









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 SI No. 684 of 2007, Water Services Southern Division of Cork County Council, County Hall, Carrigrohane Road, Cork is applying to the Environmental Protection Agency for a Waste Water Discharge Licence in respect of Carrigtwohill Wastewater Treatment Plant serving the agglomeration of Carrigtwohill

	A S C C C C C C C C C C C C C C C C C C	National Grid Ref.
Carrigtwohill WWTP		E181177 N72228
	Townland of Carrigtohill	

Discharge	Function	Townland	Receptor	Grid Reference
Primary	Main Outfall	Tullagreen	Slatty Waters Cork Harbour	E180600 N72278
Secondary	Emergency	Tullagreen	Barryscourt Stream	E181731 N72685

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, Water Services South, Co 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 headquarters described above



CORK COUNTY COUNCIL

COMHAIRLE CONTAE CHORCAÍ

National Grid Ref.

PI ANNING

CORK COUNTY COUNCIL (NORTH)

VITICE UNDER SECTION 179 OF THE PLANNING & DEVELOPMENT ACT 2000 & PART ARTICLE 81 AND ARTICLE 83 OF THE PLANNING & DEVELOPMENT REGULATIONS 01 (AS AMENDED BY ARTICLES 17 AND 19 OF THE PLANNING & DEVELOPMENT GULATIONS 2006)

Submissions or observations with regard to the proposed development, dealing with the proper planning and development the care in which the development would be situated, may be main in writing to the and development with the proper planning and development of the writing the proper planning and development of the proper plannin

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

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 & PART 8, ARTICLE 81 AND ARTICLE 83 OF THE PLANNING & DEVELOPMENT REGULATIONS 2001 (AS AMENDED BY ARTICLES 17 AND 19 OF THE PLANNING & DEVELOPMENT REGULATION

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 Wat Services Department, Council Offices, Annabella, Mallow from 9:00 a.m. to 5:00 p.m. on each day during which said offices are open for the transaction of business (excluding Bank Holidays) for a period ending Bibl January 2008.

Submissions or observations with regard to the proposed development, dealing with the proper planning and development of the area in which the development would be situated, may be made in writing to the stand of the property of the prope

SCHEDULE	
ocation	Nature and Extent of Development
Knockavaddra,	Construction of a new 450m3 over ground precast
Bweeng,	concrete water storage reservoir, demolition of
Mallow	existing concrete reservoir, site fencing and associated
Cu.Curk.	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 & PART 8, ARTICLE 81 AND ARTICLE 83 OF THE PLANNING & DEVELOPMENT RECULATIONS 2001 (AS AMENDED BY ARTICLES 17 AND 19 OF THE PLANNING & DEVELOPMENT REPORT AND A SECTION OF THE PLANNING & DEVELOPMENT

SCHEDULE	
Location	Nature and Extent of Development
Knockduff Upper, Cullen, Mallow Co Cork.	Construction of a new 760m ³ over ground precast concrete waterstorage reservoir, demolition of existing concrete reservoir, site, fencing and 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, are holding a public exhibition for the whove project to outline the preferred route corridor for the Wester section of the scheme (Part I – NZ Sallmoloilg Bypaste to NZ Cork to Mallow Road), which has bee developed by the Cork National Roads Office in conjunction with the Scheme Consultants Fehrly Tim Giffent/Pehrly Timoney 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:

DATE	TIME	VENUE
Wednesday		Kingsley Hotel,
5th December 2007	2.00pm to 8.00pm	Victoria Cross

Cork County Council and Cork City Council are seeking the general co-operation and understanding of the



(NDP tronger)



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-Resnanerree 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 Cork 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

Plant Name Location

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge 'Authorisation's Regulations 2007 SI No. 081 of 2007, W Services Northern Division, of Cork County Council, Annabella, Mallow, Co. Cork is applying to the Environmental Protection Agency for Water Water Discharge Licence for Mallow Water Water Treatment Plant, Ballyellis, Mallow at the following locations: National Grid Ref.

Mallow WWT	P Ballye Town	llis, Mallow and of Ballyellis	E15	7318 N097988
Discharge	Function	Townland	Receptor	Locator
Primary	Main	Ballyellis	Blackwater	E157530 N98140
Secondary	Emergency	Bearforest Lower	Blackwater	Bearforest
Secondary	Emergency	Bearforest Lower	Blackwater	Summerhill
Secondary	Emergency	Spa Glen	Blackwater	Ballylough Cross
Secondary	Emergency	Ballydahin	Blackwater	Quartertown Road Railway Bridge
Secondary	Emergency	Lacknalooha	Blackwater Street	Lower Beecher
Secondary	Emergency	Castlelands	Blackwater	Davis St/Shambles Lane
Secondary	Emergency	Mallow	Blackwater	West End

It is introduct or submit the Euroromental Impact Statement associated with the recently completed graphing of the Waste West Tourness Pant to the Agency along with the Application. A copy of the application for the Tourness Pant to the Agency along with the Application and Application are subject to the Application and Application are along the Tourness Application and Application and Application are along the Application and Application and Application and Application and Application and Application are along the Tourness Application and Applicatio

The Environmental Protection Agency, PO Box 3000, Johnstown Castle Satate, Co. Wexford, Lo Call 1890 335 599 Telephone: 053-9160600 Pax: 053-9160699 Email:Info@ea.is 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 Environmental Protection Agency at its headquarters described above.

PUBLIC NOTICES CONT'D

Plant Name Location

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 Eurocomensal Protection Agency for a Waste Water Discharge Licence for Fermoy Waste Water Treatment Path, Courthouse Road, Fermoy at the following locations:

		nd 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.	Carrignagrognera	Blackwater	E181191 N098622
Secondary	Emergency	Fermoy	Blackwater	E181400 N098557
Secondary	Emergency	Fermoy	Blackwater	E181217 N098500
Secondary	Emergency	Fermoy	Blackwater	E180936 N098498

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

upgrating of the waste water Treatment Finit to the Agency along with the Application.

A copy of the application for the Waster 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 is consideration of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or nurchas the application of the Agency and the Agency of the Agency o

The Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wesford, Lo Call 1890 335 599 Telephone: 053-9160600 Fax: 053-9160699 EmailtinGebpaie and A.

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

binissions in relation to the application may be made to the Environmental Protection Agency at its admiraters described above

Cork County Council Southern Division

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

Blarney WWTP	nev Riverseew Futate Tower Co Cock P15010		verview Estate, Tower, Co. Cork 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	Coolflugh	Owennagearagh	E157548 N74040
Secondary	Emergency	Shean Lower	Mill Race to River Martin	E161602 N75245

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

A copy of the application for the Waste Water Discharge Lionner, the Environmental Impact Statement and such farther 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. Werford, Lo Call 1890 335 599 Telephone: 053-9160600 Fax: 053-9160609 Emailting/depa.je and at

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

APPLICATION TO THE ENVIRONMENTAL PROTECTION ACENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) and Indiana 2007. SI No. 584 of 2007. Was Services Southern Division of Cork County Council, Castaly India. Cartigrothan Boat, Cork is applying to the Environmental Proceeding Agency for Wastes Water Declarge Licence in respect of Carrigtwohill Wastewater Treatment Plant serving the agglosphation of Cartigrowhill. Plant Name Location National Grid Ref.

WWTP	Carrigtwohilly Co. Corl Townland of Carrigtwo	hill	
	0 0		
Discharge	Function \ Townland	Receptor .	Grid Reference
Primary	Main Outfall Juliagreen	Slatty Waters Cork Harbour	E180600 N72278
Secondary	Emergency Tullagreen	Barryscourt	E181731 N72685

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.

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The Bavirnamental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599 Telephone: 053-9160600 Fax: 053-9160699 Emailiniówben ale 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 headquarters described above.

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007 SI No. 1881 of 2007, Water Services Southern Division of Cork County Council, County Hal, Careigrobane Road, Cork is applying to the Environmental Protection Agency for a Waste Water Discharge Utence in respect of Ballincollig Wastewater Treatment Plant serving the agglomeration of Ballincollig

Ballincollig WWTP Powdermills Ballincollig, Co. Cor Townland of Ballinco		ermills collig, Co. Cork			
Discharge	Function	Townland	Recentor	Grid Reference	_

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

A copy of the application for the Waste Water Discharge Licence and 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 it particulate later receipt by the Agency, be available for inspection or Application shall, as soon as it particulate later receipt by the Agency, be available for inspection or

The Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599 Telephone: 053-9160600 Fax: 053-9160699 Envirting Menus in 2014

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 readquarters described above.

Cork County Council Southern Division

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 Southern Division of Cork County Council, County Hall, Carrigrohane Road, Cork is applying to the Environmental Protection Agency for a Waste Water Discharge Licence for the agglomeration of Cobh Rural and Cobh 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 Qutfall	Cork Harbour	Ringmeen	E 178699 N 66007
Secondary	Minor Outlall	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 Ontall	Cork Harbour	Carrignaloy	E 180439 N 66515
Secondary	Minor Outfall	Cork Harbour	Carrignatoy	E 180518 N 66526
Secondary	Minor Outfall	Cork Harbour	Carrignatoy	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		E 179466 N 66275
Secondary	smergency	Cork Harbour	Kilgarvan	E 180068 N 66442

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 explication for the Waste Water Dischage Licence, the Environmental Impact Statement and such the unformation relating to the application as may be furnished to the Agency's 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 imagencing or purchase at: spection or purchase at:
The Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate,
Co. Wexford, Lo Call 1890 335 599 Telephone: 053-9160600 Fax: 053-9160696
Email:Inf@Rena.ic and at.

Cork County Council Offices, Water Services South, County Hall, Carrigrohane Road, Co. Cork, Tolophone: 021-4276891 Fax: 021-4276321.

PUBLIC NOTICES CONT'D

Cork County Council Southern Division

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) Begulations 2007, S. I. No. 684 of 2007.
Water Services Southern Division of Cork County Council, County Hall, Carrigrobane Road, Cork is applying to the Environmental Protection Agency for a Waster Water Discharge Licence in respect of Rethoursey could be within includes the agglomeration of Midleton and trade effluent discharges from the Midleton area.

Midleton WWT	Ρ.	Ballyannan, Townland of		E187505 N72801
Discharge	Function	Townland	Receptor	Grid Reference
Primary Main	Outfall	Rathcoursey West	Ballynacorra River /Estuary	E186177 N69506
Secondary	Emergenc	y Ballynacorra West	Ballynacorra Rv	E188366 N71791
Secondary	Emergene	y Ballynacorra west	Ballynacorra Rv	E188520 N71783
Secondary	Emergency	(ED Midleton)	Ballynacorra Rv	E187973 N73127.2
Secondary	Emergency	(ED Midleton)	Ballynacorra Rv	E188045 N72513.8
Secondary	Emergency	(ED Midleton)	Ballynacorra Rv	E188268 N72058

It is intended to submit the Environmental Impact Statement associated with the provision of a 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 335 599 Telephone: 053-9160600 Fax: 053-9160606 Fax: 053-916060 Fax: 053-916

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

s in relation to the application may be made to the Environmental Protection Agency at its radescribed above.

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007, S.1 No. 684 of 2007, Water Services Southern Division of Cork County Council, County Hall, Carrigroham Road, Cork is applying to the Environmental Protection Agency for a Water Water Discharge Lience in respect of Rugasskidty outfall which includes the agglomeration of Carrigaline and Crosshaven and trade efficient discharges from the Rugasskidty area.

Discharge	Function	Townland	Receptor	Grid Refer	ence
Primary	Main Outfall	Ringsskiddy	Cork Harbour	E181358	N062521
Secondary	Emergency	Crosshaven	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	E175770	N064679

It is intended to submit the Environmental Impact Statement associated with the proposed prov 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 such further information relating to the application as may be furnished to the Agency in the course of the Agency is consideration of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase a furnished for inspection or purchase a furnished.

The Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335599 Telephone: 053-9160600 Fax: 053-9160609 Email:info@ena.ie

Cork County Council Offices, Water Services South, County Hall, Carrigrobane Road, Cork, Telephone: 021-4276891 Fax: 021-4276321.

