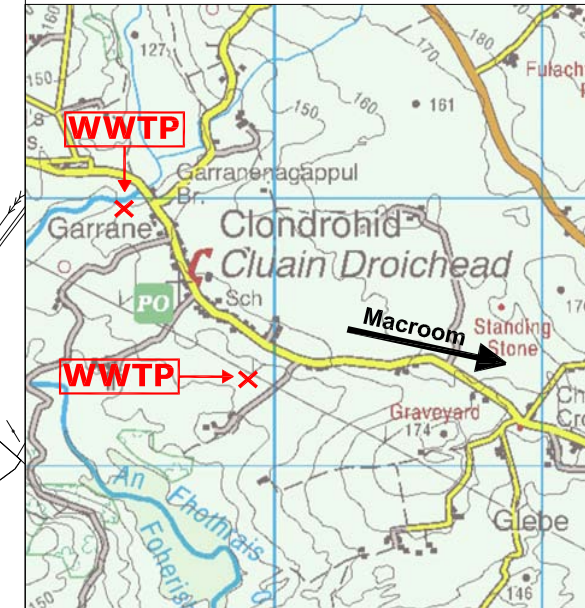
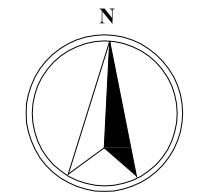


**NOTES:**

1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council CCMA 2004/07. Unauthorised reproduction infringes Ordnance Survey Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
3. All levels refer to Ordnance Survey Datum, Malin Head.
4. DO NOT SCALE, use figured dimensions only, if in doubt ask.



**Key Map**  
Not to Scale  
OS Number: 1206



Rev.	Date	By	Description

**CORK COUNTY COUNCIL**  
SOUTHERN DIVISION

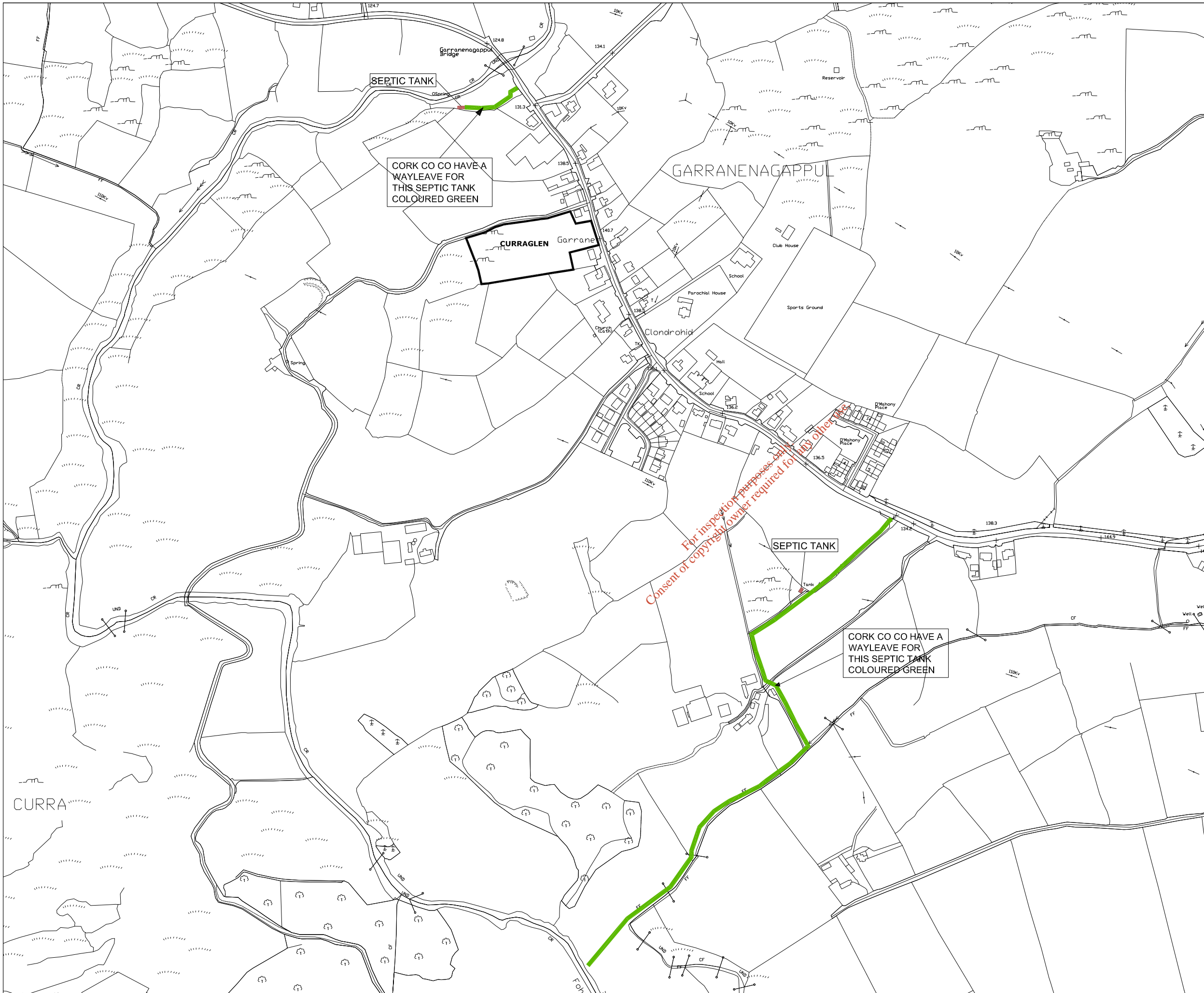
Noel O Keefe, B.E. C.Eng. Eur. Ing F.I.E.I.M.I.C.E. County Engineer  
County Hall, Cork.

Patricia Power, Director of Services,  
Area Operations South

Project: CLONDROHID WWTP  
WASTE WATER  
DISCHARGE LICENCE APPLICATION

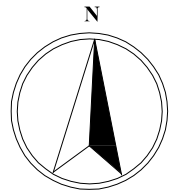
Title: Application Form  
Attachment A1\_Map1  
Location Plan of Waste Water Treatment Plant

Designed: ER	Checked: MH	Scales: 1:5,000 @ A3	Drawing No: A1_Map1
Drawn: MM	Approved: MH	Date: Nov '09	Rev: 0
File Path:			Status: —




**NOTES:**

1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council CCMA 2004/07. Unauthorised reproduction infringes Ordnance Survey Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
3. All levels refer to Ordnance Survey Datum, Malin Head.
4. DO NOT SCALE, use figured dimensions only, if in doubt ask.



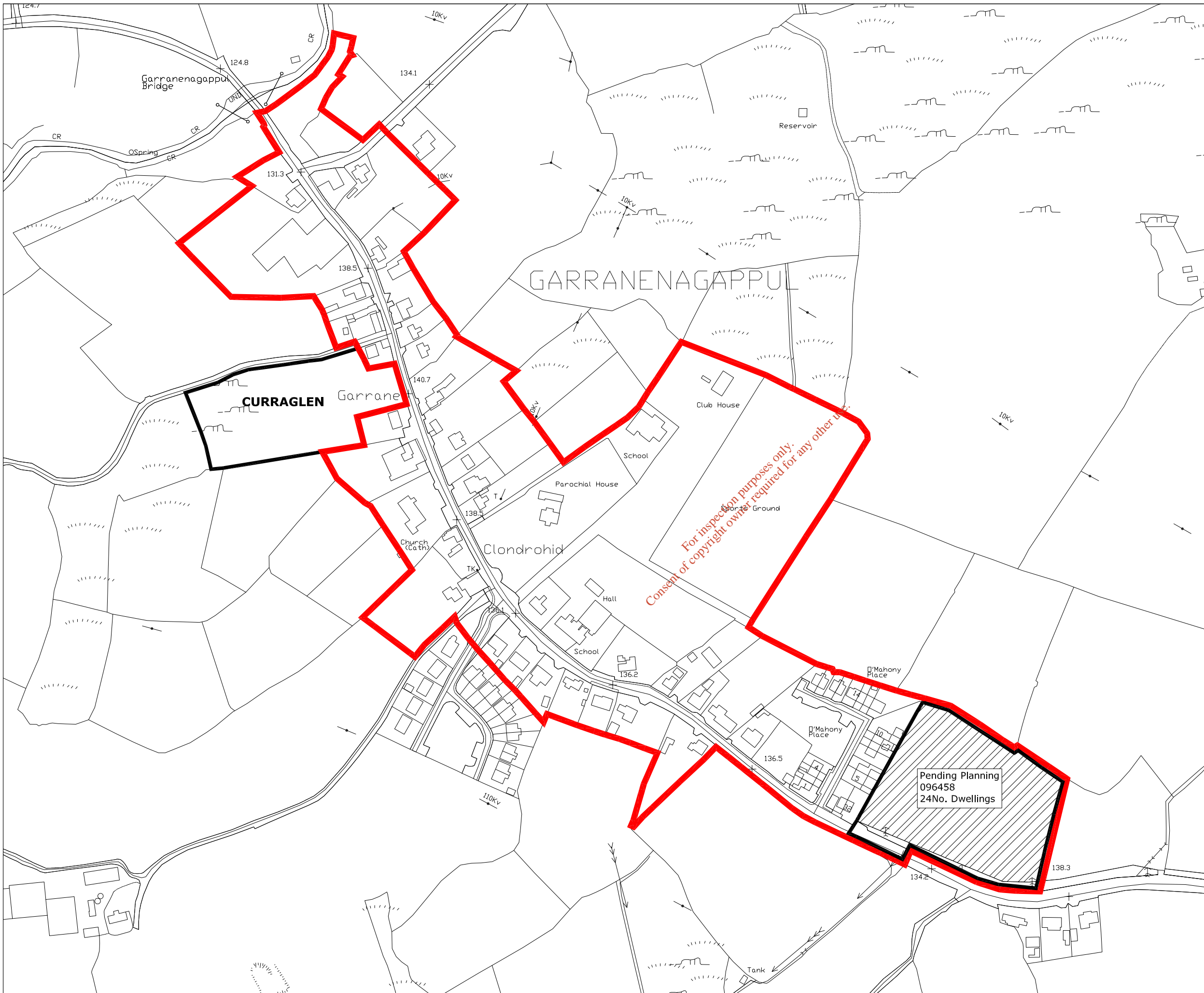
Rev.	Date	By	Description


**CORK COUNTY COUNCIL**  
**SOUTHERN DIVISION**  
 Noel O'Keefe, B.E. C.Eng. Eur. Ing. F.I.E.I.M.I.C.E. County Engineer  
 Patricia Power, Director of Services, Area Operations South  
 County Hall, Cork.

