	2,472,000
	Calcarran to start 2007		41,274,000	Dunmanway Regional Water Supply Scheme Stage 1	w	12,669,000
	Schemes to start 2007		•			164,629,000
	Cork North			Serviced Land Initiative		
	North Cork Grouped DBO Wastewater Treatment			Ø.:		
	Plant (Buttevant, Doneraile & Kilbrin)	s	5.150.000	Corte Month A USC		
	France (denovering bonerano di finority)		0,100,000	Corr Norus	147	100.000
	Cork West			Ballyclough water Supply Scheme		139,000
	Skibbereen Sewerage Scheme	S	20,000,000	Ballynooley improvement Scheme	W/5	139,000
			25,150,000	Broghill Rathgoggin Sewerage Scheme	S	406,000
	Schemes to start 2008		OULY	Sweeng Water Supply Scheme	W	115,000
			ion or t	Churchtown Sewerage Scheme (ind. Water)	W/S	543,000
	Cork North		Dectowine	Clondulane Sewage Treatment Plant	S	417,000
	Mallow/ Ballyviniter Regional Water Supply Scheme (	H) W	N 8,652,000	Freemount Sewerage Scheme	S	150,000
	Mallow Sewerage Scheme (H)	sçc	5,408,000	Pike Road Sewerage Scheme (incl. Water)	W/S	2,080,000
		S.	, vo,	Rathcormac Sewerage Scheme (incl. Water)	W/S	555,000
	Cork South	at or	<b>n (n</b> 665	Spa Glen Sewerage Scheme	S	736,000
	Ballincollig Sewerage Scheme (Nutrient Hemoval) (G)	205	948,000	Uplands Fermoy Sewerage Scheme (incl. Water)	W/S	1,174,000
	Ballingeary Sewerage Scheme	ی د	1,296,000	Watergrasshill Water Supply Scheme (incl. Severage) (G)	W/S	4,151,000
	City Environs (CASP) Strategic Study (G)	3 9	14,729,000	······································		
	Clophroe Selverage Scheme (Llograde)	s	683 000	Cork South		
	Coachtord Water Supply Scheme	w	1.318.000	Pallingolia Source Scheme / Ranks Rd Faul and		
	Garrettstown Sewerage Scheme	s	2,153,000	Champ Designed (C)	c	1 164 000
	Inniscarra Water Treatment Plant Extension Phase 1	W	2,678,000	Storn Dranage) (G) Releasing Water Supply Scheme (induSchucendo)	wič	1,104,000
	Little Island Sewerage Scheme (G)	S	2,200,000	Deguusy, water supply scheme (and, sewerage)	VV/3	2,913,000
		•		Blamey water Supply Scheme (Ext. to Station Ho) (G)	VV ·	410,000
				Carrigtwonill Sewerage Scheme (Treatment and	•	
	Cork West			Storm Drain) (G)	5	7,632,000
	Bantry Sewerage Scheme	S	7,148,000	Castlematyr Wastewater Treatment Plant Extension	S	1,200,000
	Dunmanway Sewerage Scheme	, S	2,153,000	Crookstown Sewerage Scheme (ind. Water)	W/S	1,200,000
	Leap/ Baltimore Water Supply Scheme	Ŵ	6,365,000	Dripsey Water Supply Scheme (incl. Sewerage)	W/S	1,112,000
	Schull Water Supply Scheme	Ŵ	5,253,000	Glounthane Sewerage Scheme (G)	ŝS	1,576,000
	Calcurate to start 2000		61,137,000	Innishannon Sewerage Scheme	S	277,000
	Schemes to stan 2009			Innishannon Wastewater Treatment Plant	S	694,000
	Cork North			Kenypike Sewerage Scheme	S	832,000
	Banteer/Dromahane Regional Water Supply Scheme	w	1,576,000	Kenypike Water Supply Scheme	W	416,000
	Conna Regional Water Supply Scheme Extension	w	2,627.000	Killeagh Wastewater Treatment Plant Extension	s	1,200,000
	Cork NE Water Supply Scheme	W	4,326,000	Killeach Water Supply Scheme (includes Sewerane)	w/s	485.000
	Cork NW Regional Water Supply Scheme	Ŵ	6,046,000	Killeens Severace Scheme	s	420,000
	Millstreet Wastewater Treatment Plant (Upgrade)	Ŝ	1,628,000	Kiloaniaan Severane Scheme	s	694 000
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# **ATTACHMENT No B.12**

# FORESHORE ACT LICENCES

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Observations :	Disposal: Where the land is no longer held by the Council, state the date on and manner in which the Council ceased to hold the land and the price (if any) received for the land :	Farticulars of lettings, if any : Nowe	State the use made of the land from time to time : Originally used as Town Durp. Se	Frice, compensation or rent paid for acquisition or lease : No Unarge	Date and purpose for which the land was acquired 29.11.1978 (Nonahuly Server) or leased :	Entry number and folio number in which title $N/P$ is registered at the Land Registry : $N/P$	Location of documents of title: Coly in sale in war officially it.	Farticulars of any burdens, easements or sumilar matters affecting the lands : Sae New 3 above	Name and address of person from whom the land was purchased or acquired : $1200 \times 10^{10}$	Forreshort hunder for 94 year from 29.11.1978 the	Foreshove a bes of sea at Chonakilly by the stand in the stand of land is (See map) Area 1 = lever. Ord. 38.4 sy. P Electoral is the stand in the stand is the stand in the stand is the st	Reference Number: FORESHORE LICENCE 29 NOVEMBER 1978	CLONAKILTY URBAN COUNCIL REGISTER OF LANDS		
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