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

Cork County Council Western Division

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

Location

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

Clonakilty W	WTP	Youghals, Townland	Clonakilty of Youghals	E139030 N041311
Discharge	Function	Townland	Receptor	Grid Reference
Discharge Primary	Main	Youghais	Clonakilty	E139030 N041311

Discharge	Function	Townland	Receptor	Grid Reference
Primary	Main	Youghais	Clonakilty harbour	E139030 N041311
Secondary	Emergency	Scartagh	Clonakilty harbour	E138859 N041382
Secondary	Emergency	Youghuls	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 Lience, the Environmental Impact Statement and such farther 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's available for inspection or purchase at:

The Environmental Protection Agency, PO Box 3000, Johnstown Cautle Entate, Co. Wexford, Lo Call 1809 335599 Telephone: US-3-016060 Fac: US-3-0160699 Email: info@epa.ie

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

ea. U43-33147.

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

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

Cork County Council (Western Division) seeks tenders from competent Consulting Engineering Firms for consulting services in relation to Final Capping and Gas Management at Derryconnell Landfill, for receipt of tendors is 4.00 pm Friday 18th January 2008.

CCC Northern Division invites Tenders from competent Civil Engineering Contractors for the construction of Carriganleigh Stage 1-Upgrading Works (Laying of water mains). Closing date for receipt of tenders is 4.00 pm Friday 11th Junuary 2008.

er Services Investment Programme Project Office invites tenders from suitably qua tractors for the Bautry Water Supply Interim Scheme – Civil Works. sing date for receipt of tenders is 4:00 pm Friday 11th January 2008.

Cork County Water Conservation Project invites Expressions of Interest from suitably qualified and experienced Contractors for the supply or supply, installation and countinssioning of approximately 350 (extremence) with low micers and approximately 400 featurely substains across Cork County. Closing date for receipt of tenders is 4:00 pm Priday 11th January 2008.

The County Architecta Department, Floor 9, County Hall, Cork requires the services of a outlably qualified architect led design team for the development of a new corporate head quarters for the Council Fee Pepartment at the Link Road, Ballincollag, Co. Cork.
Cosing date and time for the return of Pre-Qualification Questionnaire is 4.00 p.m. on Friday d, Ballincollig, Co. Cork. return of Pro-Qualification Questionnuire is 4.00 p.m. on Friday

www.corkcoco.ie

Cork County

Water Services Investment Programme 2007 - 2009

THE THE SECURITY OF THE SECURI	et et e		AACE 解 關 特 特 特 開 開		
Schemes at Construction	W/S	Est. Cost		W/S	Est Cost
Cork North	13		Cork South		
Mitchelstown Sewerage Scheme				S	22,248,000
(Nutrient Removal)	s	221,000	Ballincollig Sewerage Scheme (Upgrade) (G) Cork Lower Harbour Sewerage Scheme (excl. Crosshave	CC)C	S SUBBRICAL DE
			Cork Lower Harbour Sewerage Scheme (excl. Crossnave	en 55)5	73,542,000
Cork South			Shannagarry/ Garryvoe/, Ballycotton Sewerage Scheme	S	3,780,000
Ballyvourney/Ballymakeery Sewerage Scheme	Š	3.049.000	Youghal Sewerage Scheme	S	14,420,000
	l Will	10,135,000			
Cobh/ Midleton/ Carrigtwohill Water Supply Scheme		10,135,000			
Cork Lower Harbour Sewerage Scheme			Cork West		1
(Crosshaven SS) (G)		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 I	20,000,000	Clonakity Sewerage Scheme (Plant Capacity Increase)	S	3,677,000
Midleton Sewerage Scheme (Infiltration Reduction)	G) S	2,078,000	. I II II II II II TA DESIGNA DEPERCENT DESIGNA (C. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	S	2,472,000
		41,274,000	Courtmacsherry/Timoleague Sewerage Scheme	1.1.1.1	
Schemes to start 2007			Dunmanway Regional Water Supply Scheme Stage 1	W	12,669,000
					164,629,000
Cork North			Serviced Land Initiative	1.1	1 N
North Cork Grouped DBO Wastewater Treatment				11 批准	
Plant (Buttevant, Doneraile & Kilbrin)	s	5,150,000	Cate North	**	
Plant (Dottevant, Dollerale & Klibini)		10,.00,000	Cork North		
			Ballyclough Water Supply Scheme	W	139,000
Cork West		00 000 000	Ballyhooley improvement Scheme	W/S	139,000
Skibbereen Sewerage Scheme	S	20,000,000	Broghill-Rathgoggin Sewerage Scheme	S	406,000
		25,150,000	Bweeng Water Supply Scheme	W	115,000
Schemes to start 2008		20		W/S	543,000
		diorner	Churchtown Sewerage Scheme (incl. Water)		
Cork North		20° 02'	Clondulane Sewage Treatment Plant	S	417,000
Mallow/ Ballyviniter Regional Water Supply Scheme	(H) W	8 652,000	Freemount Sewerage Scheme	S	150,000
Mallow Sewerage Scheme (H)	S	5,408,000	Pike Road Sewerage Scheme (incl. Water)	w/s	2,080,000
		(A)	Rathcormac Sewerage Scheme (incl. Water)	w/s	555,000
Cork South	1 × 0			_ 1 11	
Ballincollig Sewerage Scheme (Nutrient Removal) (3) S	948,000	Spa Glen Sewerage Scheme	S	736,000
Ballingeary Sewerage Scheme	C'S	1,296,000	Uplands Fermoy Sewerage Scheme (incl. Water)	W/S	1,174,000
Bandon Sewerage Scheme Stage 2	S	14,729,000	Watergrasshill Water Supply Scheme (incl. Sewerage) (G	i) W/S	4,151,000
City Environs (CASP) Strategic Study (G)	9	153,000		· t	
	S	683,000	Cork South		***
Cloghroe Sewerage Scheme (Upgrade)	化 提出选集 矿	1,318,000	三年, 一日生,到佛斯如圆洲和花生 二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十		
Coachford Water Supply Scheme	W s	11 1 11 1	Ballincollig Sewerage Scheme (Barry's Rd Foul and		
Garrettstown Sewerage Scheme		2,153,000 2,678,000	Storm Drainage) (G)	S	1,164,000
Inniscarra Water Treatment Plant Extension Phase	1 1 6	14 A F 1 A F	Belgooley, Water Supply Scheme (incl. Sewerage)	W/S	2,913,000
Little Island Sewerage Scheme (G)	S	2,200,000	Blamey Water Supply Scheme (Ext. to Station Rd) (G)	w 🗄	416,000
	$i \neq i$		Camgtwohill Sewerage Scheme (Treatment and	11	Cir.
		!! !!	Storm Drain) (G)	s	7,632,000
Cork West				- 11	
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 (incl. Water)	W/S	1,200,000
Leap/ Baltimore Water Supply Scheme	W	6,365,000	Dripsey Water Supply Scheme (incl. Sewerage)	W/S	1,112,000
Schull Water Supply Scheme	W	5,253,000	Glounthane Sewerage Scheme (G)	s	1,576,000
		61,137,000	Innishannon Sewerage Scheme	s	277,000
Schemes to start 2009	1111	111.	1.15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 11	
		1 11	Innishannon Wastewater Treatment Plant	S	694,000
Cork North		1:11	Kerrypike Sewerage Scheme	S	832,000
Banteer/Dromahane Regional Water Supply Schem	e W	1,576,000	Kerrypike Water Supply Scheme	w	416,000
Conna Regional Water Supply Scheme Extension		2,627,000	Killeagh Wastewater Treatment Plant Extension	s	1,200,000
	4 4 1 1 5	0.1111	Killeagh Water Supply Scheme (includes Sewerage)		*
Cork NE Water Supply Scheme	W	4,326,000	- 「	W/S	485,000
Cork NW Regional Water Supply Scheme	W	6,046,000	Killeens Sewerage Scheme	S	420,000
Millstreet Wastewater Treatment Plant (Upgrade)	S	1,628,000	Kilnagleary Sewerage Scheme	S	694,000
			Midleton Wastewater Treatment Plant Extension	s	4,050,000
	1114				1

Cork County contd.

Water Services Investment Programme 2007 - 2009

w/s	Est. Cost	w/s	Est. Cost
Mogeely, Castlemarty & Ladysbridge Water Supply Scheme W	2,566,000	Cork South	1 4 H
North Cobh Sewerage Scheme (G)	3,193,000	Carrigtwohill Sewerage Scheme (G)	20,000,000
Riverstick Water Supply Scheme (incl. Sewerage), W/S	525,000	Cork Sludge Management (G)	.14,420,000
Rochestown Water Supply Scheme W	2,700,000	Cork Water Supply Scheme (Storage - Mount Emia	
Saleen Sewerage Scheme S	1,051,000	Ballincollig & (Chetwind) (G)	1 8;500,000 I
Youghal Water Supply Scheme W	2,300,000	Inniscarra Water Treatment(Plant (Sludge Treatment)(G)W	5,356,000
		Macroom Sewerage Scheme	5,150,000
Cork West		Minane Bridge Water Supply Scheme	1,421,000
Castletownshend Sewerage Scheme S	1,576,000		
	50,797,000	Cork West	
Rural Towns & Villages Initiative		Bantry Regional Water Supply Scheme (Distribution)	9,455,000
		Cape Clear Water Supply Scheme	1,679,000
Cork North		Castletownbere Hegional Water Supply Scheme	8,405,000
Buttevant Sewerage Scheme (Collection System) S	2,446,000	Glengarriff Sewerage Scheme	2,500,000
Doneraile Sewerage Scheme (Collection System) S	1,738,000	Roscarberry/Owenahincha Sewerage Scheme S	1,576,000
		Skibbereen Regional Water Supply Scheme Stage 4 W	7,880,000
Cork South			95,646,000
Innishannon (Ballinadee/ Ballinspittle/ Garrettstown)		2080	
Water Supply Scheme W	6,726,000	Water Conservation Allocation	12,206,000
	Diff		
Cork West	dion rei	Asset Management Study	300,000
Ballylicky Sewerage Scheme S	2153,000		
Baltimore Sewerage Scheme S	3 62,000	South Western River Basin District (WFD) Project ¹	9,400,000
Castletownbere Sewerage Scheme S	5,202,000		
Soni ii Sawarana Sonama	3,523,000		
Schemes to Advance through Planning	24,950,000	Programme Total 485,	489,000
Schemes to Advance through Planning			
Cork North			
Mitchelstown North Galtees Water Supply Scheme W	3,152,000		
Mitchelstown Sewerage Scheme S	3,000,000		
Newmarket Sewerage Scheme S	3,152,000		

¹ This project is being led by Cork County Council on behalf of other authorities in the River Basin District

⁽H) Refers to a Hub as designated in the National Spatial Strategy

⁽G) Refers to a Gateway as designated in the National Spatial Strategy

Kevin Sugrue, Senior Engineer, Water Services

Re: Licensing of Discharges

Ballincollig- Donald Cronin is preparing a response in respect of Ballincollig

Blarney- The Council has recently completed an upgrade of the wastewater treatment plant at Blarney to 13,000 p.e. and has no immediate proposals to increase that capacity. The plant at Blarney has two independent secondary treatment processes with the wastewater load being split approximately evenly between them. One stream has biological nutrient removal and the other has chemical nutrient removal. There is concern in relation to the nutrient levels in the river catchments north of Cork City and the Council has obtained approval to carry out a drainage study, the City Environs (CASP) Drainage Study which is being funded under the Water Services Investment Programme 2007-2009. This study will consider the drainage options available for the catchment concerned having regard to existing and planned developments in the area. The Council is currently preparing a brief for the appointment of a consultant and expects to advertise the appointment in early January 2008 and to have the study completed in approx six months thereafter.

