

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

**Discharge Point Code:** SW01-Bantry

Source of Emission:	Primary Discharge
Location:	Black Rock Bantry
Grid Ref. (12 digit, 6E, 6N):	E098665 N048326
Name of receiving waters:	Bantry Harbour
River Basin District:	South Western River Basin
Designation of receiving waters:	Designated Shellfish area in parts Of Harbour
Flow rate in receiving waters:	Harbour & Tidal area $\text{m}^3 \cdot \text{sec}^{-1}$ Dry Weather Flow $\text{m}^3 \cdot \text{sec}^{-1}$ 95%ile flow

**Emission Details:**

(i) Volume emitted			
Normal/day	1237 m <sup>3</sup>	Maximum/day	1350m <sup>3</sup>
Maximum rate/hour	m <sup>3</sup>	Period of emission (avg)	_____min/hr _____hr/day _____day/yr
Dry Weather Flow	m <sup>3</sup> /sec		

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

**Discharge Point Code:** SW01-Bantry

Number	Substance	As discharged	
		Max. daily average	
<b>1</b>	pH	6.5-8.5	
<b>2</b>	Temperature	30°C	
<b>3</b>	Electrical Conductivity(@25°C)	1500	
		Max. daily average (mg/l)	kg/day
<b>4</b>	Suspended Solids	500	675
<b>5</b>	Ammonia (as N)	Not applicable	Not applicable
<b>6</b>	Biochemical Oxygen Demand	300	405
<b>7</b>	Chemical Oxygen Demand	800	810
<b>8</b>	Total Nitrogen (as N)	100	135
<b>9</b>	Nitrite (as N)	Not applicable	Not applicable
<b>10</b>	Nitrate (as N)	Not applicable	Not applicable
<b>11</b>	Total Phosphorus (as P)	15	20.25
<b>12</b>	Orthophosphate (as P) <sup>Note 1</sup>	10	13.5
<b>13</b>	Sulphate (SO <sub>4</sub> )	Not applicable	Not applicable
<b>14</b>	Phenols (sum) <sup>Note 2</sup> (ug/l)	Not applicable	Not applicable

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

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

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

**Primary Discharge Point - Characteristics of the emission**

**Discharge Point Code: SW01-Bantry**

Number	Substance	As discharged		
		Max. daily average (µg/l)	kg/day*	kg/year*
1	Atrazine	Not applicable	Not applicable	Not applicable
2	Dichloromethane	Not applicable	Not applicable	Not applicable
3	Simazine	Not applicable	Not applicable	Not applicable
4	Toluene	Not applicable	Not applicable	Not applicable
5	Tributyltin	Not applicable	Not applicable	Not applicable
6	Xylenes	Not applicable	Not applicable	Not applicable
7	Arsenic	Not applicable	Not applicable	Not applicable
8	Chromium	Not applicable	Not applicable	Not applicable
9	Copper	Not applicable	Not applicable	Not applicable
10	Cyanide	Not applicable	Not applicable	Not applicable
11	Fluoride	Not applicable	Not applicable	Not applicable
12	Lead	Not applicable	Not applicable	Not applicable
13	Nickel	Not applicable	Not applicable	Not applicable
14	Zinc	Not applicable	Not applicable	Not applicable
15	Boron	Not applicable	Not applicable	Not applicable
16	Cadmium	Not applicable	Not applicable	Not applicable
17	Mercury	Not applicable	Not applicable	Not applicable
18	Selenium	Not applicable	Not applicable	Not applicable
19	Barium	Not applicable	Not applicable	Not applicable

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

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

**TABLE D.1(i)(a): EMISSIONS TO SURFACE/GROUND WATERS**  
**(Primary Discharge Point) (1 table per discharge point)**

**Discharge Point Code:** SW01 Bantry **PROPOSED**

Source of Emission:	Treated Wastewater from Treatment Plant
Location:	Off Coast of Blue Hill Bantry
Grid Ref. (12 digit, 6E, 6N):	E096802 N048205
Name of receiving waters:	Bantry Harbour
River Basin District:	South Western River Basin
Designation of receiving waters:	Designated Shellfish area in parts Of Harbour
Flow rate in receiving waters:	<u>Harbour &amp; Tidal area</u> _____ m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow _____ m <sup>3</sup> .sec <sup>-1</sup> 95%ile flow

