

ATTACHMENT NO. B4

Drawing No. B4-1 Location of Secondary Discharge Points

Drawing No. B4-2 Location of Secondary Discharge Points

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# Attachment B.1 Agglomeration Boundary

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## Attachment B.2

## Waste Water Treatment Plant

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# Attachment B.3

# Primary Discharge Point

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# Attachment B.4 Secondary Discharge Point

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**WASTE WATER DISCHARGE  
CERTIFICATE OF AUTHORISATION  
FOR  
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**Section C**

**SECTION C**  
**INFRASTRUCTURE & OPERATION**

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# SECTION C: INFRASTRUCTURE & OPERATION

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

## C.1 Operational Information Requirements (Not Applicable)

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

### C.1.1 Storm Water Overflows

For each storm water overflow within the waste water works the following information shall be submitted:

- An assessment to determine compliance with the criteria for storm water overflows, as set out in the DoEHLG 'Procedures and Criteria in Relation to Storm Water Overflows', 1995 and any other guidance as may be specified by the Agency, and
- Identify whether any of the storm water overflows are to be decommissioned, and identify a date by which these overflows will cease, if applicable.

### C.1.2 Pumping Stations

For each pump station operating within the waste water works, provide details of the following:

- Number of duty and standby pumps at each pump station;
- The measures taken in the event of power failure;
- Details of storage capacity at each pump station;
- Frequency and duration of activation of emergency overflow to receiving waters. Clarify the location where such discharges enter the receiving waters.

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

Attachment included	Yes	No
	X	



## C.2 Outfall Design and Construction

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

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

Attachment included	Yes	No
		x

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**Attachment C.1**

**Operation Information  
Requirements.**

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## **C.1 OPERATIONAL INFORMATION REQUIREMENTS**

The existing WWTP located at Coole East consists of a septic tank treatment system. The septic tank is of concrete construction and was installed in the early 1970's to services a small cluster of domestic dwellinghouses. .

The Septic tank provides primary and secondary treatment. The primary treatment is achieved by settlement. The secondary treatment is achieved by percolation of the settled waste water to a stone percolation area.

The design capacity of the WWTP is unknown. It is known that the WWTP does not have sufficient capacity to treat any further development within the Agglomeration.

### **C.1.1 Storm Water Overflows**

There are no storm water overflows within the waste water works.

### **C.1.2 Pumping Stations**

There are no pumping stations within the waste water works.

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**Attachment C.2**

**Outfall Design & Construction**

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## **C.2 Outfall Design and Construction.**

The primary discharge point associated with the septic tank treatment system at Coole East is located northeast of the housing cluster. The primary discharge point discharges to a stone soakpit.

The outfall is constructed from 100mm uPVC pipe and discharges directly into a stone soakpit.

There is no secondary discharge point in the Coole East Agglomeration.

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# Attachment C.1

# Operational Information Requirements

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## Attachment C.2

## Outfall Design & Construction

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**Section D**



## SECTION D

### DISCHARGES TO THE AQUATIC ENVIRONMENT

#### **Coole East Waste Discharge Certificate of Authorisation**

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## SECTION D: DISCHARGES TO THE AQUATIC ENVIRONMENT

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

Give particulars of the source, location, nature, composition, quantity, level and rate of discharges arising from the agglomeration and, where relevant, the period or periods during which such emissions are made or are to be made.

Details of all discharges of waste water from the agglomeration should be submitted via the following web based link: [http://78.137.160.73/epa\\_wwd\\_licensing/](http://78.137.160.73/epa_wwd_licensing/). The applicant should address in particular all discharge points where the substances outlined in Tables D.1(i), (b) & (c) and D.1(ii), (b) & (c) of Annex 1 are emitted.