Crosshaven- wastewater from Crosshaven is collected and discharged to the Carrigaline network and ultimately discharges to Cork Harbour via the 'IDA' sewer at the Dognose Bank. The discharge is currently untreated but will ultimately be served by the Lower Harbour SS, the treatment plant for which will be located at Carrigaline East and the effluent from this plant will discharge through the 'IDA' outfall to the harbour. The EIS for the wastewater treatment plant is being prepared and the Council hopes to lodge it with ABP by end of 2007. Nutrient removal is not being proposed as the receiving waters are not designated sensitive. The PR for the Scheme will be lodged with the DEHLG shortly after the EIS is sent to ABP but approval to the PR will not issue until after the EIS is approved, say mid 2008. The Lower Harbour SS is being funded under the Water Services Investment Programme 2007-2009 and the scheme is expected to be fully operational before the end of 2012.

Cobh – this also forms part of the proposed Lower Harbour SS and a significant upgrading of the Cobh sewer network is envisaged with the wastewater being pumped across the harbour to the proposed WWTP at Carrigaline East . The current estimated design capacity required is 80,000 p.e.

Carrigaline- this wastewater is discharged (see Crosshaven) via the 'IDA' sewer and will ultimately form part of the Lower Harbour SS

Ringaskiddy – as for Carrigaline

Carrigtwohill –EIS under preparation and expected to be submitted to ABP March '08. The anticipated first phase will be to increase treatment capacity to 45000 p.e. from the current 8500 p.e. The works are to be funded under the Serviced land Initiative . Nutrient removal will be included in the EIS and the PR as the Lee Estuary/Lough Mahon Area is currently designated a sensitive water.

The above information should be read in conjunction with earlier correspondence on the same matter and in particular you should cross-reference with response received from Duane O'Brien in relation to Carrigtwohill.

Regards,

R O'Farrell,
Senior Engineer,
WSIP Projects Office
4th December 2007

Kevin Sugrue

I have examined B.10 Capital Investment Programme and I have broken down the request to its constituent parts as shown below and have addressed them in the table to the best of my ability. You should attach a copy of the Assessment of Needs and the published WSIP.

Regards,

ROF

10th December 2007

B.10 Capital Investment Programme

Provide details of

1/any proposed infrastructural development for the waste wate water which has been prioritised in the water services authority "Assessment of Needs" study.

2/ State whether this development work has been allocated funding under local or national **Water Services Investment Plans.** If so, provide details

2a/ on the extent and type of work to be undertaken,

2b/ the likely timeframes for this work to be completed and

2c/ the level of funding being provided.

Table B10.

						_		 1															₁					
1/ A 2/ V 200	Atta				•	6		5				,	4						,	اٍ			2			_		
1/ Assessment of Needs 2/ Water Services Inves 2007-2009	Attachment included		-	,	Carrigung	Carriotwohill		Ringaskiddy		4.		d	Carrigaline	-						Cohh			Crosshaven			Blarnev	,	AGGLOMERATION
s Investme	ded					Yes		Yes					Yes							Yes			Yes			Z _o	OF NEEDS	ASSESSMENT
Water Services Investment programme 07-2009						Yes		Yes					Yes							Yes	WSIP 2005-2007.	Crosshaven	Yes- works at		-	No	INVESTMENT PLANS.	WATER SERVICES
Yes Yes	Yes	:	sensitive area.	EIS and PR as the	secondary treatmer	First phase proposa	East Ringaskiddy	Forms part of the p	'IDA' outfall.	proposed new 80,0	via the 'IDA' outfat	Carrigaline, which	Forms part of the p	SCHSILIVE alega.	Sensitive area	Ringaskiddy and w	secondary WWTP to be constructed at Carrigaline East,	wasterwater across Cork Harbour to a proposed	major upgrading of	Forms part of the pr	the Dognose Bank.	Crosshaven collecti	Forms an element of the proposed Lower Harbour SS.	additional upgrading is proposed at this time.	p.e. secondary treatment and includes nutrient	Blarney (Blarney/To		EXTENT AND TYPE OF WORK
	No			discharge area is cu	secondary treatment. Nutrient removal is being	First phase proposal is to increase capacity to 4.	c pumped to me ne	Forms part of the proposed Lower Harbour SS.	'IDA' outfall.	proposed new 80,000 p.e. secondary WWIP to	via the 'IDA' outfall at the Dognose Bank. It wil	now includes Cross	Forms part of the proposed Lower Harbour SS.		Hot being brobosec	hich will discharge	to be constructed at	Cork Harbour to a p	the Cobh collection	roposed Lower Harl	Oliwalds to tile 122	on systems connect	of the proposed Lov	g is proposed at this	ment and includes	Blarney (Blarney/Tower) has recently been upgr	٠.	F WORK
	8			EIS and PR as the discharge area is currently designated a	is being proposed in the	acitydo 45,000 p.e.	eri a Cui Buille	bour SS. Wastewater from www.www.ateration	cli will discilarge to the	WIP to be constructed at	ink. It will be served by the		bour SS. The effluent from		Nullienteemoval is not being proposed as discharge is not to a	Ringaskiddy and which will discharge to the IDA outlail.	Carrigaline East,	proposed new 80,000 p.e.	major upgrading of the Cobh collection system and transfer of the	Forms part of the proposed Lower Harbour SS that includes	the Dognose Bank.	character of the state of the s	ver Harbour SS.		nutrient removal. No	seen upgraded to 13,000		
						EIS to ABP March '08		As for Cobh					As for Cobh	March 2012	March 2010, completion	Construction to commence	Lower Harbour SS expected	Pleanala Jan .08. PR for	submitted to An Bored	EIS for WWTP to be		collinasioned.	Element is completed and			N/A		LIKELY TIMEFRAMES
		funding	and 60% local	Scheme i.e. 40%	funded as an SLI	€20m - To be		As for Cobn					As for Cobh	a desperador de la constanta d			20% local funding	DEHLG grant and	Estimated 80%	€76m	, 20% local funding	80% DEHLG grant	d SIII			N/A		LEVEL OF FUNDING

SECTION C: INFRASTRUCTURE & OPERATION

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

C.1 Operational Information Requirements

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

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

Attachment included	Ses diot.	Yes	No
	2 Purpo dirico	X	

C.2 Outfall Design and Construction

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

Main outfall is 1200mm diameter concrete pipe,

Secondary outfall SW2 is 1050mm diameter concrete pipe

Secondary outfall SW3 is 900mm diameter concrete pipe (not yet commissioned)

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

Attachment included C1-01carrig	Yes	No
CI—Vicarriy	X	

DISCHARGES TO THE AQUATIC ENVIRONMENT SECTION D:

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

Give particulars of the source, location, nature, composition, quantity, level and rate of discharges arising from the The applicant should address in particular all discharge points where the substances outlined in Tables D.1(i), (b) & (c) and agglomeration and, where relevant, the period or periods during which such emissions are made or are to be made. D.1(ii), (b) & (c) of Annex 1 are emitted.

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

Discharges to Surface Waters

D.1 Discnarges to Surrace waters Details of all discharges of waste water from the agglomeration should be supplied. Tables D.1(i)(a), (b) & (c), should be completed for the primary discharge point from the agglomeration and hables D.1(ii)(a), (b) & (c) of Annex 1 should be completed for each secondary Table D.1(iii)(a) should be completed for each storm water overflow. Individual Tables must be completed for each discharge point.

Supporting information should form Attachment D.1

Yes Attachment included

Tabular Data on Discharge Points

Applicants should submit the following information for each discharge point;

other

NORTHING 6N-digit GPS Irish National	Reference
EASTING 6E-digit GPS Irish National	
Protected Area Type (e.g., SAC, candidate SAC, NHA.	SPA etc.)
RWB_NAME Receiving Water Body Name (e.g.,	River Suir)
RWB_TYPE Receiving Water Body Type (e.g.,	Kiver, Lake, Groundwater, Transitional, Coastal)
Local Authority Name (e.g.,	
PT_TYPE Point Type (e.g., Primary/	Storm Water Overflow)
PT_CD Point Code Provide	

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

Carrigtwohill Section D- Standard Forms

Carrigtwohill Application Section D.doc

TABLE D.1(i)(a): EMISSIONS TO SURFACE/GROUND WATERS (Primary Discharge Point)

Discharge Point Code:_

SW01 Carrigtwohill

Source of Emission:	Treated wastewater from Carrigtwohill wastewater treatment plant+ surface water and storm water overflow
Location:	Townland of Tullagreen
Grid Ref. (12 digit, 6E, 6N):	E180600 N72278
Name of receiving waters:	Slatty Waters Cork Harbour
River Basin District:	South Western River Basin District
Designation of receiving waters:	NHA, SAC,SPA HAMADA
Flow rate in receiving waters:	m ³ .sec ¹ Dry Weather Flow
Harbour area not available	

etails:	
ion D	
Emiss	

Emission Details:				
(i) Volume emitted				
Normal/day	1804.6m³	Maximum/day		2586m³
Maximum rate/hour	108m³	Period of emission (avg)	24 Hours continous min/hr hr/day	day/yr
Dry Weather Flow	m³/sec			,

Carrigtwohill Section D- Standard Forms

Characteristics of the emission (Primary Discharge Point) TABLE D.1(i)(b): EMISSIONS TO SURFACE/GROUND WATERS -

SW01 Carrigtwohill Discharge Point Code:_

			•
		As discharged	ped
		Max. daily average	
-	Hd	7.6	
7	Temperature	AN	
ო	Electrical Conductivity (@25°C)	840	
		Max. daily average (mg/l)	ka/dav
4	Suspended Solids	49.2	App / Bu
5	Ammonia (as N)	281	32.0
9	Biochemical Oxygen Demand	46.3	92.6
7	Chemical Oxygen Demand	% & 214	386.7
œ	Total Nitrogen (as N)	8, 437 6	2.000
0	Nitrite (as N)	V. 10.	8.79
101	Nitrato (ac N)		NA
	דיין אונומנב (מא וא)	24,60	3.89
7	lotal Phosphorus (as P)	3.2% 200	5.95
12	Orthophosphate (as P)Note 1	1.99 11.99	3 50
13	Sulphate (SO ₄)	52.4	94.6
14	Phenols (sum) Note 2 (uq/1)	<0.10	0.46

Note 1: For waste water samples this monitoring should be undertaken on a sample filtered on 0.45km filter paper.

Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

TABLE D.1(i)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS

Primary Discharge Point -

Characteristics of the emission

Discharge Point Code:_

SW01 Carrigtwohill

Number	Substance		As discharged	-
		Max. daily average (uq/l)	kg/day	kg/year
-	Atrazine	<0.01	<0.0000	<0.0>
2	Dichloromethane	<1	<0.0018	<0.6570
က	Simazine	<0.01	<0.0000	<0.0
4	Toluene	<0.01 <0.01	<0.0000	<0.0
IJ	Tributyltin	<0.02	<0.0000	<0.0
9	Xylenes	<0.01	×0.0000	<0.0
7	Arsenic	9	0.01083	3.95
8	Chromium	320	0.05775	21.08
6	Copper	41.8	0.07535	27.50
10	Cyanide	<5	<0.0090%	3.29
11	Fluoride	250	0.4512	164.7
12	Lead	23.5	0.0754	27.5
13	Nickel	28	0.0505	18.4
14	Zinc	54.25	0.0979	35.73
15	Boron	20	<0.0361	<13.18
16	Cadmium	20	<0.0361	<13.18
17	Mercury	1.1	0.0019	0,6935
18	Selenium	2	0.0036	1,314
19	Barium	38	0.0686	25.04

Carrigtwohill Section D- Standard Forms

 TABLE D.1(ii)(a):
 EMISSIONS TO SURFACE/GROUND WATERS

 (Secondary Discharge Point)
 (1 table per discharge point)

SW02 Carrigtwohill Discharge Point Code:

