

PT_CD	PT_TYPE	LA_NAME	RWB_TYPE	RWB_NAME	DESIGNATION	EASTING	NORTHING	VERIFIED
SW01-CROO	Primary	Cork County Council	River	Bride (South)	Good	142567	65855	Y
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				Other	C SUL			
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Accreditation Certificate

Cork County Council

Wastewater Testing Laboratory, Inniscarra, Co. Cork

Testing Laboratory

Registration number: 016T

is accredited by the Irish National Accreditation Board (INAB) to undertake testing as detailed in the Schedule bearing the Registration Number detailed above, in compliance with the International Standard ISO/IEC 17025:2005 2nd Edition "General Requirements for the Competence of Testing and Calibration Laboratories" (This Certificate must be read in conjunction with the Annexed Schedule of Accreditation)

> Date of award of accreditation: 01:10:2002 Date of last renewal of accreditation: 20:09:2007 Expiry date of this certificate of accreditation: 20:09:2012

This Accreditation shall remain in force until further notice subject to continuing compliance with INAB accreditation criteria, ISO/IEC 17025 and any further requirements specified by the Irish National Accreditation Board.

Manager: Jom Domfrog

Chairperson: Man C Wall

Mr Tom Dempsey

Issued on 20th September 2007

Organisations are subject to annual surveillance and are re-assessed every five years. The renewal date on this Certificate confirms the latest date of renewal of accreditation. To confirm the validity of this Certificate, please contact the Irish National Accreditation Board.

The INAB is a signatory of the European co-operation for Accreditation (EA) Testing Multilateral Agreement (MLA) and the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement.

Wilton Park House, Wilton Place, Dublin 2, Ireland. Tel +353 1 607 3003 Fax +353 1 607 3109 E-mail inab@inab.ie Web www.inab.ie

Edition 19, 31/10/2007

016T

Page 1 of 7



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Schedule of Accreditation



DETAILED IN SCOPE REG NO.016T

(Annex to Accreditation Certificate)

Permanent Laboratory: Category A

CORK COUNTY COUNCIL

Chemistry Testing Laboratory

Initial Registration Date : Postal Address: (Address of other locations as they apply) Telephone: Fax: E-mail: Contact Name: Facilities: -Ory Purpose of the any other the 25-April-1991 cited for any other the Waste Water Laboratory Inniscarra Column Co. Cork of Cop +353 (21) 4532770

Ms M Cherry Normally not available for Public testing

Wilton Park House, Wilton Place, Dublin 2, Ireland Tel +353 1 607 3003 Fax +353 1 607 3109 E-mail inab@inab.ie. Web www.inab.ie

Schedule of Accreditation



DETAILED IN SCOPE REG NO.016

Permanent Laboratory: Category A

THE IRISH NATIONAL ACCREDITATION BOARD (INAB) is the Irish body for the accreditation of organisations including laboratories.

Laboratory accreditation is available to testing and calibration facilities operated by manufacturing organisations, government departments, educational institutions and commercial testing/calibration services. Indeed, any organisation involved in testing, measurement or calibration in any area of technology can seek accreditation for the work it is undertaking.

Each accredited laboratory has been assessed by skilled specialist assessors and found to meet criteria which are in compliance with ISO/IEC 17025 or ISO/IEC 15189 (medical laboratories). Frequent audits, together with periodic inter-laboratory test programmes, and we that these standards of operation are maintained.

Testing and Calibration Categories:

Category A:	Ategory A: Permanent laboratory calibration and testing where the laboratory is erected on a fixed location for a period expected to be greater than three years.				
Category B:	Site ca labora	Site calibration and testing that is performed by staff sent out on site by a permanent laboratory that is accredited by the Irish National Accreditation Board.			
Category C:	Site ca out by labora	Site calibration and testing that is performed in a site/mobile laboratory or by staff sent out by such a laboratory, the operation of which is the responsibility of a permanent laboratory accredited by the Irish National Accreditation Board.			
Category D:	Site ca do not	libration ar have a per	nd testing that is performed on site by individuals and organisations that manent calibration/testing laboratory. Testing may be performed using		
	(a)	portable	test equipment		
	(b)	a site la	boratory		
	(c)	a mobile	e laboratory or		
	(d)	equipme	ent from a mobile or site laboratory		
Standard Spec The standard spec recent visit, unles	ification or cification or ss otherwise	test process	ocedure Used: dure that is accredited is the issue that is current on the date of the most		
Glossary of Ter Facilities:	rms				
Public calibratio	n/testing s	ervice;	Commercial operations which actively seek work from others.		
Conditionally available for public calibration/testing:		public	Established for another primary purpose but, more commonly than not, is available for outside work.		
Normally not av calibration/testi	ailable for ng:	public	Unavailable for public calibration/testing more often than not.		
Laboratory usars	deblog to al	htele secure	was that callbustics as test coulds are callable and envelop out to the leich		

Laboratory users wishing to obtain assurance that calibration or test results are reliable and carried out to the Irish National Accreditation Board criteria should insist on receiving an accredited calibration certificate or test report. Users should contact the laboratory directly to ensure that this scope of accreditation is current. INAB will, on request, verify the status and scope.



Cork County Council

Chemical Testing Laboratory

Permanent Laboratory: Category A

INAB Classification numb (P9) Materials/products teste	er Type of test/properties measured Range of measurement d	Standard specifications Equipment/techniques used		
766 Waters	Chemical analysis:	Documented in-house methods based on Standard Methods for the Examination of Water		
766 Waters .01 Waters for domestic purpo Surface and grou waters	Chemical analysis: Biochemical Oxygen Demand 2 - 145,000 mg/l Chloride 5 - 1,000 mg/l ph 2 - 12 Consol of contribution processing of the formation of th	Documented in-house methods based on Standard Methods for the Examination of Water & Wastewater 21 st Edition APHA (See Note 1) XEP No. 1 Membrane electrode CP No. 7 Argentometric method CP No. 5 Electrometry CP No. 3 Gravimetric CP No. 6 Reflux - colourmetric method		
	Total phosphorus 0.2 - 5,300 mg/l Ammonia 0.1 - 1,000 mg/l NH₃ - N	US-EPA Approved method/HACH Method CP No.20 Documented in-house method CP22 by Konelab based on Method for the Examination of Waters and Associated Material HMSO:1981		