Project: CLONDROHID WWTP  
 WASTE WATER  
 DISCHARGE LICENCE APPLICATION

Title: Application Form  
 Attachment A1\_Map2  
 Location Plan of Waste Water Treatment Plant

Designed: ER	Checked: MH	Scales: 1:5,000 @ A3	Drawing No: A1_Map2
Drawn: MM	Approved: MH	Date: Nov '09	Rev: 0
File Path:			Status: —

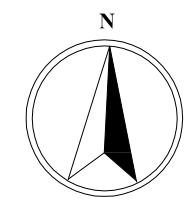


For inspection purposes only.  
Consent of copyright owner required for any other use.

**NOTES:**

1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council CCMA 2004/07. Unauthorised reproduction infringes Ordnance Survey Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
3. All levels refer to Ordnance Survey Datum, Malin Head.
4. DO NOT SCALE, use figured dimensions only, if in doubt ask.

**AGGLOMERATION BOUNDARY**



Rev.	Date	By	Description

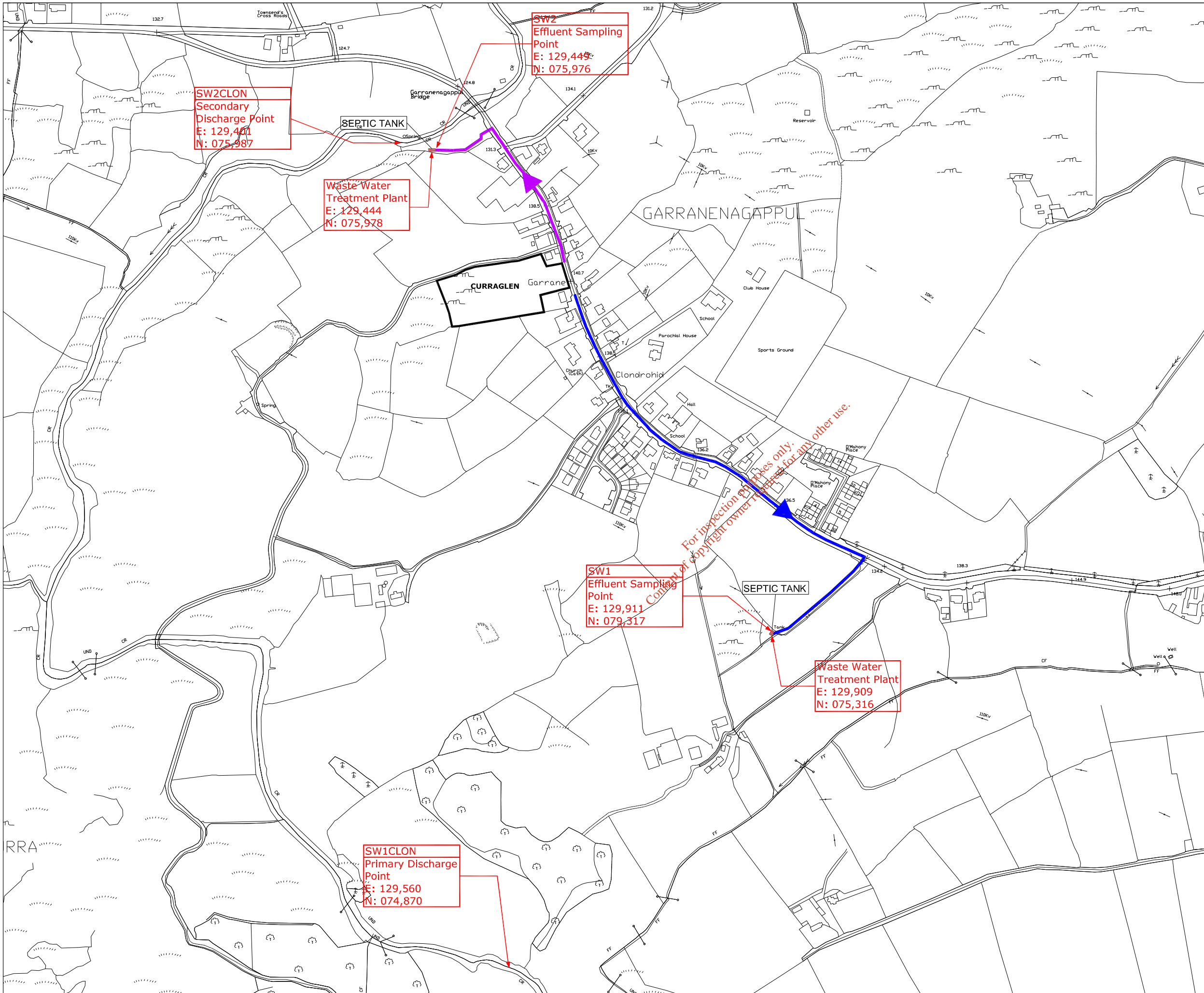
**CORK COUNTY COUNCIL**  
**SOUTHERN DIVISION**

Noel O'Keefe, B.E. C.Eng. Eur. Ing. F.I.E.I.M.I.C.E. County Engineer  
County Hall, Cork. Patricia Power, Director of Services,  
Area Operations South

Project: **CLONDROHID WWTP  
WASTE WATER  
DISCHARGE LICENCE APPLICATION**



Title: **Application Form  
Attachment B1\_Map3  
Agglomeration Boundary Served By  
Waste Water Treatment Works**

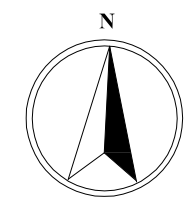
Designed: ER	Checked: MH	Scales: 1:3,000 @ A3	Drawing No:
Drawn: MM	Approved: MH	Date: Nov '09	<b>B1_Map3</b>
File Path:	Status: —	Rev: 0	




**NOTES:**

1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council CCMA 2004/07. Unauthorised reproduction infringes Ordnance Survey Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
3. All levels refer to Ordnance Survey Datum, Malin Head.
4. DO NOT SCALE, use figured dimensions only, if in doubt ask.

 **Network 1 (South)**  
 **Network 2 (North)**

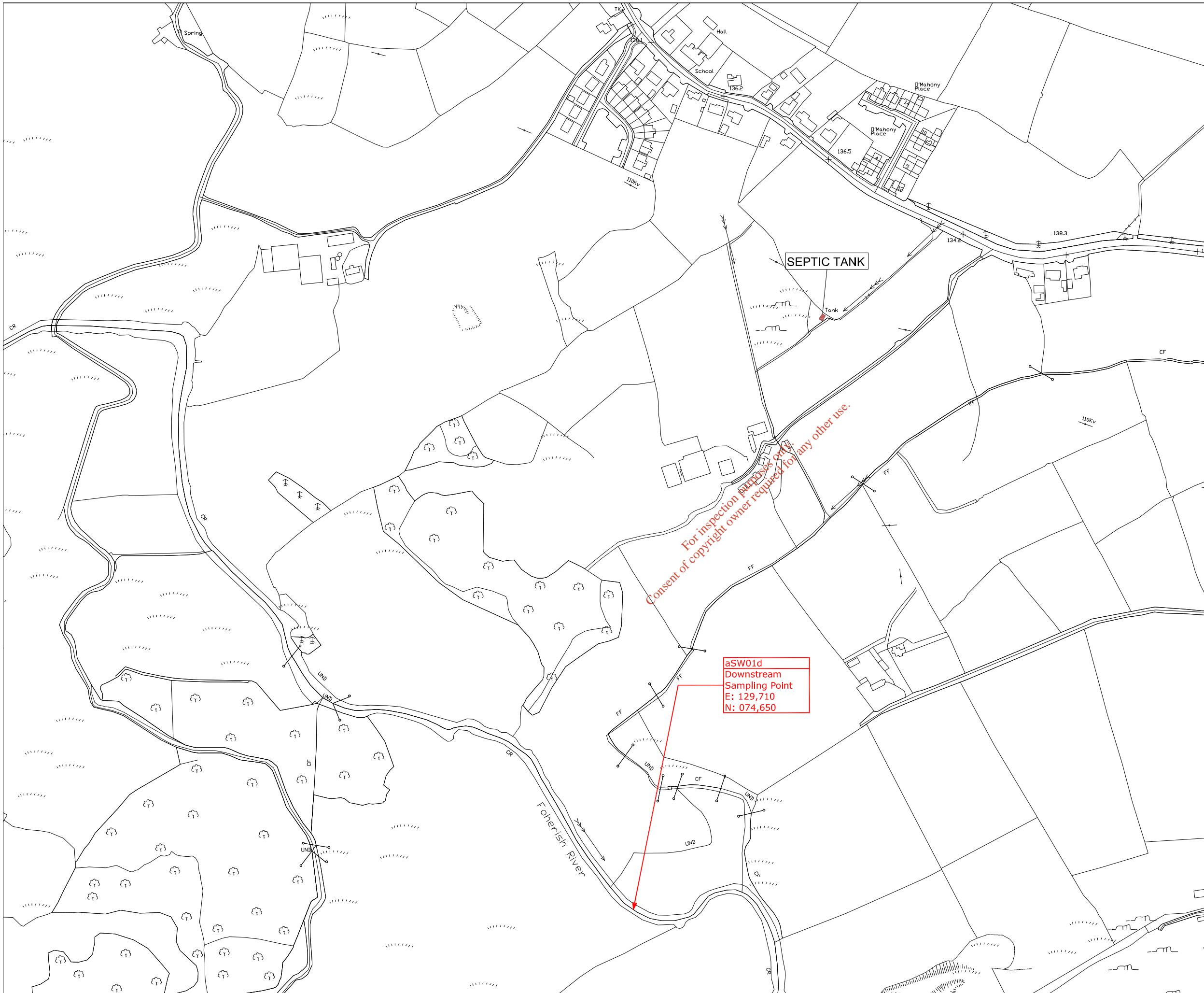


Rev.	Date	By	Description

 **CORK COUNTY COUNCIL**  
**SOUTHERN DIVISION**  
 Noel O Keefe, B.E. C.Eng. Eur. Ing F.I.E.I.M.I.C.E. County Engineer  
 Patricia Power, Director of Services, Area Operations South  
 County Hall, Cork.