Source of Emission:		Emergency Outfall Carrigtwohill	wohill
Location:		Townland of Tullagreen	
Grid Ref. (12 digit, 6E, 6N):	, 6N):	E181731 N72685	
Name of receiving waters:	ers:	Barryscourt Stream	
River Basin District:		South Western River Basir) District
Designation of receiving waters:		SPA,SAC,NHA WAR	
Flow rate in receiving waters: Not available		ingetion di	Not available m³.sec ⁻¹ Dry Weather Flow Not available m³ sec ⁻¹ 95%ile flow
Emission Details:			
(i) Volume emitted Not available	Not available		and and
Normal/day	Not available m³	Maximum/day	Not available m ³
Maximum rate/hour	Not available m³	Period of emission (avg)	Not availablemin/hrhr/dayday/yr
Dry Weather Flow	Not available m³/sec		

Characteristics of the emission (1 table per discharge point) (Secondary Discharge Point) TABLE D.1(ii)(b): EMISSIONS TO SURFACE/GROUND WATERS

Discharge Point Code: SW02 Carrigtwohill

1 pH 2 Temperature 3 Electrical Conductivity (@25°C) NA 4 Suspended Solids 5 Ammonia (as N) 6 Biochemical Oxygen Demand 7 Chemical Oxygen Demand 8 Total Nitrogen (as N) 10 Nitrate (as N) 11 Total Phosphorus (as P) Note 1 12 Orthophosphate (as P) 13 Sulphate (SO ₄) 14 Phenols (sum) Note 2 (Luf/)) NA MAX. daily average NA MAX. daily average (mg/l) NA MAX. daily average (mg/l) NA 10 NA 11 NA 12 NA 13 Sulphate (SO ₄) NA 14 Phenols (sum) Note 2 (Luf/l) NA 15 NA 16 NA 17 NA 18 NA 18 NA 19 NA 10 NA 10 NA 11 NA 12 NA 13 Sulphate (SO ₄) NA 14 Phenols (sum) Note 2 (Luf/l) NA	Max. daily average NA Max. daily average (mg/l) NA NA NA NA NA NA NA NA NA N
--	--

TABLE D.1(ii)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS

Characteristics of the emission (1 table per discharge point) Secondary Discharge Point -

Discharge Point Code: SW02 (

SW02 Carrigtwohill

Number	Substance		As discharged	· ·
		Max. daily average (uq/I)	kg/day	kg/year
7	Atrazine	NA	NA	AN
2	Dichloromethane	NA	NA	NA
က	Simazine		NA	NA
4	Toluene	Olise	NA	NA
Ŋ	Tributyltin	A of	NA	AN
9	Xylenes		A/A	NA
7	Arsenic		MAC	AN
8	Chromium		NAMA	NA
6	Copper		NA Nacina	AN
10	Cyanide	NA		AN
11	Fluoride	NA	NA N	AN
12	Lead	NA		AN
13	Nickel	NA		NA
14	Zinc	NA		NA
15	Boron	NA	NA	NA
16	Cadmium	NA	NA	NA
17	Mercury	NA	NA	NA
18	Selenium	NA	NA	NA
19	Barium	NA V	NA	NA

(1 table per discharge point) TABLE D.1(ii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Secondary Discharge Point) (1 tabl

SW03 Carrigtwohill Discharge Point Code:

Source of Emission:		Barryscourt pumphou	pumphouse in Carrigtwohill Note -not due to be operational until 1212 2000	cooc stel litari Jenoita
Location:		Townland of Tullagreen	u	cional ditti late 2008
Grid Ref. (12 digit, 6E, 6N):	:, 6N):	E181288 N72283		
Name of receiving waters:	ters:	Barryscourt Stream		
River Basin District:		South Western River Basin District	asin District	
Designation of receiving waters:	ng waters:	SPA,SAC,NHA		
Flow rate in receiving waters: Not available	waters:	o inspection	Not	m³.sec ⁻¹ Dry Weather Flow
Emission Details:			Not available Not available	m³.sec ⁻¹ 95%ile flow
(i) Volume emitted Not available	1 Not available		AN ARCH	
Normal/day	Not available m³	Maximum/day	of the life.	Not available m ³
Maximum rate/hour	Not available m³	Period of emission (avg)	Not availablemin/hr	hr/day day/yr
Dry Weather Flow	Not available m³/sec			

- Characteristics of the emission (1 table per discharge point) TABLE D.1(ii)(b): EMISSIONS TO SURFACE/GROUND WATERS - Char (Secondary Discharge Point)

SW03 Carrigtwohill Discharge Point Code:_

1 pH 2 Temperature 3 Electrical Conductivity (@25°C) NA 4 Suspended Solids 5 Ammonia (as N) 6 Biochemical Oxygen Demand 7 Chemical Oxygen Demand 8 Total Nitrogen (as N) 10 Nitrate (as N) 11 Total Phosphorus (as P) Note 1 12 Orthophosphate (SO ₄) 13 Sulphate (SO ₄) 14 Phenois (sum) Note 2 (ug/I) 15 Orthophosphate (SO ₄) 16 Orthophosphate (SO ₄) 17 Sulphate (SO ₄) 18 Sulphate (SO ₄) 19 Note 2: USEPA Method 604, AwwA Standard Method 6240, or equivalent.		Substance	As discharged	rged
			No.	
	-		riax, ually average	
	4	П		
	7	Temperature	NA	
	m	Electrical Conductivity (@25°C)	NA	
			Max. daily average (mg/1)	
Ammonia (as N) Biochemical Oxygen Demand Chemical Oxygen Demand Chemical Oxygen Demand Total Nitrogen (as N) Nitrite (as N) Notal Phosphorus (as P) Notal Phosphor	4	Suspended Solids	+	
 Biochemical Oxygen Demand Chemical Oxygen Demand Chemical Oxygen Demand S Total Nitrogen (as N) IO Nitrite (as N) II Total Phosphorus (as P) Note 1 III NA ABARTAR NA III NA ABART	D	Ammonia (as N)		A.
7Chemical Oxygen Demand 8NANAAgain (A)NA9Nitrite (as N)NAAgain (A)NA10Nitrate (as N)NAAgain (A)NA11Total Phosphorus (as P) 12Note 1NAAgain (A)NA13Sulphate (SO4)NAAgain (A)NA14Phenols (sum) 13Note 2 (ug/l)NAAgain (A)NA14Phenols (sum) 14Note 2 (ug/l)NAAgain (A)NA15NaAgain (A)NAAgain (A)NA15NaNaAgain (A)NA16NaAgain (A)NAAgain (A)NA15NaNaAgain (A)NAAgain (A)16NaNaAgain (A)NAAgain (A)16NaNaAgain (A)NAAgain (A)NA16NaNaAgain (A)NaAgain (A)Na16NaNaAgain (A)NaAgain (A)Na17NaNaAgain (A)NaAgain (A)Na18NaNaAgain (A)NaAgain (A)Na19NaNaAgain (A)NaAgain (A)Na19NaNaAgain (A)NaAgain (A)Na19NaNaAgain (A)NaAgain (A)Na </td <td>9</td> <td>Biochemical Oxygen Demand</td> <td></td> <td>IA.</td>	9	Biochemical Oxygen Demand		IA.
 8 Total Nitrogen (as N) 10 Nitrite (as N) 11 Total Phosphorus (as P) 12 Orthophosphate (as P) 13 Sulphate (SO₄) 14 Phenols (sum) Note 2 (ug/l) 15 NA 16 NA 17 NA 18 Sulphate (SO₄) 19 Phenols (sum) Note 2 (ug/l) 10 NA 11 NA 12 Orthophosphate (as P) 13 Sulphate (SO₄) 14 Phenols (sum) Note 2 (ug/l) 15 NA 16 Phenols (sum) Note 2 (ug/l) 17 NA 18 NA 19 Phenols (sum) Note 2 (ug/l) 10 NA 11 NA 12 Orthophosphate (as P) 13 NA 14 Phenols (sum) Note 2 (ug/l) 15 NA 16 Phenols (sum) Note 2 (ug/l) 17 NA 18 NA 19 NA 19 NA 10 NA 10 NA 10 NA 11 NA 12 NA 13 NA 14 Phenols (sum) Note 2 (ug/l) 15 NA 16 NA 17 NA 18 NA 18 NA 19 NA 19 NA 10 NA 10 NA 10 NA 11 NA 12 NA 13 NA 14 Phenols (sum) Note 2 (ug/l) 15 NA 16 NA 17 NA 18 NA 19 NA 19 NA 10 NA 10 NA 10 NA 11 NA 12 NA 13 NA 14 NA 15 NA 16 NA 17 NA 18 NA 18 NA 19 NA 19 NA 19 NA 10 NA <	7	Chemical Oxygen Demand	Seni	IA.
10 Nitrate (as N) 11 Total Phosphorus (as P) Note 1 12 Orthophosphate (as P) 13 Sulphate (SO ₄) 14 Phenols (sum) Note 2 (ug/l) 15 Orthophosphate (as P) 16 Orthophosphate (as P) 17 Orthophosphate (as P) 18 Sulphate (SO ₄) 19 NA 19 NA 10 NA 10 NA 11 NA 11 NA 12 NA 13 Sulphate (SO ₄) 14 Phenols (sum) Note 2 (ug/l) 15 NA 16 NA 17 NA 18	8	Total Nitrogen (as N)	\$0°	IA .
 10 Nitrate (as N) 11 Total Phosphorus (as P) Note 1 12 Orthophosphate (as P) 13 Sulphate (SO₄) 14 Phenols (sum) Note 2 (ug/l) 15 NA 16 NA 17 NA 18 Sulphate (SO₄) 19 NA 10 NA 10 NA 11 NA 12 NA 13 Sulphate (SO₄) 14 Phenols (sum) Note 2 (ug/l) 15 NA 16 NA 17 NA 18 NA 19 NA 10 NA 10 NA 11 NA 12 NA 13 NA 14 NA 15 NA 16 NA 17 NA 18 NA 19 NA 10 NA 10 NA 11 NA 12 NA 13 NA 14 NA 15 NA 16 NA 17 NA 17 NA 18 NA 18 NA 19 NA 19 NA 10 NA	6	Nitrite (as N)	i to still the s	lA.
11 Total Phosphorus (as P) Note 1 NA Rahin NA 12 Orthophosphate (as P) Note 2 NA Rahin NA 13 Sulphate (SO ₄) NA Rahin Note 2 (ug/l) NA Rahin NA Rahin Rahind Stould be undertaken on a sample filtered on 0.45 _{WM} filter paper.	10	Nitrate (as N)	60.00	A
12 Orthophosphate (as P) 13 Sulphate (SO ₄) 14 Phenols (Sum) Note 2 (ug/I) 15 In waste water samples this monitoring should be undertaken on a sample filtered on 0.45 mm filter paper.	11	Total Phosphorus (as P) Note 1	OFFICE	A
13 Sulphate (SO ₄) 14 Phenols (sum) Note 2 (ug/l) NA CASTAN Method 604, AWWA Standard Method 6240, or equivalent.	12	Orthophosphate (as P)	वार्ष	A
the Phenols (sum) Note 2 (ug/l) NA	13	Sulphate (SO,)	N S S S S S S S S S S S S S S S S S S S	А
ote 1: For waste water samples this monitoring should be undertaken on a sample filtered on 0.45mm filter paper.	14	Phenols (sum) Note 2 (119/1)	NA NA	A
ote 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.	te 1: For was	te water samples this monitoring should be und	N AN	A
	te 2: USEPA	Method 604, AWWA Standard Method 6240, or	rei takeil oli a sample filtered on 0.45mm filter p equivalent.	aper.
			. ·	

TABLE D.1(ii)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS

Characteristics of the emission (1 table per discharge point) Secondary Discharge Point -

Discharge Point Code: SM

SW03 Carrigtwohill

Number	Substance		As discharged	٥
		Max. daily average (µq/I)	kg/day	kg/year
1	Atrazine	NA	NA	NA
2	Dichloromethane	NA	NA	NA
m	Simazine		NA	NA
4	Toluene	onse	NA	NA
5	Tributyltin	8	NA	NA
9	Xylenes	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	MA	NA
7	Arsenic		W. A.C.	NA
œ	Chromium		NAM OF THE PROPERTY OF THE PRO	NA
6	Copper		NA Marie AN	NA
10	Cyanide		NA	AN
11	Fluoride		NA	NA
12	Lead		NA	AN
13	Nickel		NA	
14	Zinc		NA	NA
15	Boron		NA	NA
16	Cadmium	NA	NA	NA
17	Mercury		NA	NA
18	Selenium	NA	NA	NA
19	Barium	NA	NA	NA