Cork County Council

Chemical Testing Laboratory

Permanent Laboratory: Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used			
766 Waters					
.01 Waters for domestic purposes Surface and ground waters	Orthophosphate as P (Konelab) Range: 0.005-1.00 mg O-PO4 P/L High Range: 1000 mg O-PO4 P/L Method Detection Limit: 0.02 mg O-PO4 P/K	CP No. 23 Ascorbic Acid Method			
	Chloride (Konelab) Range: 25-250 mg/L Cl-citon pure cutie High Range Conc.: 85,000 mg/L Cl- Method Detection Smith: 25 mg/L Cl-	CP No. 24 Ferricyanide Method			
	Sulphate (Konelab)	CP No. 25 Documented in-house method by			
	Range: 30-250 mg/L SO4/L	Konelab based on method for the examination			
	High Range Conc.: 35,000 mg/L SO4/L	of waters and waste waters and associated			
	Method Detection Limit: 30 mg SU47L	material HMSU: 1981			

016T



Cork County Council

Chemical Testing Laboratory

Permanent Laboratory: Category A

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used		
766	Waters	Chemical analysis	Documented in-house methods based on Standard		
			Methods for the Examination of Water&		
.05	Trade Wastes		Wastewater 21 st Edition APHA (See Note 1)		
	Industrial effluents	Biochemical Oxygen Demand	CRNO. 1 Membrane electrode		
	Urban Wastewater Municipal Wastewater	2 - 145,000 mg/l	or 2013		
		Chloride D ¹¹¹	CP No. 7 Argentometric method		
		5 - 1,000 mg/l			
		pH FORME	CP No. 5 Electrometry		
		2 - 12 Consent of			
		Suspended Solids	CP No. 3 Gravimetric		
		0.5 - 17,500 mg/l			
		Chemical Oxygen Demand	CP No. 6 Reflux - colourmetric method		
		21 - 135 mg/l			
		120 - 670,000 mg/l			
		Total phosphorus	US-EPA Approved method/HACH		
		0.2 - 5,300 mg/l	Method CP No.20		
		Ammonia	Documented in-house method CP22 by Konelab		
		0.1 - 1,000 mg/l NH3-N	based on Method for the Examination of Waters		
			and Associated Material HMSO: 1981.		

1. APHA American Public Health Association, USA, 21st Edition



Permanent Laboratory:

Category A

Cork County Council

Chemical Testing Laboratory

INAB Classification number Type of test/properties Standard specifications (P9) measured Equipment/techniques used Materials/products tested Range of measurement 766 Chemical analysis Waters Documented in-house methods based on Standard Methods for the Examination of Water& .05 Trade Wastes Wastewater 21 st Edition APHA (See Note 1) CPNo. 1 Membrane electrode Industrial effluents Urban Wastewater Municipal Wastewater Orthophosphate as P (Kone ab) CP No. 23 Ascorbic Acid Method Range: 0.005 - 1.00 mg 0.004 P/L High Range: 1000 mg 0-PO4 P/L Method Detection Limit: 0.02 mg O-Consent PO4 P/L Chloride (Konelab) CP No. 24 Ferricyanide Method Range: 25-250 mg/L Cl-High Range Conc.: 86,600 mg /L Cl-Method Detection Limit: 25mg / L Cl-Sulphate (Konelab)) CP No. 25 Documented in-house method by Range: 30-250 mg/L SO4 /L Konelab based on method for the examination of High Range Conc.: 35,000 mg/L SO4 /L waters and waste waters and associated material Method Detection Limit: 30 mg SO4 /L HMSO: 1981

Notes 1. APHA American Public Health Association, USA, 21st Edition

Drimony				
Filliary	Sampling	142567	65855	Y
Downstream	Sampling			Ν
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			l	
	Downstream	Downstream Sampling	Downstream Sampling	Downstream Sampling

Attachment E4 Crookstown Table E4					
Sample Date	12/10/2009	12/10/2009			
		River Bride d/s of			
Sample	Septic tank Discharge	Septic tank			
Sample Code	GT1234	GT1235			
Flow M ³ /Day	not available	not available			
pH	7.1	7.6			
Temperature ℃	No result	No result			
Conductivity uS/cm 20 °C	855	186			
Suspended Solids mg/L	68	<2.5			
Ammonia-N mg/L	44.4	<0.1			
BOD mg/L	324	2			
COD mg/L	564	<21			
TN-N mg/L	83.99	3.51			
Nitrite-N mg/L	<0.1	<0.1			
Nitrate-N mg/L	<0.5	2.57			
TP-P mg/L	9.42	<0.05			
O-PO4-P mg/L	6.22	<0.05			
SO4 mg/L	53.5	<30			
Phenols µg/L	***	No result			
Atrazine µg/L	***	No result			
Dichloromethane µg/L	<1	No result			
Simazine µg/L	***	No result			
Toluene µg/L	62.745	No result			
Tributyltin µg/L	not required	not required			
Xylenes µg/L	<0.73	No result			
Arsenic µg/L	0.3	No result			
Chromium ug/L	<20	<20			
Copper ug/L	159.8	<20			
Cyanide µg/L	<5	No result			
Fluoride µg/L	0.079	0.051			
Lead ug/L	<20	<20			
Nickel ug/L	<20	<20			
Zinc ug/L	73.6	<20			
Boron ug/L	45.1	<20			
Cadmium ug/L	<20	<20			
Mercury µg/L	<0.03	No result			
Selenium µg/L	<2.12	No result			
Barium ug/L	<20	<20			



***awaiting on results for atrazine, simazine and phenl- bottle broke in transit



Full Report for Waterbody Bride, Trib of Lee



- -



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water matters		All and and a second
Status Report		
WaterBody Category:	Subbasin Waterbody	south 🍏
WaterBody Name:	Bride, Trib of Lee	river basin district
WaterBody Code:	IE_SW_19_1709	
Overall Status Result:	Good	