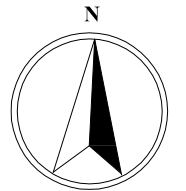
Project: **CLONDROHID WWTP WASTE WATER DISCHARGE LICENCE APPLICATION**  
 Title: **Application Form Attachment B2\_Map4 Location Plan of Waste Water Treatment Plant**

Designed: ER	Checked: MH	Scales: 1:5,000 @ A3	Drawing No: B2_Map4
Drawn: MM	Approved: MH	Date: Nov '09	Status: — Rev: 0




**NOTES:**

1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council CCMA 2004/07. Unauthorised reproduction infringes Ordnance Survey Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
3. All levels refer to Ordnance Survey Datum, Malin Head.
4. DO NOT SCALE, use figured dimensions only, if in doubt ask.



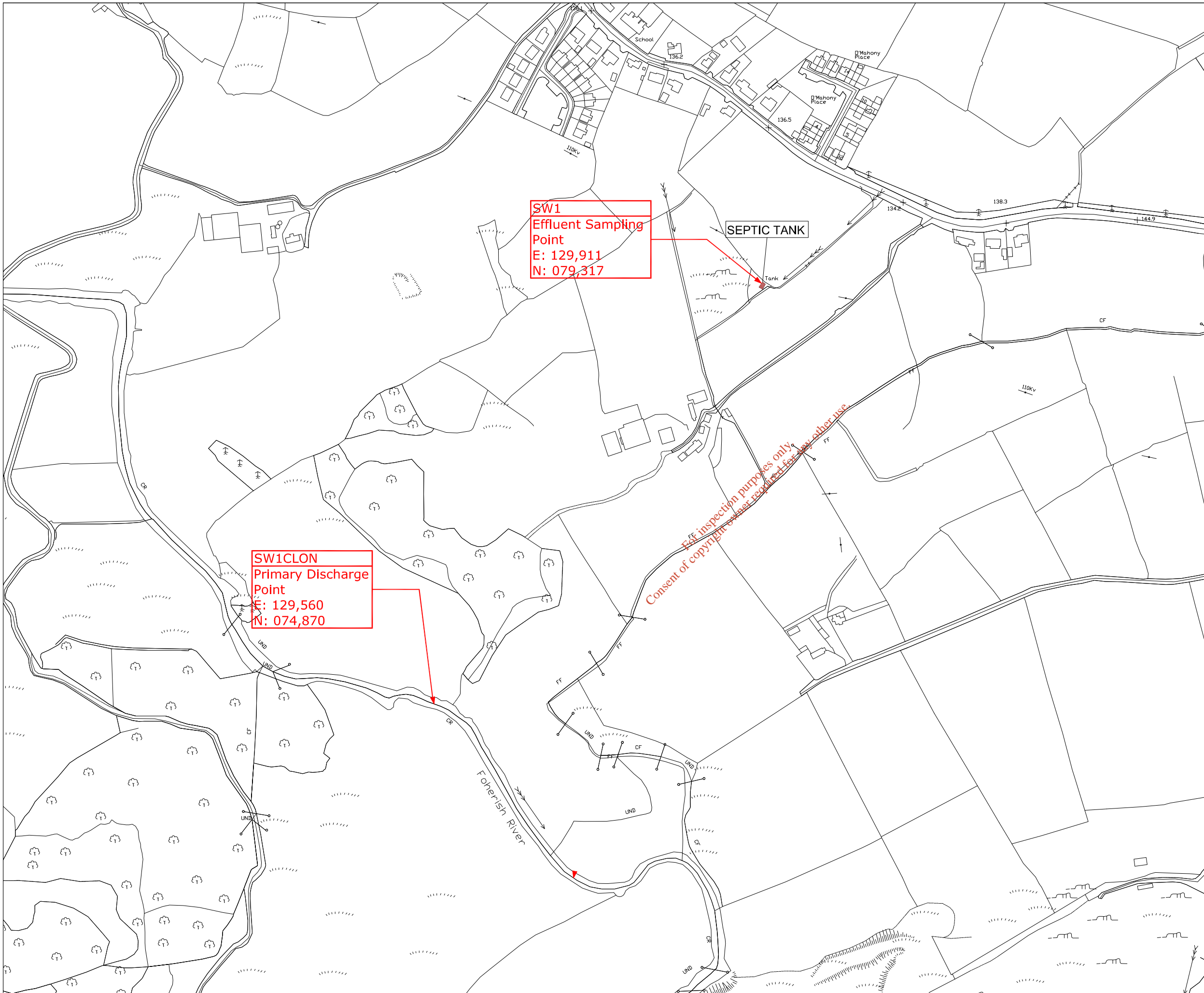
Rev.	Date	By	Description


**CORK COUNTY COUNCIL**  
**SOUTHERN DIVISION**  
 Noel O'Keefe, B.E. C.Eng. Eur. Ing. F.I.E.I.M.I.C.E.    Patricia Power,  
 County Engineer    Director of Services,  
 County Hall, Cork.    Area Operations South

Project: CLONDROHID WWTP  
 WASTE WATER  
 DISCHARGE LICENCE APPLICATION

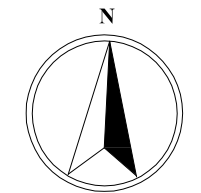
Title: Application Form  
 Attachment B2\_Map5  
 Location of Downstream Monitoring Point

Designed: ER	Checked: MH	Scales: 1:4,000 @ A3	Drawing No:
Drawn: MM	Approved: MH	Date: Nov '09	B2_Map5
File Path:	Status: —	Rev: 0	




**NOTES:**

1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council CCMA 2004/07. Unauthorised reproduction infringes Ordnance Survey Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
3. All levels refer to Ordnance Survey Datum, Malin Head.
4. DO NOT SCALE, use figured dimensions only, if in doubt ask.



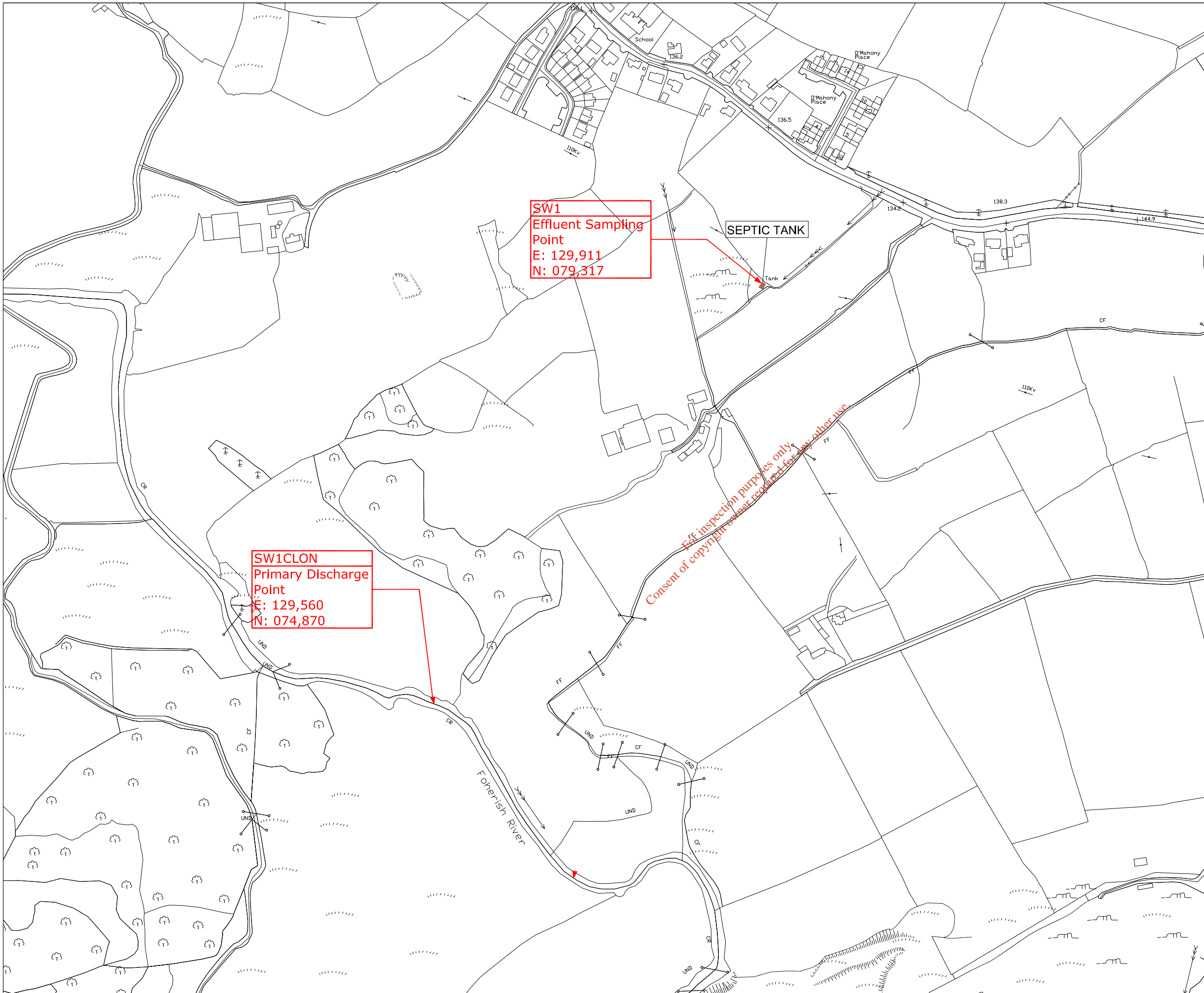
Rev.	Date	By	Description


**CORK COUNTY COUNCIL**  
**SOUTHERN DIVISION**  
 Noel O'Keefe, B.E. C.Eng. Eur. Ing F.I.E.I.M.I.C.E.    Patricia Power,  
 County Engineer    Director of Services,  
 County Hall, Cork.    Area Operations South

Project: CLONDROHID WWTP  
 WASTE WATER  
 DISCHARGE LICENCE APPLICATION

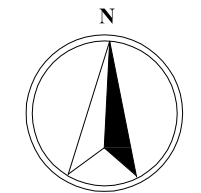
Title: Application Form  
 Attachment B3\_Map6  
 Location of Primary Discharge Point

Designed: ER	Checked: MH	Scales: 1:4,000 @ A3	Drawing No:
Drawn: MM	Approved: MH	Date: Nov '09	B3_Map6
File Path:	Status: —	Rev: 0	




**NOTES:**

1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council CCMA 2004/07. Unauthorised reproduction infringes Ordnance Survey Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
3. All levels refer to Ordnance Survey Datum, Malin Head.
4. DO NOT SCALE, use figured dimensions only, if in doubt ask.