TABLE D.1(iii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Storm Water Overflow) (1 table per discharge point)

harge Point Code:	
ye Point Cod	J
ye Point (ö
je Poin≀	Cod
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Disc	Disch

SW01Carrigtwohill

Source of Emission:		Storm Water Overflow	Overflow Carrigtwohill		
Location:		Townland of Tullagreen			
Grid Ref. (12 digit, 6E, 6N):	E, 6N):	E180600 N72278			
Name of receiving waters:	ters:	Barryscourt Stream			
River Basin District:		South Western River B	asin District		
Designation of receiving waters:		SAC,SPA,NHA TANA			
Flow rate in receiving waters:		ONTE	inspect	Not available	m³.sec ⁻¹ Dry Weather Flow
Not available			tion put	Not available	m³.sec ⁻¹ 95%ile flow
Emission Details:			oses of a		
(i) Volume emitte	Volume emitted Not available		or and c		
Normal/day	Not available m³	Maximum/day	et lie.		Not available m ³
Maximum rate/hour	Not available m³	Period of emission (avg)	Not	Not available_min/hr	hr/day day/yr

TABLE D.1(iii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Storm Water Overflow) (1 table per discharge point)

Discharge Point Code:_

SW02 Carrigtwohill

Source of Emission:		Storm Water Overflow	Overflow Carrigtwohill			
Location:	,	Townland of Tullagreen				
Grid Ref. (12 digit, 6E, 6N):	; eN):	E181731 N72685				
Name of receiving waters:	ters:	Barryscourt Stream		,		
River Basin District:		South Western River B	asin District			
Designation of receiving waters:		SAC, SPA, NHA				
Flow rate in receiving waters:		Inspection of the state of the	inspection in	Not available Not available	m ³ .sec ⁻¹ Dry Weather Flow	Flow
Emission Details:	,		oses officed sections			
(i) Volume emitte	Volume emitted Not available		o any of			
Normal/day	Not available m³	Maximum/day	et use.			m³
Maximum rate/hour	< Not available m³	Period of emission (avg)	NON	Not available_min/hr	hr/dayday/yr	, yr

Carrigtwohill Section D-Standard Forms

TABLE D.1(iii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Storm Water Overflow) (1 table per discharge point)

Discharge Point Code:_

SW03Carrigtwohill

Source of Emission:		Storm Water Overflow Ba	irryscourt Pump hou	Overflow Barryscourt Pump house (not operational until late 2008)	late 2008)
Location:		Townland of Tullagreen			
Grid Ref. (12 digit, 6E, 6N):	; eN):	E181288 N72283			
Name of receiving waters:	ters:	Barryscourt Stream			
River Basin District:		South Western River Basi	n District		
Designation of receiving waters:		SAC,SPA,NHA TANA ASSAURANT SAC,SPA,NHA TANA ASSA			
Flow rate in receiving waters:		HERT HER	_e&	Not available	m ³ .sec ⁻¹ Dry Weather Flow
		,0	lon pui	Not available	m ³ .sec ⁻¹ 95%ile flow
Emission Details:			oses of edited		
(i) Volume emitted Not available	d Not available		or any of		
Normal/day	Not available m³	Maximum/day	et tiee.		Not available m ³
Maximum rate/hour	Not available m³	Period of emission (avg)	Not	Not availablemin/hr	hr/dayday/yr

PT_CD SW01Carrigtwohill SW02Carrigtwohill SW03Carrigtwohill	PT_TYPE iill Primary iill Secondary iiil Secondary	LA_NAME Cork County Council Cork County Council Cork County Council	RWB_TYPE Coastal Coastal Coastal	RWB_NAME Slatty Water Slatty Water Slatty Water	DESIGNATION SAC, NHA, SPA SAC, NHA, SPA SAC, NHA, SPA	EASTING 180600 181731 181288	NORTHING 72278 72685 72283	Verified No No No
SW01Carrigtwohill SW02Carrigtwohill SW03Carrigtwohill	Storm Overflow Storm Overflow Storm Overflow	Cork County Council Cork County Council Cork County Council	Coastal Coastal Coastal	Slatty Water Slatty Water Slatty Water	SAC, NHA, SPA SAC, NHA, SPA SAC, NHA, SPA	180600 181731 181288	72278 72685 72283	0 0 0 Z Z Z

all to Cork Harbour

SECTION E MONITORING

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

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

Provide an estimation of the quantity of waste water likely to be emitted in relation to all primary and secondary discharge points applied for. This information should be included in Table E.1(i) of the Annex. The primary discharge shall be annotated with a **(P)**.

Provide an estimation of the quantity of waste water likely to be emitted in relation to all storm water overflows within the agglomeration applied for. This information should be included in Table E.1(ii) of the Annex.

E.2. Monitoring and Sampling Points

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

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

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

Details of any accreditation or certification of analysis should be included.

Attachment E.2 should contain any supporting information.

Attachment included	Yes	No
	X	ì

E.3. Tabular data on Monitoring and Sampling Points

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

PT_CD	PT_TYPE	MON_TYPE	EASTING	NORTHING	VERIFIED
Provide	Point Type (e.g., Primary, Secondary, Storm Water Overflow)	Monitoring Type M = Monitoring S = Sampling	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used

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

E.4 Sampling Data

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

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

Attachment E.4 should contain any supporting information.

Attachment included	Yes	No
	X	

Consent of copyright owner required for any other

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ANNEX - Standard Forms

Carrigtwohill ApplicationSection E .doc

Identification Code for Discharge point	Frequency of discharge (days/annum)	Quantity of Waste Water Discharged (m ³ /annum)
SW01 Carrigtwohill (P)	365 Days per annum	658460 (based on a calculated average 10mths)
SW02 Carrigtwohill	Not available	Not available
SW03 Carrigtwohill	Not available- Not Operational until late 2008	Not available- Not Operational until late 2008
1	Cons	
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	den de la companya de	
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		9,

TABLE E.1(ii): WASTE WATER FREQUENY AND QUANTITY OF DISCHARGE - Storm Water Overflows

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	olly ed for		
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		iei 11 ⁵⁸	
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			,
Not available	Not available	Not available	SW03Carrigtwohill
Not available	Not available	Not available	SW02 Carrigtwohill
Not available	Not available	Not available	SW01 Carrigtwohill
Complies with Definition of Storm Water Overflow	Quantity of Waste Water Discharged (m³/annum)	Frequency of discharge (days/annum)	Identification Code for Discharge point

Table E3 MONITORING AND SAMPLING LOCATIONS

PT_CD	PT_TYPE	MON_TYPE	EASTING	NORTHING	VERIFIED	
!	Primary +storm					
SW01Carrigtwohill	overflow	sampling	181731	72685 No	CZ	
	Emergency+storm					
SW02Carrigtwohill	o/flow	none	180600	72278 No	0	
٠	Emergency+storm					
SW03Carrigtwohill*	o/flow	none	181288	72283 No	C	
* not operational						
-	Discharge location at					
DSW01Carrigtwohill	plant	sampling	181170	72269 No	CZ	
2/1						

Julioses only any other

				- 1		- 1		1 1	- 1			\Box	$\overline{}$	 _	$\neg \neg$			_								
					Xvlene	TPH C10-C36	Total Organic Carbon	Toluene	Selenium (OES)	Polyaromatic Hydrocarbons	Mercury (OES)	EPH	Dichloromethane	Atrazine	Arsenic (OES)	Parameter			05/09/2007	08/08/2007	04/07/2007	06/06/2007	04/04/2007	07/03/2007	17/01/2007	
				GC-MS 1	GC-MS 1	GC-FID	TOC analyser (NPOC)	HPLC	ICP-OES	GC-MS 2	ICP-OES	GC-FID	Colorimetry	HPLC	ICP-OES		Average Kg/Day	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Sample	
				<0.01	\vdash	<u> </u>	13.20	<0.01	2	<0.10	1.1	Δ Δ	\$	<0.01	Result		7.611111	7.3	7.5	7.5	8	7.6	7.9	٥١٠	PH	
				ug/L	ug/L as Sn	ug/L	ng/L	ug/L	ug/L	ug/L	ng/L	ug/L	ug/L	ug/L	Units	63.336067	46.3	19	102	37	19	18	129	7.7	BOD mg/L	
		1		GR1019	GR1019	GR1019	GR1019	GR1019	GR1010	GR101	GR101	GR101	GR101	GR101		386.19867		72	517 275	319	141	131	114	43	COD mg/L	
,	•			GR1019 Carrigtwohill WWTP Effluent 24/10/07	GR1019 Carrigtwohill WWTP Effluent		88.829704	49.222222	29	57	82	25	26	35		SS mg/L										
				WWTP Eff	III WWTP Eff	III WWTP Eff	III WWTP Ef	iii WWTP Ef	III-WWTP E	THE WATE	Source		75	240	2.36	4.8	2.42	10.23	1.99	\rightarrow		ARRIGT				
				uent 24/10/0	uent 24/10/0	uent 24/10/0	uent 24/10/0	luent 24/10/07	luent 24/10/0%	luent 24/10/07		fluent 24/10/07		fluent 24/10/07		039	37.57143	20			79	46.6	37	21		`
							ा	j) di	Sov						<u> </u>	-	18.2	18		35.8	\downarrow			Nr 3 mg/L	, .	
growth to a commentation with the many that we have the second of the se	the are the transfer and the second second the second	and the second		40.00004 40.00000	0.001809	23.8216	<0.00002	0.00361	<0.00018	0.00199	< 001805	009023	<:00002	0.01083	Ko/Dav	94.6247 3.59	2	H	-	70	72. 0	•		SO4 0	1 O	
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															0.073345		<0.02 <0.02	0.054 <0.	0.034 0.059		<0.02 0.0	+-		Chromium Copper	Z	
				٠.						-					0.0424	_	02 <0.02	╀	0.034	+	0.068 <0.02	+	Pool			
															0.05053	0.028	+	1	0.032		2 <0.02		Nickel	MANAGED III		
· .								** *****		_					0.0979 0.0	5	+	4	0.089	-	0.046		Zinc B	1		_
															0.068577 < 0.036093	1	+	0.067	043		0.022	+	Barium Cad			
							r								5093 <0.0360	<0.02 <0.02 0.02 0.02	\sqcup	60.02	\downarrow		-		Cadmium Boron			
			r												0.4	2 0.25					+	-	n Fluoride			
								,		,					3.89808	2.16							Nitrate as N			
															ωΙο	』 ○ [Ш				I			

€ id		
Parameter Arsenic (OES) Atrazine Cyanide Dichloromethane EPH Mercury (OES) Phenols (Total) Polyaromatic Hydrocarbons Selenium (OES) Simazine Totluene Totluene Totluene Totlo-C36 Xylene	541012001	Sample Date 04/07/2007 05/09/2007
Method Resulting ICP-OES 7 HPLC <0.01 Colorimetry <5 GC-MS 1 <1 ICP-OES <0.2 ICP-OES <0.2 HPLC <0.01 ICP-OES 2 HPLC <0.01 ICP-OES 2 HPLC <0.01 GC-MS 1 <0.01 TOC analyser (NPOC) 13.80 GC-MS 1 <0.01 GC-MS 1 <0.01	Average	Sample Influent
## Units	7.3 36 1:	pH BOD mg/L CC
Source GR1018 Carrigtwohill Influent 24/10/07	138 70 1130.25 70	CAR COD mg/L SS mg/L TP n 2122.5
# 24/10/07 # 24/10/07	1.45 26 3 1.45 26 14	ARRIGTOHILL TP mg/L TN mg/L NH,
on and the second for any other the	24.5 <30	SEWAGE TO PO
	646 0.034 646 0.034	IREATMENT PLANT 4-P Cond 20C Chromium Copper
	<0.02 <0.02	PANIT Lead
	<0.02 <u>0.096</u>	Nickel Zinc
		Barium Cad
<0.02 <0.02	Н	Cadmium Boron
0.34	0.34	Nitrate as N