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

### D.1 Discharges to Surface Waters

Details of all discharges of waste water from the agglomeration should be supplied via the following web based link: [http://78.137.160.73/epa\\_wwd\\_licensing/](http://78.137.160.73/epa_wwd_licensing/). Tables D.1(i)(a), (b) & (c), should be completed for the primary discharge point from the agglomeration and Tables D.1(ii)(a), (b) & (c) should be completed for each secondary discharge point, where relevant. Table D.1(iii)(a) should be completed for each storm water overflow. Individual Tables must be completed for each discharge point.

Where monitoring information is available for the influent to the plant this data should also be provided in response to Section D.1.

Supporting information should form **Attachment D.1**

<b>Attachment included</b>	<b>Yes</b>	<b>No</b>
	<b>X</b>	

### D.2 Tabular Data on Discharge Points

Applicants should submit the following information for each discharge point:

**Table D.2:**

PT_CD	PT_TYPE	LA_NAME	RWB_TYPE	RWB_NAME	DESIGNATION	EASTING	NORTHING
Point Code Provide label ID's	Point Type (e.g., Primary/ Secondary/ Storm Water)	Local Authority Name (e.g., Donegal County Council)	Receiving Water Body Type (e.g., River, Lake, Groundwater, Transitional,	Receiving Water Body Name (e.g., River Suir)	Protected Area Type (e.g., SAC, candidate SAC, NHA, SPA etc.)	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference

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

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# Attachment D.1

# Discharges to Surface Waters

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## Attachment D.2

## Tabular Data on Discharge Points

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## Discharge Point

Cork County Council > Coole East > GW-1

Discharge Point Details Emissions to surface/ground waters Dangerous Substance Emissions Monitoring Points

### Discharge Point Details

Emission To:	Ground Water	Flow rate of receiving waters (Dry Weather Flow) (m <sup>3</sup> /sec)	
Emission Point Reference Number	GW-1	Flow rate of receiving waters (95% Flow) (m <sup>3</sup> /sec)	
Water Body	Ground Water Body	Volume to be emitted (Normal / Day) (m <sup>3</sup> )	11
Local Authority Ref No.		Volume to be emitted (Maximum / Day) (m <sup>3</sup> )	68
Source of Emission	Primary Discharge	Volume to be emitted (Maximum Rate / Hour) (m <sup>3</sup> )	3
Location	Coole East	Volume to be emitted (Dry Weather Flow) (m <sup>3</sup> /sec)	0.01
Easting (6 digits)	169925	Periods of Emission (Minutes per Hour)	60
Northing (6 digits)	79286	Periods of Emission (Hours per Day)	24
	<input checked="" type="checkbox"/> Verified using GPS	Periods of Emission (Days per Year)	365
Name of receiving waters	N/A	Frequency of Discharge (days / annum):	365
River Basin District	South Western RBD	Quantity of Waste Water Discharged (m <sup>3</sup> /annum):	4015
Designation of receiving waters	N/A		

Additional Comments (e.g. commentary on zero flow or other information deemed of value)

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[http://78.137.160.73/epa\\_wwd\\_licensing/DP\\_Details.aspx?action=EDIT&id=2422](http://78.137.160.73/epa_wwd_licensing/DP_Details.aspx?action=EDIT&id=2422)

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**Section E**

# SECTION E

## Monitoring

### **Cole East Waste Discharge Certificate of Authorisation**

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# Attachment E.1

# Waste Water Frequency & Quantities

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# Discharge Point

Cork County Council > Coole East > GW-1

Discharge Point Details Emissions to surface/ground waters Dangerous Substance Emissions Monitoring Points