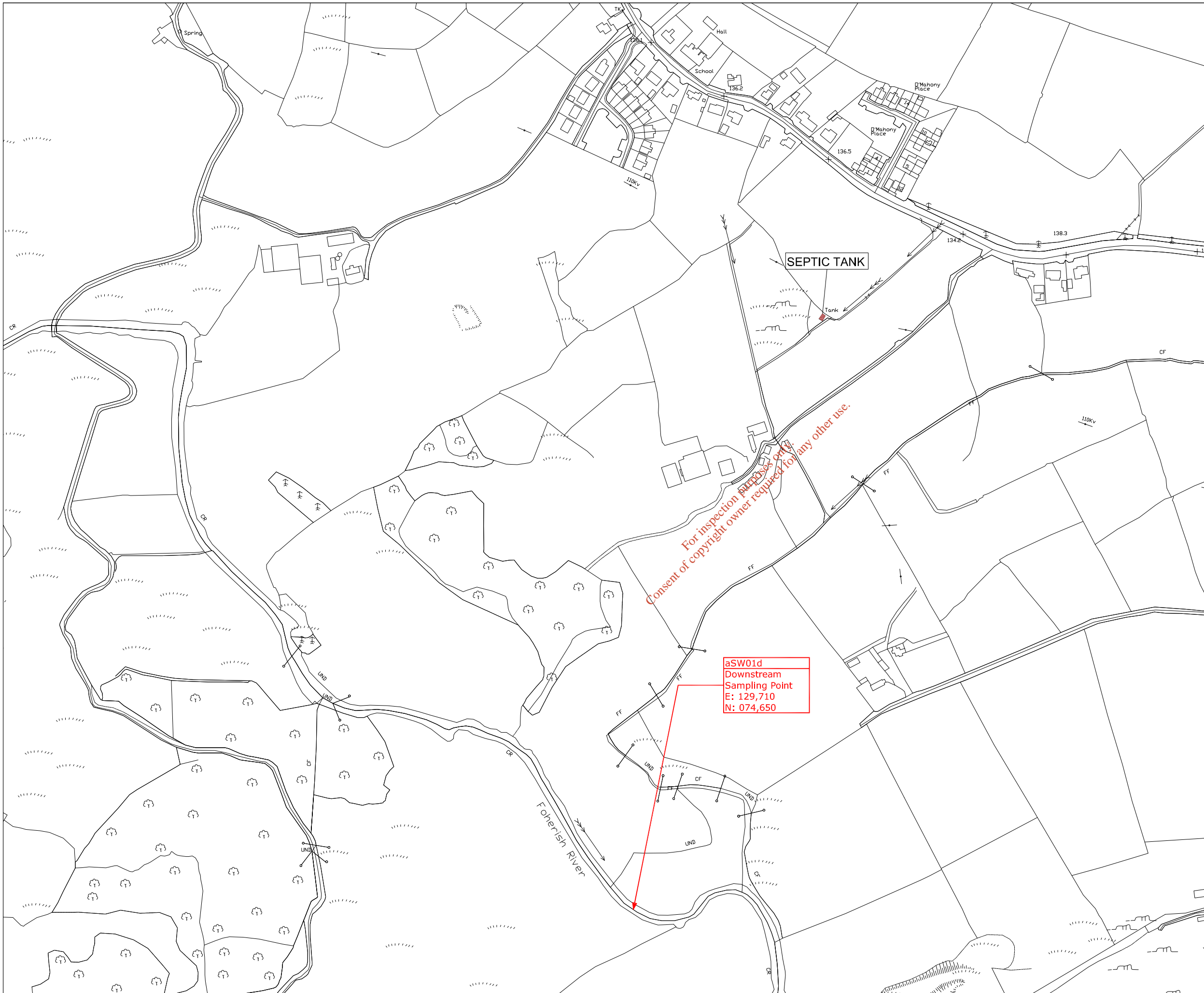
Rev.	Date	By	Description


**CORK COUNTY COUNCIL**  
**SOUTHERN DIVISION**  
 Noel O'Keefe, B.E. C.Eng. Eur. Ing F.I.E.I.M.I.C.E. County Engineer  
 Patricia Power, Director of Services, Area Operations South  
 County Hall, Cork.

Project: CLONDROHID WWTP  
 WASTE WATER  
 DISCHARGE LICENCE APPLICATION

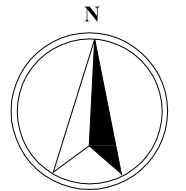
Title: Application Form  
 Attachment B3\_Map6  
 Location of Primary Discharge Point

Designed: ER	Checked: MH	Scales: 1:4,000 @ A3	Drawing No:
Drawn: MM	Approved: MH	Date: Nov '09	B3_Map6
File Path:	Status: —	Rev: 0	




**NOTES:**

1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council CCMA 2004/07. Unauthorised reproduction infringes Ordnance Survey Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
3. All levels refer to Ordnance Survey Datum, Malin Head.
4. DO NOT SCALE, use figured dimensions only, if in doubt ask.



Rev.	Date	By	Description

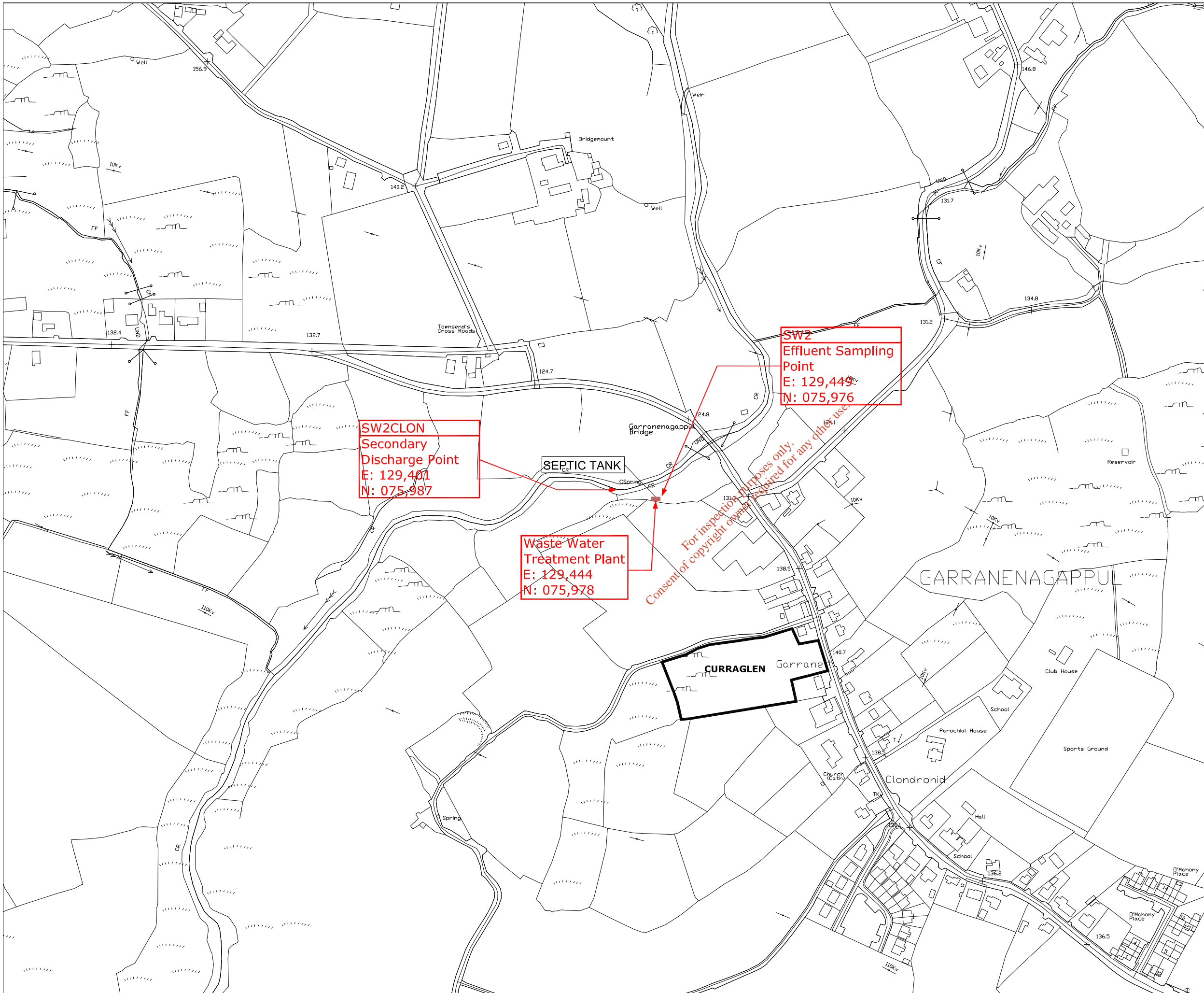

**CORK COUNTY COUNCIL**  
**SOUTHERN DIVISION**  
 Noel O'Keefe, B.E. C.Eng. Eur. Ing F.I.E.I.M.I.C.E.    Patricia Power,  
 County Engineer    Director of Services,  
 County Hall, Cork.    Area Operations South

Project: CLONDROHID WWTP  
 WASTE WATER  
 DISCHARGE LICENCE APPLICATION

Title: Application Form  
 Attachment B3\_Map7  
 Location of Downstream Monitoring Point

Designed: ER	Checked: MH	Scales: 1:4,000 @ A3	Drawing No:
Drawn: MM	Approved: MH	Date: Nov '09	B3_Map7
File Path:	Status: —	Rev: 0	

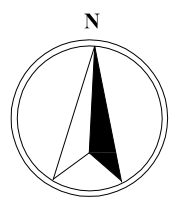




**NOTES:**

1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council CCMA 2004/07. Unauthorised reproduction infringes Ordnance Survey Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
3. All levels refer to Ordnance Survey Datum, Malin Head.
4. DO NOT SCALE, use figured dimensions only, if in doubt ask.