**Emission Details:**

(i) Volume emitted			
Normal/day	1361m <sup>3</sup> /day	Maximum/day	8166m <sup>3</sup> /day
Maximum rate/hour	340m <sup>3</sup>	Period of emission (avg)	_____ min/hr _____ hr/day day/yr
Dry Weather Flow	0.016m <sup>3</sup> /sec		

**TABLE D.1(i)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of the emission (1 table per discharge point)**

**Discharge Point Code:** SW01 Bantry **PROPOSED**

Number	Substance	As discharged	
		Max. daily average	
1	pH	6.0 -9.0	n/a
2	Temperature	30 °C	n/a
3	Electrical Conductivity (@25°C)	3500	n/a
		Max. daily average (mg/l)	kg/day
4	Suspended Solids	35	285.8
5	Ammonia (as N)	Not applicable	Not available
6	Biochemical Oxygen Demand	25	204.2
7	Chemical Oxygen Demand	125	1017.5
8	Total Nitrogen (as N)	15	122.1
9	Nitrite (as N)	Not applicable	Not applicable
10	Nitrate (as N)	Not applicable	Not applicable
11	Total Phosphorus (as P) <sup>Note 1</sup>	Not applicable	Not applicable
12	Orthophosphate (as P)	Not applicable	Not applicable
13	Sulphate (SO <sub>4</sub> )	Not applicable	Not applicable
14	Phenols (sum) <sup>Note 2</sup> (ug/l)	Not applicable	Not applicable

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

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

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

**Primary Discharge Point - Characteristics of the emission (1 table per discharge point)**  
**Discharge Point Code: SW01 Bantry PROPOSED**

Number	Substance	As discharged		
		Max. daily average (µg/l)	kg/day	kg/year
<b>1</b>	Atrazine	Not applicable	Not applicable	Not applicable
<b>2</b>	Dichloromethane	Not applicable	Not applicable	Not applicable
<b>3</b>	Simazine	Not applicable	Not applicable	Not applicable
<b>4</b>	Toluene	Not applicable	Not applicable	Not applicable
<b>5</b>	Tributyltin	Not applicable	Not applicable	Not applicable
<b>6</b>	Xylenes	Not applicable	Not applicable	Not applicable
<b>7</b>	Arsenic	Not applicable	Not applicable	Not applicable
<b>8</b>	Chromium	Not applicable	Not applicable	Not applicable
<b>9</b>	Copper	Not applicable	Not applicable	Not applicable
<b>10</b>	Cyanide	Not applicable	Not applicable	Not applicable
<b>11</b>	Fluoride	Not applicable	Not applicable	Not applicable
<b>12</b>	Lead	Not applicable	Not applicable	Not applicable
<b>13</b>	Nickel	Not applicable	Not applicable	Not applicable
<b>14</b>	Zinc	Not applicable	Not applicable	Not applicable
<b>15</b>	Boron	Not applicable	Not applicable	Not applicable
<b>16</b>	Cadmium	Not applicable	Not applicable	Not applicable
<b>17</b>	Mercury	Not applicable	Not applicable	Not applicable
<b>18</b>	Selenium	Not applicable	Not applicable	Not applicable
<b>19</b>	Barium	Not applicable	Not applicable	Not applicable

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

**Discharge Point Code:** SW02Bantry

Source of Emission:	Emergency Overflow discharge from old Quay Pumping Station
Location:	Harbour Road Inner Bantry Harbour
Grid Ref. (12 digit, 6E, 6N):	E099274 N048609
Name of receiving waters:	Bantry Harbour
River Basin District:	South Western River Basin
Designation of receiving waters:	Designated Shellfish area in parts Of Harbour
Flow rate in receiving waters:	Harbour & Tidal area _____ m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow _____ m <sup>3</sup> .sec <sup>-1</sup> 95%ile flow

**Emission Details:**

(i) Volume emitted Not available			
Normal/day		Maximum/day	
Maximum rate/hour	m <sup>3</sup>	Period of emission (avg)	_____min/hr _____hr/day _____day/yr
Dry Weather Flow	m <sup>3</sup> /sec		