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

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

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

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

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

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

- Describe the existing environment in terms of water quality with particular reference to environmental quality standards or other legislative standards. Submit a copy of the most recent water quality management plan or catchment management plan in place for the receiving water body. Give details of any designation under any Council Directive or Regulations that apply in relation to the receiving water.
- o Provide a statement as to whether or not emissions of main polluting substances (as defined in the *Dangerous Substances Regulations S.I. No. 12 of 2001*) to water are likely to impair the environment.
- o In circumstances where water abstraction points exist downstream of any discharge describe measures to be undertaken to ensure that discharges from the waste water works will not have a significant effect on faecal coliform, salmonella and protozoan pathogen numbers, e.g., Cryptosporidium and Giardia, in the receiving water environment.
- o Indicate whether or not emissions from the agglomeration or any plant, methods, processes, operating procedures or other factors which affect such emissions are likely to have a significant effect on
 - (a) a site (until the adoption, in respect of the site, of a decision by the European Commission under Article 21 of Council Directive 92/43/EEC for the purposes of the third paragraph of Article 4(2) of that Directive)
 - (i) notified for the purposes of Regulation 4 of the Natural Habitats Regulations, subject to any amendments made to it by virtue of Regulation 5 of those Regulations,
 - (ii) details of which have been transmitted to the Commission in accordance with Regulation 5(4) of the Natural Habitats Regulations, or
 - (iii) added by virtue of Regulation 6 of the Natural Habitats Regulations to the list transmitted to the Commission in accordance with Regulation 5(4) of those Regulations,
 - (b) a site adopted by the European Commission as a site of Community importance for the purposes of Article 4(2) of Council Directive 92/43/EEC¹ in accordance with the procedures laid down in Article 21 of that Directive,
 - (c) a special area of conservation within the meaning of the Natural Habitats Regulations, or
 - (d) an area classified pursuant to Article 4(1) or 4(2) of Council Directive 79/409/EEC²;
 - ¹Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (OJ No. L 206, 22.07.1992)
 - ²Council Directive 79/409/EEC of 2 April 1979 on the conservation of wild birds (OJ No. L 103, 25.4.1979)

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

Attachment included	Yes	No
	x	

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

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

ABS_CD	AGG_SERVED	ABS_VOL	PT_CD	DIS_DS	EASTING	NORTHING	VERIFIED
Abstraction Code	Agglomeration served	Abstraction Volume in m³/day	Point Code Provide label ID's	Distance Downstream in meters from Emission Point to Abstraction Point	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used

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

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

Attachment F.2 should contain any supporting information.

SURFACE/GROUND WATER MONITORING TABLE F.1(i)(a):

(Primary Discharge Point - one table per upstream and downstream location)

SW01 Carrig Discharge Point Code:

MONITORING POINT CODE:

SW01 Carrig

Analysis method / technique Electrochemical Electrochemical Electrochemical Turbidimetric Digestion + Colorimetric Colorimetric Gravimetric Colorimetric Colorimetric Colorimetric Colorimetric Digestion + Digestion + GC-MS 2 N/A N/A N/A Quantitation Limit of 0.5 µmhos/cm 0.02 mg/L 0.02 mg/L 0.06 mg/L 0.5 mg/L 0.2 mg/L 0.5 mg/L 0.5 mg/L 0.1 µg/L 30 mg/L Α N/A (grab, drift etc.) Sampling method Composite 🦠 Composite Oct 24 52 <0.10 2.16 2.06 NA 840 8.0 25 Y Y ¥ 29 17 Sept 5 Results (mg/l^{Note 1}) 35.3 100 18 102 275 2.4 A A NA NA A A A Aug 8 2.36 1.87 517 Ϋ́ ₹ Z ¥ × A A A Ϋ́ 37 57 ₹ July 4 82 35.8 4.80 319 ₹ ¥ 29 A A A ₹ Z ₹ 2 ž Biochemical Oxygen Demand Chemical Oxygen Demand Orthophosphate (as P) -Total Phosphorus (as P) Phenols (sum) Note 2 (ug/I) Electrical Conductivity Total Nitrogen (as N) Hardness (as CaCo₃) Suspended Solids Dissolved Oxygen Ammonia (as N) Sulphate (SO₄) Nitrate (as N) **Temperature** Nitrite (as N) Parameter unfiltered (@25°C) 2007

Note 1: Or other unit as appropriate – please specify. Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

TABLE F.1(i)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances) (Primary Discharge Point - one table per upstream and downstream location)

Discharge Point Code:_

SW01 Carrig

MONITORING POINT CODE:

SW01 Carrig

Parameter		Re	Results		Sampling	Limit of	Analysis method
	***	<u>.</u>	(l/gd)		method	Quantitation	/ technique
2007	July 4	Aug 8	Sept 5	Oct 24	(פומה/מוורפורי)		
Atrazine	ΑN	ΝΑ	NA	<0.01	Composite	0.06/1	
Dichloromethane	ΝΑΝ	AN AN	NA	\ \ \	Composite	1/I	UPLC CO MO 4
Simazine	AN AN	Y.	NA NA	<0.01	Composite	1 pg/L	GC-MS I
Toluene	NA	NA	ΝΔ	10.07	Composito	0.01 µg/L	HPLC 00 ::0 /
Tributyltin	2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		10.07	eniiposite	0.02 µg/L	GC-MS 1
Vilonos	¥.	WA	NA	<0.02	Composite	0.02 µg/L as Sn	GC-MS 1
vyieries	NA	AA	NA	<0.01	Composite	1 µg/L	GC-MS 1
Arsenic	NA	NA	NA	9.0	Composite	0.96 ug/L	ICP-MS
Chromium	34	54	NA	20	Composite	20 ug/l	ICP-OFS
Copper	59	20	NA	20%	Composite	20.10/1	1CB OEC
Cyanide	NA A	NA V	AN	~5 SS	Composite	50 pg/L	ICK-OES
Fluoride	ΝΑ	NA	NA	250		3 µg/ L	Colorimetric
Lead	34	20	NA		Composito	20 ::0/L	100 010
Nickel	32	40	NA	20	Cambosito	20 µg/L	ICK-UES
Zinc	68	57	AN	25	Composite	20 µg/L	ICP-UES
Boron	NA	NA	NA	20	Composito	20 µg/L	ICK-UES
Cadmium	ΔN	20	\ \	200	Colliposited	ZU µg/L	ICP-DES
Merciny		20	¥ :	70	Composite	20 µg/L	ICP-OES
Colonia	NA.	NA	NA	1.1	Composite %	0.2 µg/L	ICP-MS
Selenium	NA	NA	NA	2	Composite %	0.74 µg/L	ICP-MS
barium	42	67	A	20	Composite	20/1	010 011

Carrigtwohill Application Dec

 TABLE F.1(ii)(a):
 SURFACE/GROUND WATER MONITORING
 (1 table per discharge point)

 (Secondary Discharge Point)

SW02 Carrig Discharge Point Code:_

SW02 Carrigl MONITORING POINT CODE:

Parameter		Re	Results		Sampling	l imit of	Podtom pionica A
<i>-</i>		gm)	$(mg/l_{Note 1})$	1	method	Quantitation	/ technique
2007	July 4	Aug 8	Sept 5	Oct 24	(Biab, aille etc.)		
Hď	ΑN	AN	NA NA	N A N	V N		-
Temporature	414	414			<u> </u>	7	Electrochemical
	YA:	NA	NA	NA	NA	N/A	N/A
clectrical Conductivity (@25°C)	Υ Σ	A V	Y Y	N A	NA	0.5 µmhos/cm	Electrochemical
Suspended Solids	NA	NA	NA	NA AN	NA	0 5 ma/1	Craminocrip
Ammonia (as N)	NA	AN AN	NA	NA	NA	0.0 mg/L	Colonimetric
Biochemical Oxygen Demand	NA NA	NA	AN	NA	NA	0.02 IIIg/L	CONDIMINETRIC
	ΔN	ΔN	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	200	C 2	0.00 IIIg/L	Electrochemical
Chemical Oxvoen Demand	<u> </u>	<u> </u>	<u> </u>	₹ S	NA.	8 mg/L	Digestion +
Dissolved Owners	4.4			0			Colorimetric
Dissolved Oxygen	AN.	NA	NA	NA AN	NA	N/A	N/A
Hardness (as CaCo ₃)	AA	NA	Z A	NA	MA	N/A	N/A
	Υ N	Υ Y	N A	ΔA	ON AS	0.5 ma/L	Digestion +
Iotal Nitrogen (as N)	;				Dur	i	Colorimetric
Nitrite (as N)	ΝΑ	NA	NA	NA	NA Sold	N/A	N/A
Nitrate (as N)	NA	NA	NA	AN		0.5 ma/l	Colorimetric
	ΑN	NA	NA	AN	NA NA	0.2 ma/l	Digestion +
Total Phosphorus (as P)					वित्र		Colorimetric
Orthophosphate (as P) -	A A	Ϋ́	NA	NA	AN	0.02 mg/l	Colorimetric
unfiltered						1 /6 10	
Sulphate (SO ₄)	ΑN	NA	AA	¥Z	NA	30 mg/l	Turbidimotric
Dhannic (cirm) Note 2 (11,0/1)	ÝŽ.	V V	4 14	4 1 4		30 III 9/ E	ו מו מומוווופרו וכ
(I/Rn) (amili)		ZZ.	ZA Z	V V	MA.	1/01 0	COMO

Note 1: Or other unit as appropriate – please specify. Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

 TABLE F.1(ii)(b):
 SURFACE/GROUND WATER MONITORING
 - (1 table per discharge point upstream and downstream locations)

 (Secondary Discharge Point)

SW02 Carrig Discharge Point Code:_

SW02 Carrig MONITORING POINT CODE:

Parameter		Re	Results		Sampling	Limit of	Analysis mathod
		.	(l/6d)		method	Quantitation	/ technique
2007	July 4	Aug 8	Sept 5	Oct 24	ו אומה מווור פרכי /		
Atrazine	ΝΑ	ΝΑ	ΝΑ	NA	ΔN	0.06 110/1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Dichloromethane	NΑ	NA	S Z	44	44	0.30 µg/L	TPLC.
Simazina			Z :	WA.	¥2	1 µg/L	GC-MS 1
JIIIaziiie	INA	NA	NA	NA	AN A	0.01 µg/L	HPLC
loluene	NA	NA	NA	ΑĀ	NA	0.02 ug/L	GC-MS 1
Tributyltin	NA	NA	NA	NA	AN	0.02 ug/l as Sn	MO T
Xylenes	NA	AA	NA NA	NA	AN	1 10/1	T CM CO
Arsenic	AN	Y Y	NA	ANA	NA	0 06 ua/l	1CP MC
Chromium	ΑN	NA	NA	\$		20 mg/L	ICF-MS
Conner	Ž Ž	2				ZU µg/L	ICP-0ES
Coppel	Į.	NA	NA	NA C	NA	20 µg/L	ICP-0ES
Cyanide	NA	NA	ΑN	NA NA	AN.	5 ua/l	Colorimetric
Fluoride	¥	NA	NA	NA V	ANA.	100 00/1	10.6
Lead	AN	AA	NA			20 Pg/L	100 010
Nickel	AN	ĄN	ΔN		N. CO	20 mg/L	ICK-OES
Zinc	NA AN	NA	AN	NA	O S VIV	20 µg/L	ICP-DES
Boron	AN	AN	ΔN	NA		20 µg/L	ICP-DES
Cadmium	ΔN	\Z				ZU µg/L	ICP-OES
Morrison	2	<u> </u>	¥.	NA NA		20 µg/L	ICP-0ES
riei cui y	NA	NA	NA	NA	AN	0.2 µg/L	ICP-MS
Selenium	NA	NA	NA	NA	NA	0.74 ua/L	ICP-MS
Barium	A V	NA	NA	ΝΑΝ	AN	20 10/1	20-071
					S	- 2 P3/ E	1C - 0L3

TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream locations)
(Secondary Discharge Point)

SW03 Carrig Discharge Point Code:_

SW03 Carrig MONITORING POINT CODE:

Parameter		۵	Boculto				
,	•	m)	$(mg/l^{Note 1})$		Sampling	Limit of Quantitation	Analysis method / technique
2007	July 4	Aug 8	Sent 5	0c+20	grab, drift etc.)		
		2	2 2 2 2	777			
Hd	Ϋ́	NA	NA	NA	NA	2	Electrochemical
Temperature	NA	NA	ΑN	NA	ĄZ	N/A	N/A
Electrical Conductivity (@25°C)	NA	NA	NA	NA	AN	0.5 µmhos/cm	Electrochemical
Suspended Solids	NA	NA	NA V	ĄV	NA	0 5 ma/1	S. S
Ammonia (as N)	ΔN	ΝΔ	VN.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V 12	0.0 IIIg/L	GIAVIIIIEULIC
Riochomical Owigen Demand			5	KA C	NA.	0.02 mg/L	Colorimetric
Diocileillical Oxygen Demand	A :	NA	NA	ANI	NA	0.06 mg/L	Electrochemical
	NA NA	A A	Z Z	Ž	AN AN	8 mg/L	Digestion +
Criemical Oxygen Demand				ço j		-	Colorimetric
Dissolved Oxygen	NA	AN A	NA	NA ASS	AN	N/A	N/A
Hardness (as CaCo ₃)	NA NA	NA A	NA	NA NA	NA.	N/A	N/A
	NA AN	AA	N A	NA	A A CO	0 5 mg/l	Discotion
Total Nitrogen (as N)					i Put	0.0 IIIg/ L	Colorimotrio
Nitrite (as N)	AA	NA	NA	AN	NA SO	N/A	בסוסו וווופנו וכ
Nitrate (as N)	NA	NA	NAN	NA	AN	0 5 mg/l	Colorimotrio
	Ž	NA	NA	ΔN	3	0.5 mg/L	Colon III leti ic
Total Phosphorus (as P)		-	,	5	i ani	0.2 IIIg/L	Digestion +
Orthophosphate (as P) -	AA	NA NA	ĄZ	NA	NA NA	0.00	Coloninectic
unfiltered			· • •		ner	0.02 IIIg/L	Colorimetric
Sulphate (SO ₄)	AN	NA	AN	AN	NA	30 mg/l	T
Dhonole (c) Note 2 (//)	414	4 4				JO HIG/L	Iurpialmetric
rileilois (suin) — (ug/i)	NA	NA NA	Y A	AA	≪ Z	0.1 ng/l	C DMC 2

Note 1: Or other unit as appropriate – please specify.

Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Carrigtwohill Application Dec

WWD Application Form V2/07

TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream locations)
(Secondary Discharge Point)

SW03 Carrig SW03 Carrig MONITORING POINT CODE: Discharge Point Code:

Daramoton							
	-	. Re	Results		Sampling	limit of	
		<u>=</u>	(l/grl)		method	Quantitation	Analysis method
2007					(grab, drift etc.)		anhillion /
(202	July 4	Aug 8	Sept 5	Oct 24	() ()		
Atrazine	NA	NA	NA	N N			
Dichloromethane	NA A	ΔN	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Z - 2	NA	0.96 µg/L	HPLC
Simazine	NA	NA		AN .	NA	1 µg/L	GC-MS 1
Toluene	AA	Q V	4 4 2 3	Y A	NA	0.01 µg/L	HPIC
Tributyltin	¥.	ΔN		AN S	NA	0.02 µg/L	GC-MS 1
Xylenes	A	AN	V V	AN A	NA	0.02 µg/L as Sn	GC-MS 1
Arsenic	NA	NA		AN A	NA	1 µg/L	GC-MS 1
Chromium	NA	NA		NA	NA	0.96 µg/L	ICP-MS
Copper	AN			W.A	NA	20 µg/L	ICP-OFS
Cyanide	NA		YN S	\sim 1	NA	20 µg/L	ICP-OFS
Fluoride	ΔN		NA S	NA OO	NA	5 µg/L	Colorimetric
Lead	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	X 2	NA.	NA	NA A	100 µa/l	ICE
Nickel	V.	NA NA	NA	<i>S</i> .	N.O.	20 ug/l	TOP DEC
Zinc		NA.	NA	NA	MA CITY	20 ug/l	TOP OFF
Boron	4	NA	NA	ΑA	NA is 20	20 02/1	ICF-UES
	NA	NA	NA	NA	13	20 µg/L	ICP-0ES
Cadmium	NA	NA	AN	NA	O S O S O S O S O S O S O S O S O S O S	20 µg/L	ICP-0ES
Mercury	NA	ΑN	NA		Y. O	20 µg/L	ICP-0ES
Selenium	NA	NA	NA		NA NA	0.2 µg/L	ICP-MS
Barium	NA	NA	NA		NA STORES	0.74 µg/L	ICP-MS
				2	YA.	20 11971	010 001

Cork County Council

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

Not Applicable

For its pedion purposes only any other use

SECTION G: PROGRAMMES OF IMPROVEMENTS

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

G.1 Compliance with Council Directives

Provide details on a programme of improvements to ensure that emissions from the agglomeration or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of; the Dangerous Substances Directive 2006/11/EC, the Water Framework Directive 2000/60/EC, the Birds Directive 79/409/EEC, the Groundwater Directives 80/68/EEC & 2006/118/EC, the Drinking Water Directives 80/778/EEC, the Urban Waste Water Treatment Directive 91/271/EEC, the Habitats Directive 92/43/EEC, the Environmental Liabilities Directive 2004/35/EC and the Bathing Water Directive 76/160/EEC.

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

Attachment included	Yes	No
	×	

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

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

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

Attachment included	Yes	No
		×

G.3 Impact Mitigation

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

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

Attachment included	Yes	No
	×	

G.4 Storm Water Overflow

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

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

Attachment included	Yes	No
		×

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Section G:

		G4- STORM OVERFLOWS.	No programme of improvements at this time	Will be addressed in the Preliminary Report		As for Crossshaven As for Crossshaven As for Crossshaven	IN ABP March '08	
		G3-IMPACT MITIGATION	No further works identified as necessary at this time.	No interim mitigation measures are proposed		As for Crossshaven As for Crosshaven As for Crosshaven No interim proposals		
	G2-COMPLIANCE WATER OF	STANDARDS FOR PHOSPHOROUS REGULATIONS (SI NO. 258 OF 1998) Blamey (Rights of 1998)	been upgraded to 13,000 p.e. secondary treatment and includes nutrient removal. No additional upgrading is proposed at this time.	discharge is not to sensitive waters	As for Crosshaven	n the		
	TION GI-COMPLIANCE WITH COUNCIL. DIRECTIVES	No information to hand on this.	Forms an element of the proposed	by the Lower Harbour Wastewater Meatment Plant the EIS for which will be ledged with An Bord Pleanala at end 2007. The Preliminary Report is also at an advanced stage and will be lodged with Deut Control of the Contr	2008. The reports with address all relevant environmental and drainage issues. As for Crossshaven As for Crossshaven	First phase proposal is to increase capacity to 45,000 p.e. secondary treatment. EIS and PR will address	ment programme	
1	AGGLOMERATION	1 Blamey	2 Crosshaven		3 Cobh 4 Carrigaline 5 Ringaskiddy	6 Carrigtwohill	Attachment included 1/ Assessment of Needs 2/ Water Services Invest 2007-2009	

Cork County

Water Services Investment Programme 2007 - 2009

Schemes at Construction	w/s	Est. Cost	以最早期1月21日 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	w/s	Est. Cost
Think man that we transfer as the				T. Atia	
Cork North				Tarit	
Mitchelstown Sewerage Scheme	†		Cork South		
(Nutrient Removal)	S	221,000	Ballincollig Sewerage Scheme (Upgrade) (G)	S	22,248,000
			Cork Lower Harbour Sewerage Scheme (excl. Crosshaven	SS)S	73,542,000
Cork South			Shannagarry/ Garryyoe/ Ballycotton Sewerage Scheme	S	3,780,000
Ballyvourney/ Ballymakeery Sewerage Scheme	S	3,049,000	Youghal Sewerage Scheme	s	14,420,000
Coph/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	10/	14,935,000
Kinsale Sewerage Scheme	S	20,000,000	2 F. 18/100 Subballi F. F. U.	· V	G THE L
Midleton Sewerage Scheme (Infiltration Reduction) (C	3) S	2,078,000	Clonakilty Sewerage Scheme (Plant Capacity Increase)	3	3,677,000
		41,274,000	Courtmacsherry/Timoleague Sewerage Scheme	S	2,472,000
Schemes to start 2007			Dunmanway Regional Water Supply Scheme Stage 1	W	12,669,000
				11:	164,629,000
Cork North			Serviced Land Initiative	11 1	
North Cork Grouped DBO Wastewater Treatment		# # .		!]	
Plant (Buttevant Doneraile & Kilbrin)	S	5,150,000	Cork North	il i	
		1	Ballyclough Water Supply Scheme	w	139,000
Cork West		1	Ballyhooley Improvement Scheme	w/s	139,000
Skibbereen Sewerage Scheme	S	20,000,000	Broghill-Rathgoggin Sewerage Scheme	S	406,000
		25,150,000	Bweeng Water Supply Scheme	W I	in the late of the
Schemes to start 2008				1000	115,000
Cork North			Churchtown Sewerage Scheme (incl. Water)	w/s	543,000
Mallow/ Ballyviniter Regional Water Supply Scheme (I	4334	9.653.000	Clondulane Sewage Treatment Plant	S	417,000
Mallow Sewerage Scheme (H)	-	8,652,000 5,408,000	Freemount Sewerage Scheme	S	150,000
Mailow Sewerage Scriente (11)	3	5,406,000	Pike Road Sewerage Scheme (incl. Water)	W/S	2,080,000
Cork South			Rathcormac Sewerage Scheme (incl. Water)	W/S	555,000
Ballincollig Sewerage Scheme (Nutrient Removal) (G)	9	948,000	Spa Glen Sewerage Scheme	s	736,000
Ballingeary Sewerage Scheme	S	1,296,000	Uplands Fermoy Sewerage Scheme (incl. Water)	w/s	1,174,000
Bandon Sewerage Scheme Stage 2	S	14,729,000	Watergrasshill Water Supply Scheme (incl. Sewerage) (G)	w/s	4,151,000
City Environs (CASP) Strategic Study (G)	S	153,000		'	
Cloghroe Sewerage Scheme (Upgrade)	s	683,000	Cork South	1 :	Hart Jake
Coachford Water Supply Scheme	w	1,318,000	Ballincollig Sewerage Scheme (Barry's Rd Foul and	1	
Garrettstown Sewerage Scheme	s	2,153,000	Storm Dramage) (G)	S	1,164,000
Inniscarra Water Treatment Plant Extension Phase 1	W	2,678,000	Belgooley, Water Supply Scheme (Incl. Sewerage)	MA	
Little Island Sewerage Scheme (G)	s	2,200,000	Biamey Water Supply Scheme (Ext. to Station Rd) (G)	W/S	2,913,000
		Special Pin	1 Mi 4 M 1 1 1 1 1 1 1 1 1	•	416,000
		Carlon on	Carrigtwohill Sewerage Scheme (Treatment and	· [] :	
Cork West		Sec On	Storm Drain) (G)	S	7,632,000
Bantry Sewerage Scheme	S		Castlematyr wastewater treatment Plant Extension	S	1,200,000
Dunmanway Sewerage Scheme	S	2,153,000 6.365,000	Crookstown Sewerage Scheme (incl. Water)	W/S	1,200,000
Leap/ Baltimore Water Supply Scheme	W	0,000,000	Dripsey Water Supply Scheme (incl. Sewerage)	W/S	1,112,000
Schull Water Supply Scheme	Sold	5,253,000	Glounthane Sewerage Scheme (G)	s	1,576,000
Schemes to start 2009	M	61,137,000	Innishannon Sewerage Scheme	s	277,000
Sometimes to stail 12005	11	1	Innishannon Wastewater Treatment Plant	S	694,000
Cork North	. B	1	Kerrypike Sewerage Scheme	s	832,000
Banteer/Dromahane Regional Water Supply Scheme	w	1,576,000	Kerrypike 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	Killeagh Water Supply Scheme (includes Sewerage)	W/S	485,000
Cork NW Regional Water Supply Scheme	w	6,046,000	1 64 1 105 11 4		and the first probability of
Millstreet Wastewater Treatment Plant (Upgrade)	s	1,628,000	Killeens Sewerage Scheme	S	420,000
		,	Kilnagleary Sewerage Scheme	S	694,000
		4	Midleton Wastewater Treatment Plant Extension	S	4,050,000
				1 '	
		1			
	H 4 [
	-	,	e production of the state of th	i •	* * * * * * * * * * * * * * * * * * *

Cork County contd.