For inspection purposes only.  
Consent of copyright owner required for any other use.



Rev.	Date	By	Description

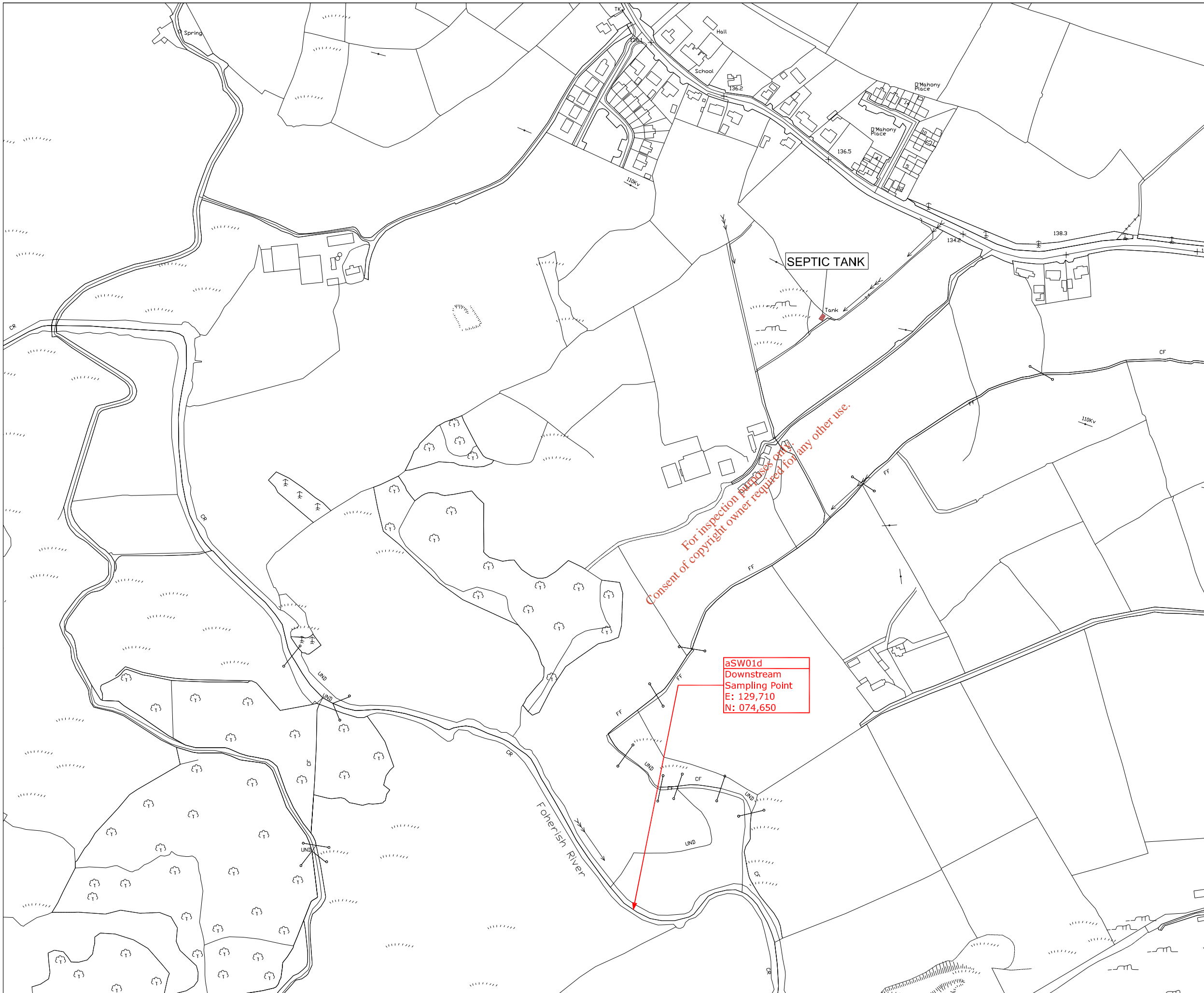
**CORK COUNTY COUNCIL**  
**SOUTHERN DIVISION**

Noel O'Keefe, B.E. C.Eng. Eur. Ing F.I.E.I.M.I.C.E. County Engineer  
County Hall, Cork. Patricia Power, Director of Services, Area Operations South

Project: CLONDROHID WWTP  
WASTE WATER  
DISCHARGE LICENCE APPLICATION

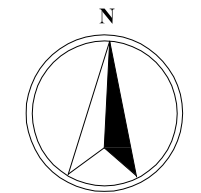
Title: Application Form  
Attachment B4\_Map8  
Location of Secondary Discharge Point

Designed: ER	Checked: MH	Scale: 1:4,000 @ A3	Drawing No: B4_Map8
Drawn: MM	Approved: MH	Date: Nov '09	
File Path:	Status: —	Rev: 0	




**NOTES:**

1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council CCMA 2004/07. Unauthorised reproduction infringes Ordnance Survey Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
3. All levels refer to Ordnance Survey Datum, Malin Head.
4. DO NOT SCALE, use figured dimensions only, if in doubt ask.



Rev.	Date	By	Description


**CORK COUNTY COUNCIL**  
**SOUTHERN DIVISION**  
 Noel O'Keefe, B.E. C.Eng. Eur. Ing F.I.E.I.M.I.C.E.    Patricia Power,  
 County Engineer    Director of Services,  
 County Hall, Cork.    Area Operations South

Project: CLONDROHID WWTP  
 WASTE WATER  
 DISCHARGE LICENCE APPLICATION

Title: Application Form  
 Attachment E2\_Map9  
 Location of Downstream Monitoring Point

Designed: ER	Checked: MH	Scales: 1:4,000 @ A3	Drawing No:
Drawn: MM	Approved: MH	Date: Nov '09	E2_Map9
File Path:	Status: —	Rev: 0	

# 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 2<sup>nd</sup> 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

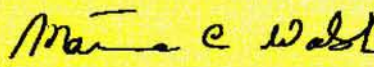
Expiry date of this certificate of accreditation: 01:10:2012

---

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: 

Mr Tom Dempsey

Chairperson: 

Dr Máire Walsh

Issued on 23 June 2008

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.

# Schedule of Accreditation



(Annex to Accreditation Certificate)

Permanent Laboratory:  
Category A

## CORK COUNTY COUNCIL

### Chemistry Testing Laboratory

*Initial Registration Date :* 25-April-1991  
*Postal Address:* Waste Water Laboratory  
*(Address of other locations as they apply)* Inniscarra  
Co. Cork  
*Telephone:* +353 (21) 4532700  
*Fax:* +353 (21) 4532777  
*E-mail:*  
*Contact Name:* Ms M Cherry  
*Facilities:* Normally not available for Public testing

*For inspection purposes only. Consent of copyright owner required for any other use.*

# Schedule of Accreditation



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, ensure that these standards of operation are maintained.

## Testing and Calibration Categories:

- Category 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 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 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 calibration and testing that is performed on site by individuals and organisations that do not have a permanent calibration/testing laboratory. Testing may be performed using
- portable test equipment
  - a site laboratory
  - a mobile laboratory or
  - equipment from a mobile or site laboratory

## Standard Specification or Test Procedure Used:

The standard specification or test procedure that is accredited is the issue that is current on the date of the most recent visit, unless otherwise stated.

## Glossary of Terms

### Facilities:

- Public calibration/testing service:** Commercial operations which actively seek work from others.
- Conditionally available for public calibration/testing:** Established for another primary purpose but, more commonly than not, is available for outside work.
- Normally not available for public calibration/testing:** Unavailable for public calibration/testing more often than not.

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.