	Status Element Description	Result
EX	Status from Monitored or Extrapolated Waterbody	
	Biological Elements	
Q	Macroinvertebrates (Q-Value)	Good
F	Fish	n/a
DI	Phytobenthos (Diatoms)	n/a
FPM	Status value as determined by Margartifera	n/a
	Supporting Elements	
MOR	Hydromorphology	n/a
SP	Specific Pollutants	n/a
PC	General Physico-Chemical	Pass
	Chemical Status	
PAS	Chemical Status	n/a
	Overall Ecological States	
0	Overall Ecological Status	Good



Risk Report

WaterBody Category:	Subbasin Waterbody			
WaterBody Name:	Bride, Trib of Lee			
WaterBody Code:	IE_SW_19_1709			
Overall Risk Result:	2b Not At Risk			



Date Reported to Europe: 22/12/2008 Date Report Created 12/08/2009

south western

wat	er matters		
	Morphological Risk Sources		
RM1	Channelisation (2008)	2b	Not At Risk
RM2	Embankments (2008)	2b	Not At Risk
RM3	Impoundments	2b	Not At Risk
RM4	Water Regulation	2b	Not At Risk
RMO	Morphology Overall - Worst Case (2008)	2b	Not At Risk
	Q/RDI or Point/Diffuse		
QPD	Q class/EPA Diffuse Model or worst case of Point and Diffuse (2008)	2b	Not At Risk
	Hydrology		
RHY1	Water balance - Abstraction	2b	Not At Risk
	Overall Risk		•
RA	Rivers Overall - Worst Case (2008)	2b	Not At Risk

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Basic Measures Repor	t
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WaterBody Category:	Subbasin Waterbody
WaterBody Name:	Bride, Trib of Lee
WaterBody Code:	IE_SW_19_1709



south western



	Point discharges to waters from municipal and industrial sources	Result
PINDDIS	Is there one or more industrial discharge (Section 4 licence issued by the local authority or IPPC licence issued by the EPA) contained within the water body?	Yes
PINDDISR	Are there industrial discharges (Section 4 licence issued by the local authority or IPPC licence issued by the EPA) that cause the receiving water to be 'At Risk' within the water body?	No
PB1	Basic Measure 1 - Measures for improved management.	Yes
PB2	Basic Measure 2 - Optimise the performance of the waste water treatment plant by the implementation of a performance management system.	No
PB3	Basic Measure 3 - Revise existing Section 4 license conditions and reduce allowable pollution load.	No
PB4	Basic Measure 4 - Review existing IPPC license conditions and reduce allowable pollution load.	No
PB5	Basic Measure 5 - Investigate contributions to the collection system from unlicensed discharges.	Yes
PB6	Basic Measure 6 - Investigate contributions to the collection system of specific substances known to impact ecological status.	Yes
PB7	Basic Measure 7 - Upgrade WWTP to increase capacity.	Yes
PB8	Basic Measure 8 - Upgrade WWTP to provide nutrient removal treatment.	No
PS1	Supplementary Measure $\widehat{\mathbf{M}}$ - Measures intended to reduce loading to the treatment plant.	No
PS2	Supplementary Measure 2 - Impose development controls where there is, or is likely to be in the future, insufficient capacity at treatment plants.	No
PS3	Supplementary Measure 3 - Initiate investigations into characteristics of treated wastewater for parameters not presently required to be monitored under the urban wastewater treatment directive.	No
PS4	Supplementary Measure 4 - Initiate research to verify risk assessment results and determine the impact of the discharge.	No
PS5	Supplementary Measure 5 - Use decision making tools in point source discharge management.	No
PS6	Supplementary Measure 6 - Install secondary treatment at plants where this level of treatment is not required under the urban wastewater treatment directive.	No
PS7	Supplementary Measure 7 - Apply a higher standard of treatment (stricter emission controls) where necessary.	No

wate	r matters			
PS8	Supplementary Measure 8 - Upgrade the plant to remove specific No substances known to impact on water quality status.			
PS9	Supplementary Measure 9 -	Install ultra-violet or similar type treatment.	No	
PS10	Supplementary Measure 10 -	Relocate the point of discharge.	No	

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	Physical Modifications Supplementary Measures	Applicable				
	Reduce					
SM1	Codes of Practice	Yes				
SM2	Support for voluntary initiatives	Yes				
	Remediate					
SM3	Channelisation impact remediation schemes	No				
SM4	Channelisation investigation	No				
SM5	Overgrazing remediation No					
SM6	Impassable barriers, impact confirmed, investigation into No feasibility of remediation required					
SM7	Impassable barriers investigation of the second sec					
	Consent of convited to where the owner performed to the convict of the owner performed to the owner performed to the owner performance of the owne					



	Supplementary Measures for	Applicable
	Unsewered Properties	
SP1	Amend building regulations	Yes
SP2	Establish certified expert panels for site investigation and certification of installed systems	Yes
SP3	Assess applications for new unsewered systems by applying risk mapping/decision support systems and codes of practice	Yes
SP4	Carry out an inspection programme in prioritised locations for existing systems and record results in an action tracking system	No
SP5	Enforce requirements for percolation	No
SP6	Enforce requirements for de-sludging	Yes
SP7	Consider connection to municipal systems on the and th	No
	Consent of convisit on	



	Forestry Measures for	Applicable
	Forestry	
SF1	Management Instruments - Ensure regulations and guidance are cross referenced and revised to incorporate proposed measures	No
SF2	Acidification - Avoid or limit afforestation on 1st and 2nd order stream catchments in acid sensitive areas	No
SF3	Acidification - Revise the Acidification Protocol to ensure actual minimum alkalinities are detected and revise boundary conditions for afforestation in acid sensitive areas	No
SF10	Pesticide Use - Pre-dip trees in nurseries prior to planting out	No
SF11	Pesticide Use - Maintain registers of pesticide use	No
SF12	Acidification - Restructure existing forests to include open space and structural diversity through age classes and species mix, including broadleaves	No
SF13	Acidification - Mitigate acid impacts symptomatically using basic material	No
SF14	Acidification - Manage catchment drainage to increase residence times and soil wetting	No
SF15	Acidification - Implement measures to increase stream production.	No
SF16	Eutrophication - Establish riparian zone management prior to clearfelling	No
SF17	Eutrophication and Sedimentation - Enhance sediment control	No
SF18	Eutrophication - Manage catchment drainage to increase residence times and soil wetting, including no drainage in some locations	No
SF19	Sedimentation - Establish riparian zone management prior to clearfelling	No
SF20	Sedimentation - Enhance sediment control	No
SF21	Sedimentation - Manage catchment drainage to increase residence times and soil wetting, including no drainage in some locations	No
SF22	Hydromorphology - Enhance drainage network management, minimise drainage in peat soils	No
SF23	Pesticide Use - Develop biological control methods	No