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

**Discharge Point Code:** SW02 Bantry

Number	Substance	As discharged	
		Max. daily average	
<b>1</b>	pH	Not available	n/a
<b>2</b>	Temperature	Not available	n/a
<b>3</b>	Electrical Conductivity (@25°C)	Not available	n/a
		Max. daily average (mg/l)	kg/day
<b>4</b>	Suspended Solids	Not available	Not available
<b>5</b>	Ammonia (as N)	Not available	Not available
<b>6</b>	Biochemical Oxygen Demand	Not available	Not available
<b>7</b>	Chemical Oxygen Demand	Not available	Not available
<b>8</b>	Total Nitrogen (as N)	Not available	Not available
<b>9</b>	Nitrite (as N)	Not available	Not available
<b>10</b>	Nitrate (as N)	Not available	Not available
<b>11</b>	Total Phosphorus (as P) <sup>Note 1</sup>	Not available	Not available
<b>12</b>	Orthophosphate (as P)	Not available	Not available
<b>13</b>	Sulphate (SO <sub>4</sub> )	Not available	Not available
<b>14</b>	Phenols (sum) <sup>Note 2</sup> (ug/l)	Not available	Not available

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

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



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

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

**Discharge Point Code:** SW02 Bantry

Number	Substance	As discharged		
		Max. daily average (µg/l)	kg/day	kg/year
1	Atrazine	Not available	Not available	Not available
2	Dichloromethane	Not available	Not available	Not available
3	Simazine	Not available	Not available	Not available
4	Toluene	Not available	Not available	Not available
5	Tributyltin	Not available	Not available	Not available
6	Xylenes	Not available	Not available	Not available
7	Arsenic	Not available	Not available	Not available
8	Chromium	Not available	Not available	Not available
9	Copper	Not available	Not available	Not available
10	Cyanide	Not available	Not available	Not available
11	Fluoride	Not available	Not available	Not available
12	Lead	Not available	Not available	Not available
13	Nickel	Not available	Not available	Not available
14	Zinc	Not available	Not available	Not available
15	Boron	Not available	Not available	Not available
16	Cadmium	Not available	Not available	Not available
17	Mercury	Not available	Not available	Not available
18	Selenium	Not available	Not available	Not available
19	Barium	Not available	Not available	Not available

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

**Discharge Point Code:** SW03 Bantry

Source of Emission:	discharge via open pipe to culverted river
Location:	Harbour Road Inner Bantry Harbour
Grid Ref. (12 digit, 6E, 6N):	E099733 N048352
Name of receiving waters:	Mill River
River Basin District:	South Western River Basin
Designation of receiving waters:	Designated Shellfish area in parts Of Harbour
Flow rate in receiving waters:	Harbour & Tidal area _____ m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow _____ m <sup>3</sup> .sec <sup>-1</sup> 95%ile flow

**Emission Details:**

(i) Volume emitted Not available			
Normal/day		Maximum/day	
Maximum rate/hour	m3	Period of emission (avg)	_____min/hr _____hr/day _____day/yr
Dry Weather Flow	m3/sec		

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

**Discharge Point Code:** SW03Bantry

Number	Substance	As discharged	
		Max. daily average	
<b>1</b>	pH	Not available	n/a
<b>2</b>	Temperature	Not available	n/a
<b>3</b>	Electrical Conductivity (@25°C)	Not available	n/a
		Max. daily average (mg/l)	kg/day
<b>4</b>	Suspended Solids	Not available	Not available
<b>5</b>	Ammonia (as N)	Not available	Not available
<b>6</b>	Biochemical Oxygen Demand	Not available	Not available
<b>7</b>	Chemical Oxygen Demand	Not available	Not available
<b>8</b>	Total Nitrogen (as N)	Not available	Not available
<b>9</b>	Nitrite (as N)	Not available	Not available
<b>10</b>	Nitrate (as N)	Not available	Not available
<b>11</b>	Total Phosphorus (as P) <sup>Note 1</sup>	Not available	Not available
<b>12</b>	Orthophosphate (as P)	Not available	Not available
<b>13</b>	Sulphate (SO <sub>4</sub> )	Not available	Not available
<b>14</b>	Phenols (sum) <sup>Note 2</sup> (ug/l)	Not available	Not available