# Scope of Accreditation



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 & Wastewater 21 st Edition APHA (See Note 1)
.01 Waters for domestic purposes <i>Surface and ground waters</i>	Biochemical Oxygen Demand 2 - 145,000 mg/l	CP No. 1 Membrane electrode
	pH 2 - 12	CP No. 5 Electrometry
	Suspended Solids 0.5 - 17,500 mg/l	CP No. 3 Gravimetric
	Chemical Oxygen Demand 21 - 135 mg/l 120 - 670,000 mg/l	CP No. 6 Reflux - colourmetric method
	Total phosphorus 0.2 - 5,300 mg/l	US-EPA Approved method/HACH Method CP No.20
	Ammonia 0.1 - 1,000 mg/l NH <sub>3</sub> - N	Documented in-house method CP22 by Konelab based on Method for the Examination of Waters and Associated Material HMSO:1981

# Scope of Accreditation



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 <i>Surface and ground waters</i>	<p>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/L</p> <p>Chloride (Konelab) Range: 25-250 mg/L Cl- High Range Conc.: 86,000 mg/L Cl- Method Detection Limit: 25 mg/L Cl-</p> <p>Sulphate (Konelab) Range: 30-250 mg/L SO4/L High Range Conc.: 35,000 mg/L SO4/L Method Detection Limit: 30 mg SO4/L</p>	<p>CP No. 23 Ascorbic Acid Method</p> <p>CP No. 24 Ferricyanide Method</p> <p>CP No. 25 Documented in-house method by Konelab based on method for the examination of waters and waste waters and associated material HMSO: 1981</p>

# Scope of Accreditation



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 & Wastewater 21 st Edition APHA (See Note 1)
.05 Trade Wastes <i>Industrial effluents</i> <i>Urban Wastewater</i> <i>Municipal Wastewater</i>	Biochemical Oxygen Demand 2 - 145,000 mg/l	CP No. 1 Membrane electrode
	pH 2 - 12	CP No. 5 Electrometry
	Suspended Solids 0.5 - 17,500 mg/l	CP No. 3 Gravimetric
	Chemical Oxygen Demand 21 - 135 mg/l 120 - 670,000 mg/l	CP No. 6 Reflux - colourmetric method
	Total phosphorus 0.2 - 5,300 mg/l	US-EPA Approved method/HACH Method CP No.20
	Ammonia 0.1 - 1,000 mg/l NH3-N	Documented in-house method CP22 by Konelab based on Method for the Examination of Waters and Associated Material HMSO: 1981.

Notes

1. APHA American Public Health Association, USA, 21<sup>st</sup> Edition



# Scope of Accreditation



Cork County Council  
Chemical Testing Laboratory

Permanent Laboratory:  
Category A

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

Notes  
1. APHA American Public Health Association, USA, 21<sup>st</sup> Edition

### Attachment E4 Clondrohid Table E4

Sample Date	29/10/2009		29/10/2009		29/10/2009
Sample	septic tank south		septic tank north		river downstream
Sample Code	GT1307		GT1308		GT1309
Flow M <sup>3</sup> /Day					
pH	7.1		7.4		7.6
Temperature °C					
Cond 20 °C	121		229		90
SS mg/L	84		19		3
NH <sub>3</sub> mg/L	2.2		62		<0.1
BOD mg/L	46		25		<1
COD mg/L	126		92		53
TN mg/L					
Nitrite mg/L					
Nitrate mg/L					
TP mg/L					
O-PO4-P mg/L	0.57		0.62		<0.05
SO4 mg/L	<30		<30		<30
Phenols µg/L	<0.1		<0.1		
Atrazine µg/L	<0.01		<0.01		
Dichloromethane	<1		<1		
Simazine µg/L	<0.01		<0.01		
Toluene µg/L	<0.28		<0.28		
Tributyltin µg/L	NOT REQUIRED		NOT REQUIRED		
Xylenes µg/L	<0.73		<0.73		
Arsenic µg/L	0.7		0.4		
Chromium ug/L	<20		<20		<20
Copper ug/L	26.0		<20		<20
Cyanide µg/L	<5		15		
Fluoride µg/L					
Lead ug/L	<20		<20		<20
Nickel ug/L	<20		<20		<20
Zinc ug/L	83.1		<20		<20
Boron ug/L	<20		<20		<20
Cadmium ug/L	<20		<20		<20
Mercury µg/L	<0.03		<0.03		
Selenium µg/L	<2.12		<2.12		
Barium ug/L	<20		<20		<20

For inspection purposes only. Consent of copyright owner required for any other use.


## SITE SYNOPSIS

**SITE NAME: MULLAGHANISH TO MUSERAMORE MOUNTAINS SPA**

**SITE CODE: 004162**

The Mullaghanish to Museramore Mountains SPA comprises a substantial part of the Boggeragh/Derrynasaggart Mountains. It is divided roughly into two sectors by the R582 road between Macroom and Millstreet. Most of the site is over 200 m in altitude, rising to heights of 475 m in the eastern sector (Muserabeg) and 462 m in the western sector (Knockullane). Several important rivers rise within the site, notably the Foherish and Awboy. The site is underlain by Old Red Sandstone.

The site consists of a variety of upland habitats, though approximately one-third is afforested. The coniferous forests include first and second rotation plantations, with both pre-thicket and post-thicket stands present. The principal tree species present are Sitka Spruce (*Picea sitchensis*) and Lodgepole Pine (*Pinus contorta*). Almost one-third of the site is unplanted blanket bog and heath, with both wet and dry heaths present. The vegetation is characterised by such species as Ling Heather (*Calluna vulgaris*), Cross-leaved Heath (*Erica tetralix*), Bilberry (*Vaccinium myrtillus*), Common Cottongrass (*Eriophorum angustifolium*), Deergrass (*Scirpus cespitosus*) and Purple Moor-grass (*Molinia caerulea*). The remainder of the site is mostly rough grassland that is used for hill farming. This varies in composition and includes some wet areas with rushes (*Juncus* spp.) and some areas subject to scrub encroachment.

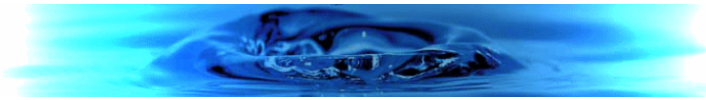
The site is a Special Protection Area (SPA) under the E.U. Birds Directive, of special conservation interest for Hen Harrier.

This SPA is a stronghold for Hen Harrier. A survey in 2005 resulted in 5 confirmed breeding pairs, which represents over 3% of the national total. A similar number had been recorded in the 1998-2000 period. The mix of forestry and open areas provides optimum habitat conditions for this rare bird, which is listed on Annex I of the Birds Directive. The early stages of new and second-rotation conifer plantations are the most frequently used nesting sites, though some pairs may still nest in tall heather of unplanted bogs and heath. Hen Harriers will forage up to c. 5 km from the nest site, utilising open bog and moorland, young conifer plantations and hill farmland that is not too rank. Birds will often forage in openings and gaps within forests. In Ireland, small birds and small mammals appear to be the most frequently taken prey.

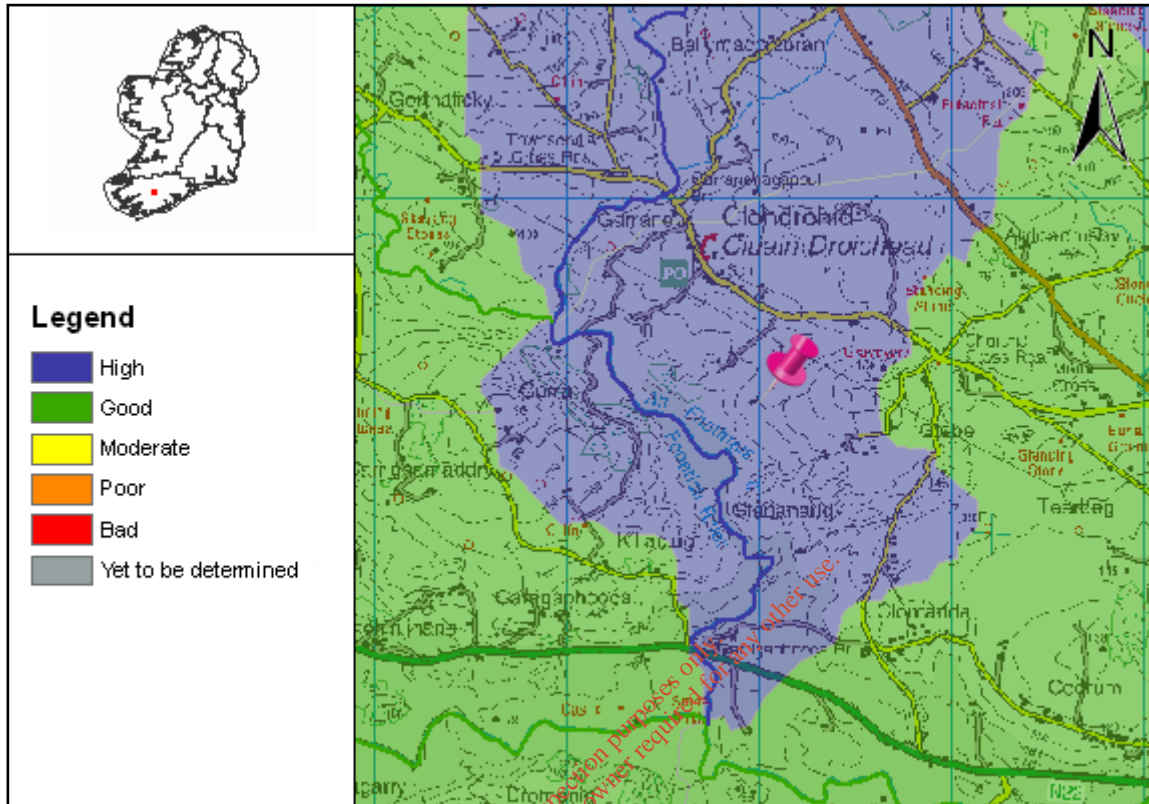
The site also supports a breeding population of Merlin, a species that is also listed on Annex I of the E.U. Birds Directive. The population size is not well known but is likely to be one or two pairs.

The main threat to the long-term survival of Hen Harriers within the site is further afforestation, which would reduce and fragment the area of foraging habitat, resulting in possible reductions in breeding density and productivity.

Overall, the site provides excellent nesting and foraging habitat for breeding Hen Harrier and is an important stronghold for the species.



Full Report for Waterbody AnFhothrais, Trib of Lee



Date Reported to Europe: 22/12/2008

Date Report Created 21/08/2009



Summary Information:

WaterBody Category: Subbasin Waterbody

WaterBody Name: AnFhothrais, Trib of Lee

WaterBody Code: IE\_SW\_19\_907

Overall Status: High

Overall Objective: Protect

Overall Risk: 2b Not At Risk

Applicable Supplementary Measures: Unsewered; Urban & Industrial; Morphology; Forestry;  
Report data based upon Draft RBMP, 22/12/2008.