Date Reported to Europe: 22/12/2008

Date Report Created 12/08/2009

water matt	ers	
SF4	Eutrophication and Sedimentation - Avoid or limit forest cover on peat sites	No
SF5	Eutrophication and Sedimentation - Change the tree species mix on replanting	No
SF6	Eutrophication and Sedimentation - Limiting felling coup size	No
SF7	Eutrophication and Sedimentation - Establish new forest structures on older plantation sites	No
SF8	Hydromorphology - Audit existing drainage networks in forest catchments	No
SF9	Pesticide Use - Reduce pesticide usage	No

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Attachment G.1. Capital Investment Programme

Cork County

Water Services Investment Programme 2007 - 2009

Schemes at Construction	ws	Est. Cost	Schemes to start 2009 contd.	W/S	Est. Cost
Cork North			Oark South		
Mitchelstown Sewerage Scheme			Rationalis Severage Scheme (Liberade) (3)		22 348.000
(Nutrient Removal)	s	221,000	Code Lower Hathour Severane Science (and Conscious)	ene	73.542.000
			Champage (Campage 19 all of the Councers Colores	e	3 700 000
Cork South			Sharnayary Garrywar Garyou on Servinge Science	0	4 100 000
Ballyvourney/ Ballymakeery Sewerage Scheme	S	3,049,000	Youghal Sewerage Scheme	8	14,420,000
Cobh/ Midleton/ Camglwohill Water Supply Scheme	w	10,135,000	and the second sec		
Cork Lower Harbour Sewerage Scheme			Cork West		
(Croashevien SS) (G)	8	4,850,000	Ballydehob Sewerage Scheme	S	653,000
Cork Water Strategy Study (G)		941,000	Barity Water Supply Scheme	W	14,935,000
Midiator Severage Scheme (Infiltration Reduction) //3	i e	2 078 000	Clonakity Sewarage Scheme (Plant Capacity Increase)	S	3,677,000
anderen bewenage ochenne finnissionin nederlenin for	10	41 221 000	Courtmacsheny/ Timdeague Sewerage Scheme	s	2,472,000
Schemes to start 2007		41,214,000	Durmanway Regional Water Supply Scheme Stage 1	W	12,689,000
					164,629,000
Cork North			Serviced Land Initiative		
North Cork Grouped DBO Wastewater Treatment					
Plant (Buttevant, Doneralle & Kibrin)	s	5,150,000	Cork North		
			Balkdouth Water Stock Scheme	W	130.000
Cork West			Baldonday Important Colore	We	10000
Skibbereen Sewerage Scheme	s	20,000,000	carry outry inprovement scheme	nia -	iaituu
		25,150,000	Brogrit Haltigoggin Sewerage Sonega	8	405,000
Schemes to start 2008			Bweeng Water Supply Scheme 5	w	115,000
			Churchtown Sewerage Scherke (Ind. Water)	WIS	543,000
Cork North			Condulare Sewage Treat Plant	S	417,000
Mallow/ Ballyvinter Regional Water Supply Scheme (H	0W	8,652,000	Freemount Savarage Scheme	8	150,000
Mallow Sewerage Scheme (H)	8	5,408,000	Pike Road Severage Scheme (Ind. Water)	WIS	2,080,000
			Rathdomac Geweiage Scheme (nol. Water)	WIS	555,000
Consider Courses Colores (Mitclast Demously (C)		010.000	Sta Gat Sewarage Scheme	s	736,000
Batincong dewenage dolerne (reuriers menoval) (d) Batincons Courses Colores	e .	1 000 000	Lplecis Ferricy Severage Scheme (nd. Wate)	WIS	1,174,000
Bandho Sewerana Scheme Dage 2	6	14 77910	(httograsshill Water Supply Scheme (nd. Severage) (G)	WIS	4.151.000
City Environs (CASP) Strategic Study (G)	ŝ	e si			
Clochroe Sewerage Scheme (Upgrade)	8	·	Cork South		
Coachford Water Supply Scheme	W.	1 1.00.000	Ballandia Sawaran Schame (Ban/s Dri Fa Jaori		
Garrettstown Sewerage Scheme	Ŷ	2 153.000	Characterized and the loss of the run of the	~	
Inniscarra Water Treatment Plant Extension Phase 1	W	2,678,000	sidm Linanage) (a)	0	1, 164,000
Little Island Sewerage Scheme (G)	, or	2,200,000	Beigodey Water Supply Scheme (Incl. Sewerage)	WIS	2,913,000
a de la companya de l	al .		Barney Water Supply Scheme (Ext. to Station Rd) (G)	w	416,000
and the second	, 		Carrigtwohll/Sewerage Scheme (Treatment and		
Cork West			Storm Drain) (G)	8	7,632,000
Banity Sewerage Scheme	S	7,148,000	Castematy: Watewater Textment Plant Edension	S	1,200,000
Dunmanway Sewerage Scheme	S	2,153,000	Crockstown Sewerage Scheme (Indi Water)	W/S	1,200,000
Leap/ Baltimore Water Supply Scheme	W	6,365,000	Dripsey Water Supply Scheme (ind. Sewerage)	WIS	1,112,000
Schull Water Supply Scheme	W	5,253,000	Giturthane Sewerage Scheme (G)	8	1,576,000
		61,137,000	Instantion Severage Scheme	S	277,000
Schemes to start 2009			Inrishanron Wastewater Treatment Plant	8	694,000
Part North			Kenyoke Severage Scheme	8	822.000
Cork norm	-		Kenneke Water Sumiv Scheme	W	495,000
Conna Regional Water Supply Scheme	w	2,627,000	Kills and Washerster Texture & Direct Duters ins	0	1 000 000
Code NE Mater Grande Scheme		4 905 000	Manager massive and a second state of the second state	1410	(au)ou
Cork NW Regional Water Supply Scheme	w	6.016.000	Nabagin waxe' supply signerine (induces sewerage)	WIS .	465,000
Willstreet Wastewater Treatment Plant (Uncrade)	s	1 628,000	Kileens Sewerage Scheme	S	420,000
and a second second second second	~		Kinagieury Sewerage Scheme	S	664,000
			Moleton Westewater Treatment Plant Extension	8	4,050,000

Cork County contd.