## Discharge Point Details

Emission To:	Ground Water	Flow rate of receiving waters (Dry Weather Flow) (m <sup>3</sup> /sec)	
Emission Point Reference Number	GW-1	Flow rate of receiving waters (95% Flow) (m <sup>3</sup> /sec)	
Water Body	Ground Water Body	Volume to be emitted (Normal / Day) (m <sup>3</sup> )	11
Local Authority Ref No.		Volume to be emitted (Maximum / Day) (m <sup>3</sup> )	68
Source of Emission	Primary Discharge	Volume to be emitted (Maximum Rate / Hour) (m <sup>3</sup> )	3
Location	Coole East	Volume to be emitted (Dry Weather Flow) (m <sup>3</sup> /sec)	0.01
Easting (6 digits)	169925	Periods of Emission (Minutes per Hour)	60
Northing (6 digits)	79266	Periods of Emission (Hours per Day)	24
	<input checked="" type="checkbox"/> Verified using GPS	Periods of Emission (Days per Year)	365
Name of receiving waters	N/A	Frequency of Discharge (days / annum):	365
River Basin District	South Western RBD	Quantity of Waste Water Discharged (m <sup>3</sup> /annum):	4015
Designation of receiving waters	N/A		

Additional Comments (e.g. commentary on zero flow or other information deemed of value)

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## Attachment E.2

## Monitoring & Sampling Points

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## Attachment E.3

## Tabular Data on Monitoring & Sampling Points

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# Attachment E.4      Sampling Data

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# Discharge Point

Cork County Council > Coole East > GW-1

Discharge Point Details Emissions to surface/ground waters Dangerous Substance Emissions Monitoring Points  
 Emissions to surface/ground waters

Substance	Unit of Measure	Sampling Method	As discharged Max daily average	kg/Day
pH	pH			
Temperature	°C			
Electrical Conductivity (@ 25 °C)	µS/cm		6.7	
Suspended Solids	mg/l			
Ammonia (as N)	mg/l		917	
Biochemical Oxygen Demand	mg/l		17500	
Chemical Oxygen Demand	mg/l		43.9	
Total Nitrogen (as N)	mg/l		4185	
Nitrite (as N)	mg/l		17910	
Nitrate (as N)	mg/l		1620	
Total Phosphorous (as P)	mg/l		0.1	
OrthoPhosphate (as P)	mg/l		0.5	
Sulphate (SO <sub>4</sub> )	mg/l		7.8	
Phenols (Sum)	µg/l		5.54	
			30	

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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.

[http://78.137.160.73/epa\\_wwd\\_licensing/DP\\_Details.aspx?action=EDIT&id=2422](http://78.137.160.73/epa_wwd_licensing/DP_Details.aspx?action=EDIT&id=2422)

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## Discharge Point

Cork County Council > Coole East > GW-1

Discharge Point Details Emissions to surface/ground waters Dangerous Substance Emissions Monitoring Points

### Dangerous Substance Emissions

Substance	Unit of Measure	Sampling Method	As discharged Max daily average	kg/Day
Atrazine	µg/l	>	<	0.01
Dichloromethane	µg/l	>	<	1
Simazine	µg/l	>	<	0.01
Toluene	µg/l	>	=	200.55
Tributyltin	µg/l	>	=	
Xylenes	µg/l	>	<	0.73
Arsenic	µg/l	>	=	96.3
Chromium	µg/l	>	=	836.7
Copper	µg/l	>	=	20405
Cyanide	µg/l	>	<	5
Flouride	µg/l	>	=	175
Lead	µg/l	>	=	3676
Nickel	µg/l	>	=	897
Zinc	µg/l	>	=	38660
Boron	µg/l	>	=	81.9
Cadmium	µg/l	>	=	

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Mercury	µg/l				46.2
Selenium	µg/l				10.6
Barium	µg/l				70.3
					13180

Save Cancel

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**Section F**

## Section F

Existing Environment & Impact of the Discharge(s)