*For inspection purposes only.  
Consent of copyright owner required for any other use.*

Date Reported to Europe: 22/12/2008

Date Report Created 21/08/2009



Status Report

WaterBody Category: Subbasin Waterbody  
 WaterBody Name: AnFhothrais, Trib of Lee  
 WaterBody Code: IE\_SW\_19\_907  
 Overall Status Result: **High**

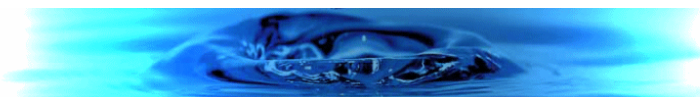


	Status Element Description	Result
EX	Status from Monitored or Extrapolated Waterbody	
	Biological Elements	
Q	Macroinvertebrates (Q-Value)	<b>High</b>
F	Fish	n/a
DI	Phytobenthos (Diatoms)	n/a
FPM	Status value as determined by Margartifera	n/a
	Supporting Elements	
MOR	Hydromorphology	n/a
SP	Specific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

For inspection purposes only.  
 Consent of copyright owner required for any other use.

Date Reported to Europe: 22/12/2008

Date Report Created 21/08/2009



Risk Report

WaterBody Category: Subbasin Waterbody  
 WaterBody Name: AnFhothrairs, Trib of Lee  
 WaterBody Code: IE\_SW\_19\_907  
 Overall Risk Result: **2b** Not At Risk

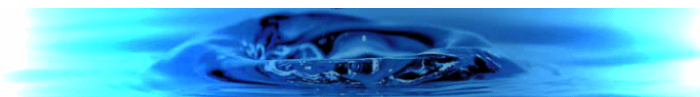


Risk Test Description	Risk
<b>Point Risk Sources</b>	
RP1 WWTPs (2008)	2b Not At Risk
RP2 CSOs	2b Not At Risk
RP3 IPPCs (2008)	2b Not At Risk
RP4 Section 4s (2008)	2b Not At Risk
RPO Overall Risk from Point Sources - Worst Case (2008)	2b Not At Risk
<b>Diffuse Risk Sources</b>	
RD1 EPA diffuse model (2008)	2a Probably Not At Risk
RD2a Road Wash - Soluble Copper	2b Not At Risk
RD2b Road Wash - Total Zinc	2b Not At Risk
RD2c Road Wash - Total Hydrocarbons	2b Not At Risk
RD3 Railways	2b Not At Risk
RD4a Forestry - Acidification (2008)	2b Not At Risk
RD4b Forestry - Suspended Solids (2008)	2b Not At Risk
RD4c Forestry - Eutrophication (2008)	2a Probably Not At Risk
RD5a Unsewered Areas - Pathogens (2008)	2a Probably Not At Risk
RD5b Unsewered Phosphorus (2008)	2b Not At Risk
RD5 Overall Unsewered (2008)	2b Not At Risk
RD6a Arable	2b Not At Risk
RD6b Sheep Dip	2b Not At Risk
RD6c Forestry - Dangerous Substances	2b Not At Risk
RDO Diffuse Overall -Worst Case (2008)	2a Probably Not At Risk

For inspection purposes only. Consent of copyright owner required for any other use.

Date Reported to Europe: 22/12/2008

Date Report Created 21/08/2009



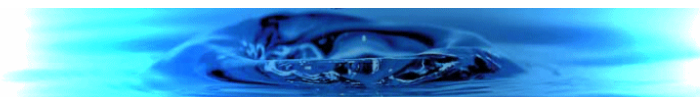
<b>Morphological Risk Sources</b>		
RM1	Channelisation (2008)	2b Not At Risk
RM2	Embankments (2008)	2b Not At Risk
RM3	Impoundments	2b Not At Risk
RM4	Water Regulation	2b Not At Risk
RM0	Morphology Overall - Worst Case (2008)	2b Not At Risk
<b>Q/RDI or Point/Diffuse</b>		
OPD	Q class/EPA Diffuse Model or worst case of Point and Diffuse (2008)	2b Not At Risk
<b>Hydrology</b>		
RHY1	Water balance - Abstraction	2b Not At Risk
<b>Overall Risk</b>		
RA	Rivers Overall - Worst Case (2008)	2b Not At Risk

*For inspection purposes only.  
Consent of copyright owner required for any other use.*

Date Reported to Europe: 22/12/2008

Date Report Created 21/08/2009





Objectives Report

WaterBody Category: Subbasin Waterbody  
 WaterBody Name: AnFhothraais, Trib of Lee  
 WaterBody Code: IE\_SW\_19\_907  
 Overall Objective: **Protect**

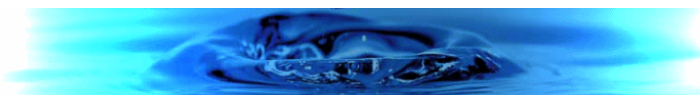


Objectives Description		Result
<b>Objectives</b>		
OB1	Objective 1 - Protected Areas	Not Applicable
OB2	Objective 2 - Protect High and Good Status	<b>Protect</b>
OB3	Objective 3 - Restore Less Than Good Status	Not Applicable
OB4	Objective 4 - Reduce Chemical Pollution	Not Applicable
OBO	Overall Objective	<b>Protect</b>
<b>Deadline</b>		
YR	Default Year by which the objective must be met	2015
EX	Revised Objective Deadline	2007
OBO	Overall Objective and Deadline	<b>Protect</b>

For inspection purposes only.  
 Consent of copyright owner required for any other use.

Date Reported to Europe: 22/12/2008

Date Report Created 21/08/2009



Basic Measures Report

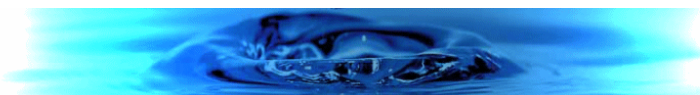
WaterBody Category: Subbasin Waterbody  
 WaterBody Name: AnFhothrais, Trib of Lee  
 WaterBody Code: IE\_SW\_19\_907



	Basic Measures Description	Applicable
	Key Directives	
BA	Bathing Waters Directive	No
BI	Birds Directive	No
HA	Habitats Directive	No
DW	Drinking Waters Directive	Yes
SEV	Major Accidents and Emergencies (Seveso) Directive	Yes
EIA	Environmental Impact Assessment Directive	Yes
SE	Sewage Sludge Directive	Yes
UW	Urban Waste Water Treatment Directive	No
PL	Plant Protection Products Directive	Yes
NI	Nitrates Directive	Yes
IP	Integrated Pollution Prevention Control Directive	Yes
	Other Stipulated Measures	
CR	Cost recovery for water use	Yes
SU	Promotion of efficient and sustainable water use	Yes
DWS	Protection of drinking water sources	Yes
AB	Control of abstraction and impoundments	Yes
PT	Control of point source discharges	Yes
DI	Control of diffuse source discharges	Yes
GWD	Authorisation of discharges to groundwater	No
PS	Control of priority substances	Yes
MOR	Control of physical modifications to surface waters	Yes
OA	Controls on other activities impacting on water status	Yes
AP	Prevention or reduction of the impact of accidental pollution incidents	Yes

Date Reported to Europe: 22/12/2008

Date Report Created 21/08/2009



Urban and Industrial Discharges Supplementary Measures Report

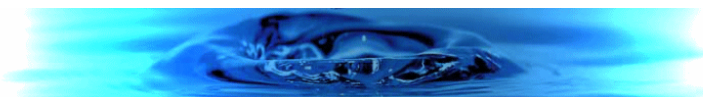
WaterBody Category: Subbasin Waterbody  
 WaterBody Name: AnFhothrais, Trib of Lee  
 WaterBody Code: IE\_SW\_19\_907



	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?	No
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.	No
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.	No
PB6	Basic Measure 6 - Investigate contributions to the collection system of specific substances known to impact ecological status.	No
PB7	Basic Measure 7 - Upgrade WWTP to increase capacity.	No
PB8	Basic Measure 8 - Upgrade WWTP to provide nutrient removal treatment.	No
PS1	Supplementary Measure 1 - 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

Date Reported to Europe: 22/12/2008

Date Report Created 21/08/2009

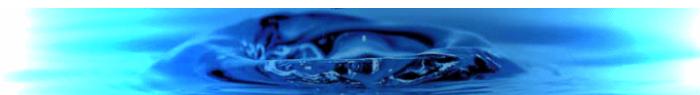


PS8	Supplementary Measure 8 - Upgrade the plant to remove specific substances known to impact on water quality status.	No
PS9	Supplementary Measure 9 - Install ultra-violet or similar type treatment.	No
PS10	Supplementary Measure 10 - Relocate the point of discharge.	No

*For inspection purposes only.  
Consent of copyright owner required for any other use.*

Date Reported to Europe: 22/12/2008

Date Report Created 21/08/2009



Physical Modifications Supplementary Measures Report

WaterBody Category: Subbasin Waterbody  
 WaterBody Name: AnFhothraais, Trib of Lee  
 WaterBody Code: IE\_SW\_19\_907



	Physical Modifications Supplementary Measures	Applicable
	<b>Reduce</b>	
SM1	Codes of Practice	Yes
SM2	Support for voluntary initiatives	Yes
	<b>Remediate</b>	
SM3	Channelisation impact remediation schemes	No
SM4	Channelisation investigation	No
SM5	Overgrazing remediation	No
SM6	Impassable barriers, impact confirmed, investigation into feasibility of remediation required	No
SM7	Impassable barriers investigation	Yes

*For inspection purposes only.  
 Consent of copyright owner required for any other use.*

Date Reported to Europe: 22/12/2008

Date Report Created 21/08/2009



Unsewered Properties Supplementary Measures Report

WaterBody Category: Subbasin Waterbody  
 WaterBody Name: AnFhothraais, Trib of Lee  
 WaterBody Code: IE\_SW\_19\_907

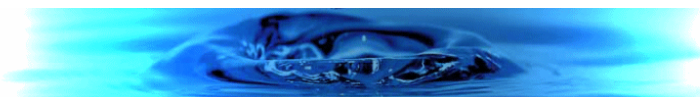


Supplementary Measures for <b>Unsewered Properties</b>		Applicable
SP1	Amend building regulations	Yes
SP2	Establish certified expert panels for site investigation and certification of installed systems	Yes
SP3	Assess applications for new unsewered systems by applying risk mapping/decision support systems 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	No