Water Services Investment Programme 2007 - 2009

Serviced Land Initiative contd.	WS	Est. Cost	Schemes to Advance through Planning cond.	W/S	Est. Cost
Cork South contal.			Cork South		
Mogedy Castlemartyr & Ladysbridge Water Supply Scheme	W	2,566,000	Carrigtwohill Sewerage Scheme (G)	s	20,000,000
Noth Cdth Sewerage Scheme (G)	s	3,193,000	Cork Sludge Management (G)	s	14,420,000
Riverstick Water Supply Scheme (incl. Severage)	WIS	525,000	Cork Water Supply Scheme (Storage - Mount Emila,		
Rochestown Water Supply Scheme	w	2,700,000	Ballincollig & Chetwind) (G)	W	8,500,000
Saleen Sewerage Scheme	S	1,051,000	Inniscama Water Treatment Plant (Sudge Treatment)(C	WE	5,356,000
Youghal Water Supply Scheme	w	2,300,000	Macroom Sewerage Scheme	8	5,150,000
			Minane Bridge Water Supply Scheme	W	1,421,000
Cork West					
Castletownshend Sewerage Scheme	s	1,576,000	Cork West		
		50,797,000	Bantry Regional Water Supply Scheme (Distribution)	W	9,455,000
Runi Towns & Vilages Initiative			Cape Clear Water Supply Scheme	W	1,679,000
			Castidownbere Regional Water Supply Scheme	W	8,405,000
Cork North			Glengamitt Severage Scheme	s	2,500,000
Butevart Sewerage Scheme (Collection System)	s	2,446,000	Roscarberry/Owenahincha Sewerage Scheme	8	1,576,000
Donerale Sewerage Scheme (Collection System)	s	1,738,000	Skibbereen Regional Water Supply Scheme Stage 4	W	7,880,000
					95,646,000
Cork South					
Imishamon (Balinadee/Balimpitie/Garatstown)			Water Conservation Allocation		12,206,000
Water Supply Scheme	W	6,726,000			
			Asset Management Study		300,000
Cork West			at the second		
Ballyi day Severage Scheme	s	2,153,000	South Western River Basin District (WFD) Project ¹		9,400,000
Baltimore Severage Scheme	s	3,162,000	to H		
Castietownbore Severage Scheme	s	5,202,000	offertat		
Schull Sewarage Scheme	s	3.523,000	Programme Total	48	5,489,000
		24,950,000	10°:10°		
Schemes to Advance through Planning		:01	Purpedr		
Cork North		cties	ne.		
Mitchelatown North Galaces Water Supply Scheme	W	Bange			
Mitchelatown Severace Scheme	8	120000			
Newmarket Severage Scheme	- fc	152000			
	- C	OX.			
	, or				

¹ This project is being led by Cork County Council of 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

CORK COUNTY COUNCIL



WATER SERVICES INVESTMENT PROGRAMME

2010 - 2012, all other

NEEDS ASSESSMENT 2009

(IN ACCORDANCE WITH CIRCULAR L6/09)



National Development Plan 2007 - 2013 Transforming Ireland Mr Noel O'Keeffe, County Engineer, Cork County Council,

Issue Date: 14th December 2009

Each Member of the Council

Re: Circular L6/09

Water Services Investment Programme 2010-2012 Needs Assessment 2009

The current Water Services Investment Programme (WSIP) covers the period 2007-2009 and the Department has commenced work on the development of the WSIP for the period 2010-2012.

Water services authorities are required to submit completed assessment of needs and to incorporate the requirements of Town Councils as an integral part of the assessment for the county.

There is a new focus on contracts for works that can go ahead in the period 2010-2012. Many schemes are made up of separate substantial contracts, some of which are more urgently required than others. The WSIP 2010-2012 will accordingly show contracts in progress; contracts to go to construction 2010-2012 and schemes that will continue in planning in the period 2010-2012 but be constructed post 2012.

The Department has identified four bread categories of need and requires authorities to prepare separate lists for each

- Category 1: Water Conservation
- Category 2: Works to respond to ECJ judgements
- Category 3: Works to meet Public Health/Environment Objectives
- Category 4: Works to support sustainable development, strategic developing areas and support employment creation.

The total investment required in water services in Cork County to meet statutory requirements in drinking water and wastewater, to establish district metering and commence initial investment in mains rehabilitation and to support key economic and employment creation objectives amounts to €629,039,034. This is made up of €269,545,717 to be expended in planning and construction in the period 2010-2012 and €359,493,317 post-2012. A relevant proportion of the planning cost for the works post 2012 is included in the 2010-2012 period.

The proposed programme highlights the significant immediate investment required to ensure that all of the Councils domestic, commercial and industrial consumers are supplied with water of the highest quality complying at all times with all statutory drinking water quality parameters. Works impacting on drinking water quality have been given a high priority. The programme identifies that there is a major backlog in works required to ensure that wastewater is adequately treated before discharge and to take account of issues arising under the Water Framework Directive. The programme proposed gives particular attention to discharges which may pose a threat to drinking water intakes.