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

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

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

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

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

- Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.
- Details of all monitoring of the receiving water should be supplied via the following web based link: [http://78.137.160.73/epa\\_wwd\\_licensing/](http://78.137.160.73/epa_wwd_licensing/). Tables F.1(i)(a) & (b) should be completed for the primary discharge point. Surface water monitoring locations upstream and downstream of the discharge point shall be screened for those substances listed in Tables F.1(i)(a) & (b). Monitoring of surface water shall be carried out at not less than two points, one upstream from the discharge location and one downstream.
- For discharges from secondary discharge points Tables F.1(ii)(a) & (b) should be completed. Furthermore, provide summary details and an assessment of the impacts of any existing or proposed emissions on the surface water or ground (aquifers, soils, sub-soils and rock environment), including any impact on environmental media other than those into which the emissions are to be made.
- Provide details of the extent and type of ground emissions at the works. For larger discharges to groundwaters, e.g., from Integrated Constructed Wetlands, large scale percolation areas, etc., a comprehensive report must be completed which should include, inter alia, topography, meteorological data, water quality, geology, hydrology, and hydrogeology. The latter must in particular present the aquifer classification and vulnerability. The Geological Survey of Ireland Groundwater Protection Scheme Dept of the Environment and Local Government, Geological Survey of Ireland, EPA (1999) methodology should be used for any such classification. This report should also identify all surface water bodies and water wells that may be at risk as a result of the ground discharge.
- Describe the existing environment in terms of water quality with particular reference to environmental quality standards or other legislative standards. Submit a copy of the most recent water quality management plan or catchment management plan in place for the receiving water body.

Give details of any designation under any Council Directive or Regulations that apply in relation to the receiving water.

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

- This section should also contain full details of any modelling of discharges from the agglomeration. Full details of the assessment and any other relevant information on the receiving environment should be submitted as **Attachment F.1.**

<b>Attachment included</b>	<b>Yes</b>	<b>No</b>
	<b>Y</b>	

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

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

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

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

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

**Attachment F.2** should contain any supporting information.

## **F.1 ASSESSMENT OF IMPACT ON RECEIVING GROUNDWATER**

### **F.1.1 Environmental Impacts**

There are no known significant effects arising from the direct discharge of treated effluent from the septic tank waste water works to the receiving Groundwater.

### **F.1.2 Monitoring of Receiving Water**

The primary discharge in the Coole East agglomeration is from the WWTP. The primary discharge point corresponds to the WWTP outfall.

### **F.1.3 Secondary Discharge Points**

There is no secondary discharge in the Coole East agglomeration.

### **F.1.4 Ground Emissions**

There are ground emissions from the waste water works serving the Coole East Agglomeration.

### **F.1.5 Water Quality**

The waste water works discharges through the primary discharge point to a percolation area.

### **F.1.6 Dangerous Substances**

The Dangerous Substances Regulations S.I. No. 12 of 2001 set out the main polluting substances, such as pesticides, solvents and metals, which are likely to impair the environment.

The waste water in the Coole East Agglomeration is domestic in nature. It is therefore unlikely to have significant quantities of dangerous substances.

The main polluting substances emitted from the waste water works serving the Coole East Agglomeration are BOD, SS and nutrients.

### **F.1.7 Downstream Water Abstraction Points**

There is no river or drinking water abstraction point located close to the primary discharge points.

### **F.1.8 Effect of Emissions**

Emissions from the Coole East Agglomeration, or any plant, methods, processes, operating procedures or other factors which affect such emissions, are not likely to have a significant effect on the following:

- A site (until the adoption, in respect of the site, of a decision by the European Commission under Article 21 of Council Directive 92/43/EEC for the purposes of the third paragraph of Article 4(2) of that Directive) notified for the purposes of Regulation 4

- of the Natural Habitats Regulations, subject to any amendments made to it by virtue of Regulation 5 of those Regulations;
- A site (until the adoption, in respect of the site, of a decision by the European Commission under Article 21 of Council Directive 92/43/EEC for the purposes of the third paragraph of Article 4(2) of that Directive), details of which have been transmitted to the Commission in accordance with Regulation 5(4) of the Natural Habitats Regulations;
  - A site (until the adoption, in respect of the site, of a decision by the European Commission under Article 21 of Council Directive 92/43/EEC for the purposes of the third paragraph of Article 4(2) of that Directive) added by virtue of Regulation 6 of the Natural Habitats Regulations to the list transmitted to the Commission in accordance with Regulation 5(4) of those Regulations;
  - A site adopted by the European Commission as a site of Community importance for the purposes of Article 4(2) of Council Directive 92/43/EEC in accordance with the procedures laid down in Article 21 of that Directive,
  - A special area of conservation within the meaning of the Natural Habitats Regulations;
  - An area classified pursuant to Article 4(1) or 4(2) of Council Directive 79/409/EEC.