Water Services Investment Programme 2007 - 2009

A CHARLES MARK TO THE STATE	W/S	Est. Cost		W/S Est. Cost
Mogeely, Castlemartyr & Ladysbridge Water Su	poly Scheme W	2,566,000	Cork South	
North Cobh Sewerage Scheme (G)	s	3.193,000	Carrigtwohill Sewerage Scheme (G)	S 20,000,000
Riverstick Water Supply Scheme (incl. Sewerag	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	525,000	Cork Sludge Management (G)	\$ 14,420,000
Rochestown Water Supply Scheme	W	2,700,000	Cork Water Supply Scheme (Storage -	Mount Emla,
Saleen Sewerage Scheme	s	1.051.000	Ballincollig & Chetwind) (G)	w 8,500,000
Youghal Water Supply Scheme	W	2,300,000	Inniscarra Water Treatment Plant (Sluc	dge Treatment)(G)W 5,356,000
rougha vvaici oupply contino			Macroom Sewerage Scheme	S 5,150,000
Cork West			Minane Bridge Water Supply Scheme	W 1,421,000
Castletownshend Sewerage Scheme	s	1,576,000		
Castletown Shella Serverage Scholle		50,797,000	Cork West	
Rural Towns & Villages Initiative			Bantry Regional Water Supply Scheme	e (Distribution) W 9,455,000
Rulas towns & vinages indulive	and the same of th		Cape Clear Water Supply Scheme	W 1,679,000
Cork North			Castletownbere Regional Water Suppl	y Scheme W 8,405,000
Buttevant Sewerage Scheme (Collection System	m) S	2,446,000	Glengarriff Sewerage Scheme	S 2,500,000
Doneraile Sewerage Scheme (Collection Syste		1,738,000	Roscarberry/Owenahincha Sewerage	Scheme S 1,576,000
Donesale Gewerage Contents (School of Syste			Skibbereen Regional Water Supply Sc	All the second s
Cork South	ma w			95,646,000
Innishannon (Ballinadee/ Ballinspittle/ Garrettsto	wn)			
Water Supply Scheme	w	6,726,000	Water Conservation Allocation	12,206,000
rudo supply surface	17	3. # #		
Cork West		真小 化二十二醇	Asset Management Study	300,000
Ballylicky Sewerage Scheme	s	2,153,000		
Baltimore Sewerage Scheme	s	3,162,000	South Western River Basin District	(WFD) Project ¹ 9,400,000
Castletownbere Sewerage Scheme	s	5,202,000		
Schull Sewerage Scheme	s	3,523,000		
		24,950,000	Programme Total	485,489,000
Schemes to Advance through Planning				
Cork North		•	یق.	
Mitchelstown North Galtees Water Supply Scho	eme W	3,152,000	at 1180	
Mitchelstown Sewerage Scheme	· S	3,000,000	Offic	
Newmarket Sewerage Scheme	s	3,152,000	Orly, and	

¹ This project is being led by Cork County Council on behalf of other authorities in the River Basin District

- (H) Refers to a Hub as designated in the National Spatial Strategy
- (G) Refers to a Gateway as designated in the National Spatial Strategy

Kevin Sugrue, Senior Engineer, Water Services

Re: Licensing of Discharges

Ballincollig- Donald Cronin is preparing a response in respect of Ballincollig

Blarney- The Council has recently completed an upgrade of the wastewater treatment plant at Blarney to 13,000 p.e. and has no immediate proposals to increase that capacity. The plant at Blarney has two independent secondary treatment processes with the wastewater load being split approximately evenly between them. One stream has biological nutrient removal and the other has chemical nutrient removal. There is concern in relation to the nutrient levels in the river catchments north of Cork City and the Council has obtained approval to carry out a drainage study, the City Environs (CASP) Drainage Study which is being funded under the Water Services Investment Programme 2007-2009. This study will consider the drainage options available for the catchment concerned having regard to existing and planned developments in the area. The Council is currently preparing a brief for the appointment of a consultant and expects to advertise the appointment in early January 2008 and to have the study completed in approx six months thereafter.

Crosshaven- wastewater from Crosshaven is collected and discharged to the Carrigaline network and ultimately discharges to Cork Harbour via the 'IDA' sewer at the Dognose Bank. The discharge is currently untreated but will ultimately be served by the Lower Harbour SS, the treatment plant for which will be located at Carrigaline East and the effluent from this plant will discharge through the 'IDA' outfall to the harbour. The EIS for the wastewater treatment plant is being prepared and the Council hopes to lodge it with ABP by end of 2007. Nutrient removal is not being proposed as the receiving waters are not designated sensitive. The PR for the Scheme will be lodged with the DEHLG shortly after the EIS is sent to ABP but approval to the PR will not issue until after the EIS is approved, say mid 2008. The Lower Harbour SS is being funded under the Water Services Investment Programme 2007-2009 and the scheme is expected to be fully operational before the end of 2012.

Cobh – this also forms part of the proposed Lower Harbour SS and a significant upgrading of the Cobh sewer network is envisaged with the wastewater being pumped across the harbour to the proposed WWTP at Carrigaline East. The current estimated design capacity required is 80,000 p.e.

Carrigaline- this wastewater is discharged (see Crosshaven) via the 'IDA' sewer and will ultimately form part of the Lower Harbour SS

Ringaskiddy – as for Carrigaline

Carrigtwohill –EIS under preparation and expected to be submitted to ABP March '08. The anticipated first phase will be to increase treatment capacity to 45000 p.e. from the current 8500 p.e. . The works are to be funded under the Serviced land Initiative . Nutrient removal will be included in the EIS and the PR as the Lee Estuary/Lough Mahon Area is currently designated a sensitive water.

The above information should be read in conjunction with earlier correspondence on the same matter and in particular you should cross-reference with response received from Duane O'Brien in relation to Carrigtwohill.

Regards,

R O'Farrell, Senior Engineer, WSIP Projects Office 4th December 2007

SECTION H:

DECLARATION

Declaration

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

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

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

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

Signed by: Muller HO

Date 14h Dec

Print signature name:

Position in organisation:

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Carrigtwohill: ANNEX 2: Check List For Regulation 16 Compliance

must, in all cases, accompany a discharge licence application. In order to ensure that the application fully complies with the legal Regulation 16 of the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007) sets out the information which requirements of Regulation 16 of the 2007 Regulations, all applicants should complete the following.

In each case, refer to the attachment number(s) of your application which contain(s) the information requested in the appropriate subarticle.

-Checked∎by	Applicant <	>	>	>	>	>	>
Attachment	Number	B1	B7	B 2	B9	C,D	D2
ation_for_a_waste_water_discharge_licencethe	applicationshall	give the name, address, telefax number (if any) and telephone number of the applicant (and, if different, of the operator of any treatment plant concerned) and the address to which correspondence relating to the application should be sent and, if the operator is a body corporate, the address of its registered office of the operator is a body corporate, the address of its registered office of the operator.	give the name of the water services authority in whose functional area the relevant waste water discharge takes place or is to take place, if different from that of the applicant,	give the location or postal address (including where appropriate, the name of the townland or townlands) and the National Grid reference of the location of the waste water treatment plant and/or the waste water discharge point or points to which the application relates,	state the population equivalent of the agglomeration to which the application relates,	specify the content and extent of the waste water discharge, the level of treatment provided, if any, and the flow and type of discharge,	give details of the receiving water body, including its protected area status, if any, and details of any sensitive areas or protected areas or both in the vicinity of the discharge point or points likely to be affected by the discharge concerned, and for discharges to ground provide details of groundwater protection schemes in place for the receiving water body and all associated hydrogeological and geological assessments related to the receiving water environment in the vicinity of the discharge.
Reg		(a)	(q)	<u> </u>	ਉ	(e)	E C

Regu	Regulation 16(1) continued/	Attechnon	
		Number	Cnecked by-
6	identify monitoring and sampling points and indicate proposed arrangements for the monitoring of discharges and, if Regulation 17 does not apply, provide details of the likely environmental consequences of any such discharges,	E3	>
(h)	in the case of an existing waste water treatment plant, specify the sampling data pertaining to the discharge based on the samples taken in the 12 months preceding the making of the application,	E4	>
Ξ	describe the existing or proposed measures, including emergency procedures, to prevent unintended waste water discharges and to minimise the impact on the environment of any such discharges, $\bigcirc_{\mathcal{Q}}$	G	>
6	give particulars of the nearest downstream drinking water abstraction point or points to the discharge point or points,	Not applicable	>
3	give details, and an assessment of the effects, of any existing or proposed emissions on the environment, including any environmental medium other than those into which the emissions are, or are to be made, and of proposed measures to prevent be eliminate or, where that is not practicable, to limit any pollution caused in such discharges,	F1	>
Ξ	give detail of compliance with relevant monitoring requirements, and treatment standards contained in any applicable Council Directives of Regulations,	U	>
Ē (give details of any work necessary to meet relevant effluent discharge standards and a timeframe and schedule for such work.	33	>
E)	Any other information as may be stipulated by the Agency.	×	×

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Regu	Regulation 16(3) Without prejudice to Regulation 16 (1) and (2), an application for a licence shall be	Attachment	Checkedby
		Number	the
(a)	a copy of the notice of intention to make an application given pursuant to Regulation 9,	B8	
(p)	where appropriate, a copy of the notice given to a relevant water services authority under Regulation 13,	Not applicable	>
(c)	Such other particulars, drawings, maps, reports and supporting documentation as are necessary to identify and describe, as appropriate -		
	(i) the point or points, including storm water overflows, from which a discharge or discharges take place or are to take place, and $\frac{\zeta_0}{\zeta_0}$	85	>
	(ii) the point or points at which monitoring and sampling are undertaken or are to be undertaken,	E3	>
Ð	such fee as is appropriate having regard to the provisions of Regulations 38 and 39.	B9(ii)	>
An or partic	An original application shall be accompanied by 2 copies of it and obtain accompanying documents and particulars as required under Regulation 16(3) in hardcopy or in a fine ectronic or other format as specified by the Agency.		>
Regu For tl docur	Regulation 16(5) For the purpose of paragraph (4), all or part of the 2 copies of the said application and associated documents and particulars may, with the agreement of the Agency		The state of the s
	() in Total continued to anoing the state of the state o		>
	1 CD of geo-referenced digital files provided.		>
Regu	Regulation 17		>>
Europ Comp	Where a treatment plant associated with the relevant waste water works is or has been subject to the European Communities (Environmental Impact Assessment) Regulations 1989 to 2001, in addition to compliance with the requirements of Regulation 16, an application in respect of the relevant discharge.		
shall the A forma	shall be accompanied by a copy of an environmental impact statement and approval in accordance with the Act of 2000 in respect of the said development and may be submitted in an electronic or other format specified by the Agency		i n
	EIA provided if applicable		
	2 hardcopies of EIS provided if applicable,		>>
	2 CD Versions of EIS, as PDF files, provided.		