The overall investment programme is designed to meet the Councils investment need in major capital water services and can be summarised as follows

Investment Area	Priority Objective	Contracts 2010- 2012	Works F	ost 2012
		(incl. Planning Costs)	Planning Costs 2010-2012	Planning and Construction Costs Post 2012
		А	В	С
Water Conservation	Establish District metering and Replace defective mains.	€ 30,201,179	-	Not Quantified
Drinking Water Quality	Meet Prescribed Quality Standards in Drinking Water	€ 82,556,919	, v€ 12,438,119	€ 123,976,817
	Reduce Risk to Drinking Water Sources	€ 29,818,000	€ 700,000	€ 13,300,000
Wastewater Treatment	Meet remaining statutory requirements in Wastewater Treatment and support key economic objectives.	ection pure required in the section of the section	€ 38,192,500	€ 222,216,500
	Sub-Total	€ 218,215,098	€ 51,330,619	€ 359,493,317
Programme	e Expenditure 2010-2012	A+B	€269,545,7	17
Programme	e Expenditure Post 2012	С	€359,493,3	17

The programme for the period 2010-2012 is necessarily ambitious given the scale of the deficit identified in meeting basic statutory requirements. The Council is however satisfied that it has the organisation and technical resources to meet the targets.

Attachments:

- Category 1 List
- Category 2 List
- Category 3 List
- Category 4 List

CORK COUNTY COUNCIL

WATER SERVICES INVESTMENT PROGRAMME 2010 - 2012 NEEDS ASSESSMENT 2009 (IN ACCORDANCE WITH CIRCULAR L6/09)

ASSESSMENT OF NEEDS LIST UNDER CATEGORY 3

Priority No.	Scheme Name	Contract Title	Description of Works/Outcome	Estimated Cost	Planning Estimate	Constructio n Start	Need Under Category 3	Need Under Category 4	Contracts at Construction	Contracts to go to Construction 2010-2012	Schemes/ Contracts to Advance through Planning
38	Courtmacsherry/Timoleaugue Sewerage Scheme	Courtmacsherry/Timoleaugue Sewerage Scherne	Cease untreated discharges and provide Collection System and Waste Water Treatment Plant to treat sewerage in accordance with Urban Waste Water Treatment Regulations, Bathing Water Quality Regulations.	€5,000,000.00	Incl.	Q2-12	*			*	
39	Ballingeary Sewerage Scheme	Ballingeary Sewerage Scheme	Cease discharge from overloaded septic tank and provide Appropriate Treatment in accordance with Urban Waste Water Treatment Regulations	€2,200,000.00	Incl.	Q4-10	~			*	
40	Ballyvourney/Ballymakerra Sewerage Scheme	Ballyvourney/Ballymakerra Sewerage Scherne	Cease discharge from overloaded septic tanks and provide Appropriate Treatment in accordance with Urban Waste Water Treatment Regulations	€1,800,000.00	Incl.	Q4-10	~			*	
41	Innishannon Sewerage Scheme	Innishannon Sewerage Scheme	Cease untreated discharges and provide Waste Water Treatment Plant to treat sewerage in accordance with Urban Waste Water Treatment Regulations. Provide minor collection system upgrades	€2,000,000000	Incl.	Q2-11	*			*	
42	Mitchelstown Sewerage Scheme	Mitchelstown Sewerage Scheme - Nutrient Reduction & Storm Overflow	Screen Storm Water Overflow at Waste Water	€200,000.00	Inci.	Q3-10	1	-		*	
43	Newmarket Sewerage Scheme	Newmarket Sewerage Scheme - Collection System Upgrade	Upgrade and provide storm water separation in existing combined system	€5,000,000.00	Incl.	Q2-11	*			1	
44	Glenville Sewerage Scheme	Glenville Sewerage Scheme - Waste Water Treatment Plant	Provide upgrade to Waste Water Freatment Plant to treat sewerage in accordance with Urban Waste Water Treatment Regulations, Quality of Salmonid Waters Regulation	€1,632,000.00	inci.	Q1-10	~			1	
45	Crookstown Sewerage Scheme	Crookstown Sewerage Scheme - Collection System	Provide Collection System to collect existing properties	€1,600,000.00	Inci.	Q3-10	1			1	
46	Crookstown Sewerage Scheme	Crookstown Sewerage Scheme - Wastewater Treatment Plant Design / Build Contract	Cease discharges from Overloaded septic tank. Provide Waste Water Treatment Plant to treat sewerage in accordance with Urban Waste Water Treatment Regulations, Quality of Salmonid Waters Regulations. Meet requirements of EPA Section 63 Notice	€1,400,000.00	Incl.	Q3-10	*			*	
47	Crookstown WSS	Crookstown WSS	New groundwater source developed for Crookstown. Rising main, reservoir and associated pipework to be constructed. Distribution system upgraded.	€1,200,000.00	Incl.	Q3-10	*			*	
48	Dunmanway Sewerage Scheme	Dunmanway Sewerage Scheme - Collection System Upgrade Contract	Repair of existing system due to collapse, cross connections, route ingress.	€400,000.00	Incl.	Q2-11	1			*	
49	Crosshaven Sewerage Scheme	Crosshaven Sewerage Scheme	Meet condition of Foreshore licence	€330,000.00	Incl.	Q3-10	1			1	
50	Kinsale Sewerage Scheme	Kinsale Sewerage Scheme - Storm Tank	Meet Article 3 of Urban Waste Water Treatment Regulations	€1,000,000.00	Incl.	Q2-10	1			1	
51	Innishannon Regional Water Supply Scheme	Innishannon Regional Water Supply Scheme	Extension of Innishannon RWSS to Belgooly and Riverstick and replace the at risk local sources.	€1,500,000.00	Incl.	Q4-10	1	*		*	
52	Leap Baltimore Water Supply Scheme	Leap Baltimore Water Supply Scheme - Phase 1	Advanced Contract to supply water to Baltimore Village	€2,200,000.00	Incl.	Q4-10	1			*	

Agglomeration details

Leading Local Authority	Cork County Council
Co-Applicants	
Agglomeration	Crookstown
Population Equivalent	170
Level of Treatment	Primary Treatment
Treatment plant address	Bellmount Estate, Bellmount Lower, Crookstown
Grid Ref (12 digits, 6E, 6N)	142567 / 065855 (Verifed using GPS)
EPA Reference No:	

Contact details

Contact Name:	Patricia Power
Contact Address:	Water Services Section Cork County Council Je ^{se} Southern Division Carrigrohane Road Cork
Contact Number:	021-4276891 v
Contact Fax:	021-4276321
Contact Email:	patricia power@corkcoco.ie
Conserv	For invited