*For inspection purposes only.  
 Consent of copyright owner required for any other use.*

Date Reported to Europe: 22/12/2008

Date Report Created 21/08/2009



Forestry Measures Report

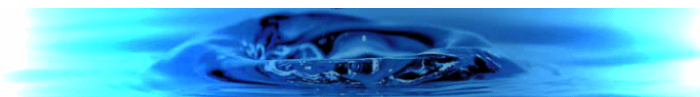
WaterBody Category: Subbasin Waterbody  
 WaterBody Name: AnFhothrais, Trib of Lee  
 WaterBody Code: IE\_SW\_19\_907



	Forestry Measures for Forestry	Applicable
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 21/08/2009



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

*For inspection purposes only.  
Consent of copyright owner required for any other use.*

Date Reported to Europe: 22/12/2008

Date Report Created 21/08/2009



## Agglomeration details

Leading Local Authority	Cork County Council
Co-Applicants	
Agglomeration	Clondrohid
Population Equivalent	250
Level of Treatment	
Treatment plant address	Clondrohid ,Macroom, County Cork
Grid Ref (12 digits, 6E, 6N)	129444 / 075978 (Verified using GPS)
EPA Reference No:	

## Contact details

Contact Name:	Patricia Power
Contact Address:	Water Services Section Cork County Council Southern Division Carrigrohane Road Cork
Contact Number:	021-4276891
Contact Fax:	021-4276321
Contact Email:	patricia.power@corkcoco.ie

For inspection purposes only.  
Consent of copyright owner required for any other use.

**THIS APPLICATION HAS NOT BEEN SUBMITTED**

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

Discharge Point Code: SW-1

Local Authority Ref No:	SW1CLON	
Source of Emission:	PRIMARY DISCHARGE	
Location:	CLONDROHID	
Grid Ref (12 digits, 6E, 6N)	129560 / 074870 (Verified using GPS)	
Name of Receiving waters:	Foherish river	
Water Body:	River Water Body	
River Basin District	South Western RBD	
Designation of Receiving Waters:	none	
Flow Rate in Receiving Waters:	0.02	m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow
	0.12	m <sup>3</sup> .sec <sup>-1</sup> 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)		

Emission Details:

(i) Volume emitted			
Normal/day	34 m <sup>3</sup>	Maximum/day	102 m <sup>3</sup>
Maximum rate/hour	4.25 m <sup>3</sup>	Period of emission (avg)	60 min/hr 24 hr/day 365 day/yr
Dry Weather Flow	0.0004 m <sup>3</sup> /sec		

**THIS APPLICATION HAS NOT BEEN SUBMITTED**

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
pH	pH	Grab	= 9	
Temperature	°C	Grab	= 25	
Electrical Conductivity (@ 25°C)	µS/cm	Grab	= 1000	
Suspended Solids	mg/l	Grab	= 350	35.7
Ammonia (as N)	mg/l	Grab	= 0	0
Biochemical Oxygen Demand	mg/l	Grab	= 300	30.6
Chemical Oxygen Demand	mg/l	Grab	= 800	81.6
Total Nitrogen (as N)	mg/l	Grab	= 85	8.67
Nitrite (as N)	mg/l	Grab	= 0	0
Nitrate (as N)	mg/l	Grab	= 0	0
Total Phosphorous (as P)	mg/l	Grab	= 12	1.224
OrthoPhosphate (as P)	mg/l	Grab	= 0	0
Sulphate (SO <sub>4</sub> )	mg/l	Grab	= 0	0
Phenols (Sum)	µg/l	Grab	= 0	0

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.

For inspection purposes only.  
 Consent of copyright owner required for any other use.

**THIS APPLICATION HAS NOT BEEN SUBMITTED**

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	= 0	0
Cadmium	µg/l	Grab	= 0	0
Mercury	µg/l	Grab	= 0	0
Selenium	µg/l	Grab	= 0	0
Barium	µg/l	Grab	= 0	0

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.

**THIS APPLICATION HAS NOT BEEN SUBMITTED**

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

Discharge Point Code: SW-2

Local Authority Ref No:	SW2CLON	
Source of Emission:	SECONDARY	
Location:	Foherish river bank	
Grid Ref (12 digits, 6E, 6N)	129401 / 075987 (Verified using GPS)	
Name of Receiving waters:	Foherish river	
Water Body:	River Water Body	
River Basin District	South Western RBD	
Designation of Receiving Waters:	none	
Flow Rate in Receiving Waters:	0.02	m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow
	0.12	m <sup>3</sup> .sec <sup>-1</sup> 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	This secondary discharge point was inaccessible , and location has been estimated .	

Emission Details:

(i) Volume emitted			
Normal/day	22.5 m <sup>3</sup>	Maximum/day	67.5 m <sup>3</sup>
Maximum rate/hour	2.81 m <sup>3</sup>	Period of emission (avg)	60 min/hr 24 hr/day 365 day/yr
Dry Weather Flow	0.00078 m <sup>3</sup> /sec		

For inspection purposes only. Consent of copyright owner required for any other use.

**THIS APPLICATION HAS NOT BEEN SUBMITTED**

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

Discharge Point Code: SW-2

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
pH	pH	Grab	= 9	
Temperature	°C	Grab	= 25	
Electrical Conductivity (@ 25°C)	µS/cm	Grab	= 1000	
Suspended Solids	mg/l	Grab	= 350	23.6
Ammonia (as N)	mg/l	Grab	= 0	0
Biochemical Oxygen Demand	mg/l	Grab	= 300	20.25
Chemical Oxygen Demand	mg/l	Grab	= 800	54
Total Nitrogen (as N)	mg/l	Grab	= 85	
Nitrite (as N)	mg/l	Grab	= 0	
Nitrate (as N)	mg/l	Grab	= 0	
Total Phosphorous (as P)	mg/l	Grab	= 12	
OrthoPhosphate (as P)	mg/l	Grab	= 0	
Sulphate (SO <sub>4</sub> )	mg/l	Grab	= 0	
Phenols (Sum)	µg/l	Grab	= 0	

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.

For inspection purposes only.  
 Consent of copyright owner required for any other use.

**THIS APPLICATION HAS NOT BEEN SUBMITTED**

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

Discharge Point Code: SW-2

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	= 0	0
Cadmium	µg/l	Grab	= 0	0
Mercury	µg/l	Grab	= 0	0
Selenium	µg/l	Grab	= 0	0
Barium	µg/l	Autosampler	= 0	0

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.

**THIS APPLICATION HAS NOT BEEN SUBMITTED**

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 (m <sup>3</sup> /annum)
SW-1	365	12410
SW-2	365	8212.5

For inspection purposes only.  
Consent of copyright owner required for any other use.



**THIS APPLICATION HAS NOT BEEN SUBMITTED**

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 (m <sup>3</sup> /annum)	Complies with Definition of Storm Water Overflow
---	-------------------------------------	--	--

For inspection purposes only.  
Consent of copyright owner required for any other use.

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)	129449 / 075976

For inspection purposes only.  
Consent of copyright owner required for any other use.

**THIS APPLICATION HAS NOT BEEN SUBMITTED**

---

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)	129449 / 075976

*For inspection purposes only.  
Consent of copyright owner required for any other use.*

**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.

<b>Regulation 16(1)</b> <b>In the case of an application for a waste water discharge licence, the application shall -</b>		<b>Attachment Number</b>	<b>Checked by Applicant</b>
(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,		
(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,		
(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,		
(d)	state the population equivalent of the agglomeration to which the application relates,		
(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,		
(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.		
(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,		
(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,		
(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,		
(j)	give particulars of the nearest downstream drinking water abstraction point or points to the discharge point or points,		
(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,		
(l)	give detail of compliance with relevant monitoring requirements and treatment standards contained in any applicable Council Directives of Regulations,		
(m)	give details of any work necessary to meet relevant effluent discharge standards and a timeframe and schedule for such work.		
(n)	Any other information as may be stipulated by the Agency.		
<b>Regulation 16(3)</b> <b>Without prejudice to Regulation 16 (1) and (2), an application for a licence shall be accompanied by -</b>		<b>Attachment Number</b>	<b>Checked by Applicant</b>
(a)	a copy of the notice of intention to make an application given pursuant to Regulation 9,		
(b)	where appropriate, a copy of the notice given to a relevant water services authority under Regulation 13,		
(c)	Such other particulars, drawings, maps, reports and supporting documentation as are necessary to identify and describe, as appropriate -		
(c) (i)	the point or points, including storm water overflows, from which a discharge or discharges take place or are to take place, and		
(c) (ii)	the point or points at which monitoring and sampling are undertaken or are to be undertaken,		
(d)	such fee as is appropriate having regard to the provisions of Regulations 38 and 39.		

**THIS APPLICATION HAS NOT BEEN SUBMITTED**

<b>Regulation 16(4)</b> 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 agency.		
<b>Regulation 16(5)</b> 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.		
2	2 hardcopies of application provided or 2 CD versions of application (PDF files) provided.		
3	1 CD of geo-referenced digital files provided.		
<b>Regulation 17</b> 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.		
1	EIA provided if applicable		
2	2 hardcopies of EIS provided if applicable.		
<b>Regulation 24</b> 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		
(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,		
(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,		
(d)	state the population equivalent of the agglomeration to which the application relates,		
(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,		
(f)	specify the content and extent of the waste water discharge, the level of treatment provided and the flow and type of discharge,		
(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,		
(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,		
(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,		
(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,		
(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,		
(l)	give details of any designation under any Council Directive or Regulations that apply in relation to the receiving waters,		
(m)	give details of compliance with any applicable monitoring requirements and treatment standards,		
(n)	give details of any work necessary to meet relevant effluent discharge standards and a timeframe and schedule for such work,		
(o)	give any other information as may be stipulated by the Agency, and		
(p)	be accompanied by such fee as is appropriate having regard to the provisions of Regulations 38 and 39.		