#### **F.1.9 Minimising Pollution over Long Distances**

Measures for minimising pollution over long distances or in the territory of other states are not applicable to the Coole East Agglomeration.

#### **F.1.10 Modelling of Discharges**

Modelling of discharges from the Coole East Agglomeration has not been undertaken.

# Attachment F.1

# Assessment of Impact on Receiving Water

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## Attachment F.2

## Tabular Data on Drinking Water Abstraction Points

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**Section G**

## SECTION G

### PROGRAMMES OF IMPROVEMENTS

#### Coole East Waste Discharge Certificate of Authorisation

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## SECTION G: PROGRAMMES OF IMPROVEMENTS

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

### G.1 Compliance with Council Directives

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

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

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

Attachment included	Yes	No
		X

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

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

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

<b>Attachment included</b>	<b>Yes</b>	<b>No</b>
		<b>X</b>

**G.3 Impact Mitigation**

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

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

<b>Attachment included</b>	<b>Yes</b>	<b>No</b>
		<b>X</b>

**G.4 Storm Water Overflow**

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

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

<b>Attachment included</b>	<b>Yes</b>	<b>No</b>
		<b>N</b>

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## **G.1 COMPLIANCE WITH COUNCIL DIRECTIVES**

### **G.1.1 Dangerous Substances Directive 2006/11/EEC**

Refer to Section F.1. The Dangerous Substances Regulations S.I. No. 12 of 2001 give effect to the Dangerous Substances Directive 2006/11/EC. The Regulations set out the main polluting substances, such as pesticides, solvents and metals, which are likely to impair the environment.

The waste water in the Coole East Agglomeration is domestic in nature. It is therefore unlikely to have significant quantities of dangerous substances.

The main polluting substances emitted from the WWW serving the Coole East Agglomeration are BOD, SS and nutrients.

There is therefore no requirement for a programme of improvements to ensure that emissions from the agglomeration or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of the Dangerous Substances Directive 2006/11/EC.

### **G.1.2 Water Framework Directive 2000/60/EEC**

The Water Framework Directive 2000/60/EC seeks to ensure "high" status for all waters within member states by 2015.

Refer to Section F.1. The primary WWTP serving the Coole East agglomeration discharges through the primary discharge point to a soakpit.

A draft river basin management plan has been prepared for the SWRBD. A copy of this report can be seen at Attachment F.1.

There is therefore no requirement for a programme of improvements to ensure that emissions from the agglomeration or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of the Water Framework Directive 2000/60/EC.

### **G.1.3 Birds Directive 79/409/EEC**

SPAs have been designated as a result of the Birds Directive 79/409/EEC in order to protect certain habitats. There are no SPAs affected by emissions from the Coole East Agglomeration.

There is therefore no requirement for a programme of improvements to ensure that emissions from the agglomeration or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of the Birds Directive 79/409/EEC.

### **G.1.4 Groundwater Directives 80/68/EEC & 2006/118/EEC**

There is emissions to groundwater from the WWW's serving the Coole East Agglomeration.

Presently there is no programme of improvements to ensure that emissions from the agglomeration or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of the Groundwater Directives 80/68/EEC & 2006/118/EC.

#### **G.1.5 Drinking Water Directive 80/778/EEC**

Refer to Sections F.1 and F.2. There is no drinking water abstraction point location adjacent to the primary discharge point.