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

Discharge Point Code: SW-1

Local Authority Ref No:	BOL/CROO/1209
Source of Emission:	Treated Effluent
Location:	Bellmount Lower
Grid Ref (12 digits, 6E, 6N)	142567 / 065855 (Verifed using GPS)
Name of Receiving waters:	River Bride (South)
Water Body:	River Water Body
River Basin District	South Western RBD
Designation of Receiving Waters:	Good Status
Flow Rate in Receiving Waters:	0 m ³ .sec ⁻¹ Dry Weather Flow
	0 m ³ .sec ⁻¹ 95% Weather Flow
Additional Comments (e.g.	River flow data not available
commentary on zero flow or other	

Emission Details:

Emission Details.					
			x 1150.		
(i) Volume emitted			other		
Normal/day	35 m³	Maximum/dayon and	45 m³		
Maximum rate/hour	1.875 m³	Period of emission (avg)	60 min/hr	24 hr/day	365 day/yr
Dry Weather Flow	0.000405 m ³ /sec	ection net			
	Conser	Former			

Table D.1(i)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Primary Discharge Point)

Discharge Point Code: SW-1

Substance	As discharged				
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day	
рН	pН	Grab	= 9		
Temperature	°C	Grab	= 25		
Electrical Conductivity (@ 25°C)	µS/cm	Grab	= 1000		
Suspended Solids	mg/l	Grab	= 35	1.575	
Ammonia (as N)	mg/l	Grab	= 5	0.225	
Biochemical Oxygen Demand	mg/l	Grab	= 25	1.125	
Chemical Oxygen Demand	mg/l	Grab	= 125	5.625	
Total Nitrogen (as N)	mg/l	Grab	= 0	0	
Nitrite (as N)	mg/l	Grab	= 0	0	
Nitrate (as N)	mg/l	Grab	= 0	0	
Total Phosphorous (as P)	mg/l	Grab	= 4	0.18	
OrthoPhosphate (as P)	mg/l	Grab	= 3	0.135	
Sulphate (SO ₄)	mg/l	Grab	= 0	0	
Phenols (Sum)	µg/l	Grab	= 0	0	
at the second					

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µn For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. of the same tor phenols: the same tor phenol (tor phenol) (tor phenol) (tor phenol) (tor phenol) (tor ph

Table D.1(i)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS -Characteristics of The Emission (Primary Discharge Point)

Discharge Point Code: SW-1

Substance	As discharged						
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day			
Atrazine	µg/l	Grab	= 0	0			
Dichloromethane	µg/l	Grab	= 0	0			
Simazine	µg/l	Grab	= 0	0			
Toluene	µg/l	Grab	= 0	0			
Tributyltin	μg/l	Grab	= 0	0			
Xylenes	µg/l	Grab	= 0	0			
Arsenic	µg/l	Grab	= 0	0			
Chromium	µg/l	Grab	= 0	0			
Copper	µg/l	Grab	= 0	0			
Cyanide	µg/l	Grab	= 0	0			
Flouride	µg/l	Grab	= 0	0			
Lead	µg/l	Grab	= 0	0			
Nickel	µg/l	Grab	= 0	0			
Zinc	µg/l	Grab	= 0	0			
Boron	µg/l	Grab	چ :0	0			
Cadmium	µg/l	Grab 🔬	= 0	0			
Mercury	µg/l	Grab di dott	= 0	0			
Selenium	µg/l	Grab only all	= 0	0			
Barium	µg/l	Grab	= 0	0			
OR PHILE CHILE							

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper For Phenols: USEPA Method 604, AWWA Standard Method 6246 Brequivalent. TABLE E.1(i): WASTE WATER FREQUENCY AND QUANTITY OF DISCHARGE – Primary and Secondary Discharge Points

Identification Code for Discharge point	Frequency of discharge (days/annum)	Quantity of Waste Water Discharged (m³/annum)	
SW-1	365	12775	

Consent of copyright owner required for any other use.

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

Identification Code for Discharge point	Frequency of discharge (days/annum)	Quantity of Waste Water Discharged (m³/annum)	Complies with Definition of Storm Water Overflow
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TABLE F.1(i)(a): SURFACE/GROUND WATER MONITORING

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1d
Grid Ref (12 digits, 6E, 6N)	142511 / 065783

Parameter		Results (mg/l)			Sampling method	Limit of Quantitation	Analysis method / technique
	01/01/09	12/10/09					
рН		= 7.6			Grab	2	Electrochemic al
Temperature	= 0				Grab	0.5	Electrochemic al
Electrical Conductivity (@ 25°C)		= 186			Grab	0.5	Electrochemic al
Suspended Solids		< 2.5			Grab	0.5	Gravimetric
Ammonia (as N)		< 0.1			Grab	0.02	Colorimetric
Biochemical Oxygen Demand		= 2			Grab	0.06	Electrochemic al
Chemical Oxygen Demand		< 21		. 150.	Grab	8	Digestion & Colorimetric
Dissolved Oxygen	= 0			thet	Grab	0.2	ISE
Hardness (as CaCO₃)	= 0			ta ta	Grab	1	Titrimteric
Total Nitrogen (as N)		= 3.51	0 0 0	for	Grab	0.5	Digestion & Colorimetric
Nitrite (as N)		< 0.1	ourpoutite		Grab	0.1	Colorimetric
Nitrate (as N)		= 2.57	ion & ret		Grab	0.5	Colorimetric
Total Phosphorous (as P)		< 0.05	SPectrowne		Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)		< 0.05	1185 1185		Grab	0.02	Colorimetric
Sulphate (SO ₄)		< 30	·		Grab	30	Turbidimetric
Phenols (Sum)	= 0	ator			Grab	0.1	GC-MS2
		Conser					

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments: default of 01/01/09 and 0 where no results are available

TABLE F.1(i)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1d
Grid Ref (12 digits, 6E, 6N)	142511 / 065783