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

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

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

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

**Discharge Point Code:** SW03 Bantry

Number	Substance	As discharged		
		Max. daily average (µg/l)	kg/day	kg/year
1	Atrazine	Not available	Not available	Not available
2	Dichloromethane	Not available	Not available	Not available
3	Simazine	Not available	Not available	Not available
4	Toluene	Not available	Not available	Not available
5	Tributyltin	Not available	Not available	Not available
6	Xylenes	Not available	Not available	Not available
7	Arsenic	Not available	Not available	Not available
8	Chromium	Not available	Not available	Not available
9	Copper	Not available	Not available	Not available
10	Cyanide	Not available	Not available	Not available
11	Fluoride	Not available	Not available	Not available
12	Lead	Not available	Not available	Not available
13	Nickel	Not available	Not available	Not available
14	Zinc	Not available	Not available	Not available
15	Boron	Not available	Not available	Not available
16	Cadmium	Not available	Not available	Not available
17	Mercury	Not available	Not available	Not available
18	Selenium	Not available	Not available	Not available
19	Barium	Not available	Not available	Not available

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

**Discharge Point Code:** SW04 Bantry

Source of Emission:	discharge via open pipe to culverted river
Location:	Alley River
Grid Ref. (12 digit, 6E, 6N):	E099761 N048432
Name of receiving waters:	Alley River
River Basin District:	South Western River Basin
Designation of receiving waters:	Designated Shellfish area in parts Of Harbour
Flow rate in receiving waters:	Harbour & Tidal area _____ m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow _____ m <sup>3</sup> .sec <sup>-1</sup> 95%ile flow

**Emission Details:**

(i) Volume emitted Not available			
Normal/day		Maximum/day	
Maximum rate/hour	m3	Period of emission (avg)	_____min/hr _____hr/day _____day/yr
Dry Weather Flow	m3/sec		

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

**Discharge Point Code:** SW04Bantry

Number	Substance	As discharged	
		Max. daily average	
1	pH	Not available	n/a
2	Temperature	Not available	n/a
3	Electrical Conductivity (@25°C)	Not available	n/a
		Max. daily average (mg/l)	kg/day
4	Suspended Solids	Not available	Not available
5	Ammonia (as N)	Not available	Not available
6	Biochemical Oxygen Demand	Not available	Not available
7	Chemical Oxygen Demand	Not available	Not available
8	Total Nitrogen (as N)	Not available	Not available
9	Nitrite (as N)	Not available	Not available
10	Nitrate (as N)	Not available	Not available
11	Total Phosphorus (as P) <sup>Note 1</sup>	Not available	Not available
12	Orthophosphate (as P)	Not available	Not available
13	Sulphate (SO <sub>4</sub> )	Not available	Not available
14	Phenols (sum) <sup>Note 2</sup> (ug/l)	Not available	Not available

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

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

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

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

**Discharge Point Code:** SW04 Bantry

Number	Substance	As discharged		
		Max. daily average ( $\mu\text{g/l}$ )	kg/day	kg/year
1	Atrazine	Not available	Not available	Not available
2	Dichloromethane	Not available	Not available	Not available
3	Simazine	Not available	Not available	Not available
4	Toluene	Not available	Not available	Not available
5	Tributyltin	Not available	Not available	Not available
6	Xylenes	Not available	Not available	Not available
7	Arsenic	Not available	Not available	Not available
8	Chromium	Not available	Not available	Not available
9	Copper	Not available	Not available	Not available
10	Cyanide	Not available	Not available	Not available
11	Fluoride	Not available	Not available	Not available
12	Lead	Not available	Not available	Not available
13	Nickel	Not available	Not available	Not available
14	Zinc	Not available	Not available	Not available
15	Boron	Not available	Not available	Not available
16	Cadmium	Not available	Not available	Not available
17	Mercury	Not available	Not available	Not available
18	Selenium	Not available	Not available	Not available
19	Barium	Not available	Not available	Not available

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

**Discharge Point Code:** SW05 Bantry

Source of Emission:	Emergency Overflow from Reenrou Pumping station
Location:	Cove at Reenrou
Grid Ref. (12 digit, 6E, 6N):	E099507 N049248
Name of receiving waters:	Inner Bantry Bay
River Basin District:	South Western River Basin
Designation of receiving waters:	Designated Shellfish area in parts Of Harbour
Flow rate in receiving waters:	Harbour & Tidal area _____ m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow _____ m <sup>3</sup> .sec <sup>-1</sup> 95%ile flow

**Emission Details:**

(i) Volume emitted Not available			
Normal/day		Maximum/day	
Maximum rate/hour	m3	Period of emission (avg)	_____min/hr _____hr/day _____day/yr
Dry Weather Flow	m3/sec		