There is therefore no requirement for a programme of improvements to ensure that emissions from the agglomeration or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of the Drinking Water Directive 80/778/EEC.

#### **G.1.6 Urban Waste Water Treatment Directive 91/271/EEC**

The Urban Waste Water Treatment Directive 91/271/EEC requires that appropriate levels of waste water treatment are achieved by defined dates for municipalities of defined PE where the effluent discharges to freshwaters or estuaries. In the case of Coole East, there is no discharge to freshwaters or estuaries.

There is therefore a requirement for a programme of improvements to ensure that emissions from the agglomeration or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of the Urban Waste Water Treatment Directive 91/271/EEC. However, this programme has been delayed due to lack of funding.

### **G.1.7 Habitats Directive 92/43/EEC**

SACs have been designated as a result of the Habitats Directive 92/43/EEC in order to protect certain habitats.

Refer to Section F.1 where it is seen that both the primary and secondary discharge points serving the Coole East Agglomeration are located within the Blackwater River (Cork/Waterford) SAC. However, emissions from the Coole East Agglomeration, or any plant, methods, processes, operating procedures or other factors which affect such emissions, are not likely to have a significant effect on the SAC.

There is therefore no requirement for a programme of improvements to ensure that emissions from the agglomeration or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of the Habitats Directive 92/43/EEC.

### **G.1.8 Environmental Liabilities Directive 2004/35/EEC**

The Environmental Liabilities Directive 2004/35/EEC seeks to hold polluters liable for the cost of remedying their pollution.

Cork County Council attempts to limit pollution by the routine inspection and maintenance of the WWTP serving the Coole East Agglomeration.

The maintenance, monitoring and replacement where required reduces risk of pollution.

### **G.1.9 Bathing Water Directive 76/160/EEC**

There are no designated bathing waters in the Coole East agglomeration. There is therefore no requirement for a programme of improvements to ensure that emissions from the agglomeration or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of the Bathing Water Directive 76/160/EEC.

### **G.1.10 Shellfish Waters Directive 79/923/EEC**

There are no designated shellfish waters in the Coole East agglomeration. There is therefore no requirement for a programme of improvements to ensure that emissions from the agglomeration or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of the Shellfish Waters Directive 79/923/EEC.



## **G.2 PROGRAMME OF IMPROVEMENTS FOR COMPLIANCE WITH PHOSPHORUS REGULATIONS**

There is no discharge to watercourse from the WWW's in the Coole East agglomeration.

There is therefore no requirement for a programme of improvements to ensure that improvements of water quality required under the Water Quality Standards for Phosphorous Regulations (S.I. 258 of 1998) are being achieved.

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### **G.3 IMPACT MITIGATION**

Refer to Section F.1 where it is stated that there are no known significant effects arising from the direct discharge of treated effluent from the WWW serving the Coole East Agglomeration. There is therefore no programme of improvements required to ensure that discharges from the Coole East Agglomeration will not result in significant environmental pollution.

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# Attachment G.1

# Compliance with Council Directives

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## Attachment G.2

# Compliance with Phosphorus Regulations

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# Attachment G.3      Impact Mitigation

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**For Full Printout of Draft River Basin  
Management Plan for South Western River  
Basin District, Refer to Original**

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**WASTE WATER DISCHARGE  
CERTIFICATE OF AUTHORISATION  
FOR  
COOLE EAST**

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**Section H**

# SECTION H

## DECLARATION

### Coole East Waste Discharge Certificate of Authorisation

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**SECTION H: DECLARATION**

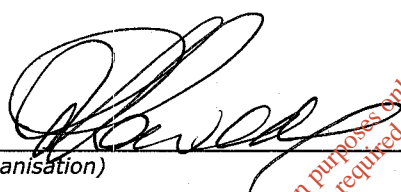
**Declaration**

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

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

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

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

Signed by :   
(on behalf of the organisation)

Date : 17 Dec 09

Print signature name: P. Power

Position in organisation: Director of Services

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