Parameter		Results (µg/l)			Sampling method	Limit of Quantitation	Analysis method / technique
	01/01/09	12/10/09					
Atrazine	= 0				Grab	0.96	HPLC
Dichloromethane	= 0				Grab	1	GC-MS1
Simazine	= 0				Grab	0.01	HPLC
Toluene	= 0				Grab	0.02	GC-MS1
Tributyltin	= 0				Grab	0.02	GC-MS1
Xylenes	= 0				Grab	1	GC-MS1
Arsenic	= 0				Grab	0.96	ICP-MS
Chromium		< 20			Grab	20	ICP-OES
Copper		< 20			Grab	20	ICP-OES
Cyanide	= 0			e.	Grab	5	Colorimetric
Flouride		= 51		net	Grab	100	ISE
Lead		< 20		N. NOR	Grab	20	ICP-OES
Nickel		< 20	6	1 311 3	Grab	20	ICP-OES
Zinc		< 20	50° 3	XIO .	Grab	20	ICP-OES
Boron		< 20	NITPOLITE		Grab	20	ICP-OES
Cadmium		< 20	ion et rees		Grab	20	ICP-OES
Mercury	= 0		Dectawine		Grab	0.2	ICP-MS
Selenium	= 0	a de la companya de la	P. oft		Grab	0.74	ICP-MS
Barium		< 20	Sec.		Grab	20	ICP-OES
		500	•				

Additional Comments: TBT value is 0.02ug/l as an default of 01/01/09 and 0 where no results are available, TBT testing not required

Annex 2: Check List For Regulation 16 Compliance

Regulation 16 of the waste water discharge (Authorisation) Regulations 2007 (S.I. No. 684 of 2007) sets out the information which must, in all cases, accompany a discharge licence application. In order to ensure that the application fully complies with the legal 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 contains(s) the information requested in the appropriate sub-article.

Regulat In the c	ion 16(1) ase of an application for a waste water discharge licence, the application shall -	Attachment Number	Checked by Applicant
(a)	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 or principal office,		Yes
(b)	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,		Yes
(c)	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,		Yes
(d)	state the population equivalent of the agglomeration to which the application relates,		Yes
(e)	specify the content and extent of the waste water discharge, the level of treatment provided, if any, and the flow and type of discharge,		Yes
(f)	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.	p.	Yes
(g)	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,		Yes
(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,		Yes
(i)	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,		Yes
(j)	give particulars of the nearest downstream drinking water abstraction point or points to the discharge point or points,		Yes
(k)	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 or eliminate or, where that is not practicable, to limit any pollution caused in such discharges,		Yes
(I)	give detail of compliance with relevant monitoring requirements and treatment standards contained in any applicable Council Directives of Regulations,		Yes
(m)	give details of any work necessary to meet relevant effluent discharge standards and a timeframe and schedule for such work.		Yes
(n)	Any other information as may be stipulated by the Agency.		Yes
Regulat Without accomp	ion 16(3) prejudice to Regulation 16 (1) and (2), an application for a licence shall be anied by -	Attachment Number	Checked by Applicant
(a)	a copy of the notice of intention to make an application given pursuant to Regulation 9.		Yes
(b)	where appropriate, a copy of the notice given to a relevant water services authority under Regulation 13,		Yes
(c)	Such other particulars, drawings, maps, reports and supporting documentation as are necessary to identify and describe, as appropriate -		Yes
(c) (i)	the point or points, including storm water overflows, from which a discharge or discharges take place or are to take place, and		Yes
(c) (ii)	the point or points at which monitoring and sampling are undertaken or are to be undertaken,		Yes
(d)	such fee as is appropriate having regard to the provisions of Regulations 38 and 39.		Yes

Regulation 16(4) An original application shall be accompanied by 2 copies of it and of all accompanying documents and particulars as required under Regulation 16(3) in hardcopy or in an electronic or other format as specified by the Agency.		Attachment Number	Checked by Applicant
1	An Original Application shall be accompanied by 2 copies of it and of all accompanying documents and particulars as required under regulation 16(3) in hardcopy or in electronic or other format as specified by the agancy.		Yes
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, be submitted in an electronic or other format specified by the Agency.		Attachment Number	Checked by Applicant
1	Signed original.		Yes
2	2 hardcopies of application provided or 2 CD versions of application (PDF files) provided.		Yes
3	1 CD of geo-referenced digital files provided.		Yes
Regulation 17 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 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		Attachment Number	Checked by Applicant
3	2 CD versions of EIS, as PDF files, provided.		Yes
1	EIA provided if applicable		Yes
2	2 hardcopies of EIS provided if applicable.		Yes
Regulation 24 In the case of an application for a waste water discharge certificate of authorisation, the application shall –		Attachment Number	Checked by Applicant
(a)	give the name, address, telefax number (if any) and telephone number of the applicant and the address to which correspondence relating to the application should be sent and, if the operator of the waste water works is a body corporate, the address of its registered office or principal office	p.	Yes
(b)	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,		Yes
(c)	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 discharge point or points to which the application relates,		Yes
(d)	state the population equivalent of the agglomeration to which the application relates,		Yes
(e)	in the case of an application for the review of a certificate, specify the reference number given to the relevant certificate in the register,		Yes
(f)	specify the content and extent of the waste water discharge, the level of treatment provided and the flow and type of discharge,		Yes
(g)	give details of the receiving water body, 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 or likely to be affected by the discharge concerned,		Yes
(h)	identify monitoring and sampling points and indicate proposed arrangements for the monitoring of discharges and of the likely environmental consequences of any such discharges,		Yes
(i)	in the case of an existing discharge, specify the sampling data pertaining to the discharge based on the samples taken in the 12 months preceding the making of the application,		Yes
(j)	describe the existing or proposed measures, including emergency procedures, to prevent unauthorised or unexpected waste water discharges and to minimise the impact on the environment of any such discharges,		Yes
(k)	give particulars of the location of the nearest downstream drinking water abstraction point or points to the discharge point or points associated with the waste water works,		Yes
(I)	give details of any designation under any Council Directive or Regulations that apply in relation to the receiving waters,		Yes
(m)	give details of compliance with any applicable monitoring requirements and treatment standards,		Yes
(n)	give details of any work necessary to meet relevant effluent discharge standards and a timeframe and schedule for such work,		Yes
(o)	give any other information as may be stipulated by the Agency, and		Yes
(p)	be accompanied by such fee as is appropriate having regard to the provisions of Regulations 38 and 39.		Yes