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

**Discharge Point Code:** SW05Bantry

Number	Substance	As discharged	
		Max. daily average	
<b>1</b>	pH	Not available	n/a
<b>2</b>	Temperature	Not available	n/a
<b>3</b>	Electrical Conductivity (@25°C)	Not available	n/a
		Max. daily average (mg/l)	kg/day
<b>4</b>	Suspended Solids	Not available	Not available
<b>5</b>	Ammonia (as N)	Not available	Not available
<b>6</b>	Biochemical Oxygen Demand	Not available	Not available
<b>7</b>	Chemical Oxygen Demand	Not available	Not available
<b>8</b>	Total Nitrogen (as N)	Not available	Not available
<b>9</b>	Nitrite (as N)	Not available	Not available
<b>10</b>	Nitrate (as N)	Not available	Not available
<b>11</b>	Total Phosphorus (as P) <sup>Note 1</sup>	Not available	Not available
<b>12</b>	Orthophosphate (as P)	Not available	Not available
<b>13</b>	Sulphate (SO <sub>4</sub> )	Not available	Not available
<b>14</b>	Phenols (sum) <sup>Note 2</sup> (ug/l)	Not available	Not available

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

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

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

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

**Discharge Point Code:** SW05 Bantry

Number	Substance	As discharged		
		Max. daily average (µg/l)	kg/day	kg/year
1	Atrazine	Not available	Not available	Not available
2	Dichloromethane	Not available	Not available	Not available
3	Simazine	Not available	Not available	Not available
4	Toluene	Not available	Not available	Not available
5	Tributyltin	Not available	Not available	Not available
6	Xylenes	Not available	Not available	Not available
7	Arsenic	Not available	Not available	Not available
8	Chromium	Not available	Not available	Not available
9	Copper	Not available	Not available	Not available
10	Cyanide	Not available	Not available	Not available
11	Fluoride	Not available	Not available	Not available
12	Lead	Not available	Not available	Not available
13	Nickel	Not available	Not available	Not available
14	Zinc	Not available	Not available	Not available
15	Boron	Not available	Not available	Not available
16	Cadmium	Not available	Not available	Not available
17	Mercury	Not available	Not available	Not available
18	Selenium	Not available	Not available	Not available
19	Barium	Not available	Not available	Not available

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

**Discharge Point Code:** SW06 Bantry

Source of Emission:	Emergency Overflow from IDA pumping station
Location:	Kilnaruane
Grid Ref. (12 digit, 6E, 6N):	E098918 N047734
Name of receiving waters:	Unnamed Stream In Bantry
River Basin District:	South Western River Basin
Designation of receiving waters:	Designated Shellfish area in parts Of Harbour
Flow rate in receiving waters:	Harbour & Tidal area _____ m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow _____ m <sup>3</sup> .sec <sup>-1</sup> 95%ile flow

**Emission Details:**

(i) Volume emitted Not available			
Normal/day		Maximum/day	
Maximum rate/hour	m3	Period of emission (avg)	_____min/hr _____hr/day day/yr
Dry Weather Flow	m3/sec		

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

**Discharge Point Code:** SW06 Bantry

Number	Substance	As discharged	
		Max. daily average	
1	pH	Not available	n/a
2	Temperature	Not available	n/a
3	Electrical Conductivity (@25°C)	Not available	n/a
		Max. daily average (mg/l)	kg/day
4	Suspended Solids	Not available	Not available
5	Ammonia (as N)	Not available	Not available
6	Biochemical Oxygen Demand	Not available	Not available
7	Chemical Oxygen Demand	Not available	Not available
8	Total Nitrogen (as N)	Not available	Not available
9	Nitrite (as N)	Not available	Not available
10	Nitrate (as N)	Not available	Not available
11	Total Phosphorus (as P) <sup>Note 1</sup>	Not available	Not available
12	Orthophosphate (as P)	Not available	Not available
13	Sulphate (SO <sub>4</sub> )	Not available	Not available
14	Phenols (sum) <sup>Note 2</sup> (ug/l)	Not available	Not available

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

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

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

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

**Discharge Point Code:** SW06 Bantry

Number	Substance	As discharged		
		Max. daily average (µg/l)	kg/day	kg/year
1	Atrazine	Not available	Not available	Not available
2	Dichloromethane	Not available	Not available	Not available
3	Simazine	Not available	Not available	Not available
4	Toluene	Not available	Not available	Not available
5	Tributyltin	Not available	Not available	Not available
6	Xylenes	Not available	Not available	Not available
7	Arsenic	Not available	Not available	Not available
8	Chromium	Not available	Not available	Not available
9	Copper	Not available	Not available	Not available
10	Cyanide	Not available	Not available	Not available
11	Fluoride	Not available	Not available	Not available
12	Lead	Not available	Not available	Not available
13	Nickel	Not available	Not available	Not available
14	Zinc	Not available	Not available	Not available
15	Boron	Not available	Not available	Not available
16	Cadmium	Not available	Not available	Not available
17	Mercury	Not available	Not available	Not available
18	Selenium	Not available	Not available	Not available
19	Barium	Not available	Not available	Not available

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

**Discharge Point Code:** SW07 Bantry

Source of Emission:	Storm water Overflow
Location:	Marino Street
Grid Ref. (12 digit, 6E, 6N):	E099758 N048455
Name of receiving waters:	Bantry Harbour
River Basin District:	South Western River Basin
Designation of receiving waters:	Designated Shellfish area in parts Of Harbour
Flow rate in receiving waters:	_____m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow _____m <sup>3</sup> .sec <sup>-1</sup> 95%ile flow

**Emission Details:**

(i) Volume emitted			
Normal/day	m <sup>3</sup>	Maximum/day	m <sup>3</sup>
Maximum rate/hour	m <sup>3</sup>	Period of emission (avg)	_____min/hr _____hr/day _____day/yr

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

**Discharge Point Code:** SW08 Bantry

Source of Emission:	Stormwater Overflow
Location:	William Street
Grid Ref. (12 digit, 6E, 6N):	E099626 N048388
Name of receiving waters:	Bantry harbour
River Basin District:	South Western River Basin
Designation of receiving waters:	Designated Shellfish area in parts Of Harbour
Flow rate in receiving waters:	Tidal are _____m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow _____m <sup>3</sup> .sec <sup>-1</sup> 95%ile flow

**Emission Details:**

(i) Volume emitted Not available			
Normal/day	m <sup>3</sup>	Maximum/day	m <sup>3</sup>
Maximum rate/hour	m <sup>3</sup>	Period of emission (avg)	_____min/hr _____hr/day _____day/yr

**Table D.2: Tabular Data on Discharge Points**

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 Overflow)	Local Authority Name (e.g., Donegal County Council)	Receiving Water Body Type (e.g., River, Lake, Groundwater, Transitional, Coastal)	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
SW1BANT	Primary	Cork County Council	Coastal	Bantry Bay	Shellfish Area (S.I No. 268 of 2006)	98665	48326
SW1BANT - Future	Primary	Cork County Council	Coastal	Bantry Bay	Shellfish Area (S.I No. 268 of 2006)	96802	48205
SW2BANT	Secondary	Cork County Council	Transitional	Inner Bantry Harbour		99274	48609
SW3BANT	Secondary	Cork County Council	River	Mill River		99733	48352
SW4BANT	Secondary	Cork County Council	River	Alley River		99761	48432
SW5BANT	Secondary	Cork County Council	Coastal	Inner Bantry Bay		99507	49248
SW6BANT	Secondary	Cork County Council	Stream	unknown		98918	47734
SW7BANT	Storm Water Overflow	Cork County Council	Storm Sewer to Inner Harbour	Inner Bantry Harbour		99758	48455
SW8BANT	Storm Water Overflow	Cork County Council	Storm Sewer to Inner Harbour	Inner Bantry Harbour		99626	48388



**Attachment E3 - Tabular data on Monitoring and Sampling Points**

<b>PT_CD</b>	<b>PT_TYPE</b>	<b>MON_TYPE</b>	<b>Easting</b>	<b>Northing</b>	<b>Verified</b>
Point Code Provide label ID's assigned in section E of application	Point Type (e.g., Primary, Secondary, Storm Water Overflow)	Monitoring Type M = Monitoring S = Sampling	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used
SW1BANT	Primary	S	98665	48326	N
SW3dBANT	Secondary	S	99414	48536	Y
SW1BANT - Future	Primary	S	96802	48205	N
SW1uBANT - Future	Primary	S	96660	48050	N
SW1dBANT - Future	Primary	S	96995	48340	N

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## Attachment E4 Bantry Sample Data

Sample Date	02/07/2008	30/07/2008		02/07/2008	30/07/2008	
Sample	Outfall no. 2	Outfall no. 2	Average	Outfall No 1	outfall No 1	Average
	Stream Culvert	Stream Culvert		Manhole Below Pumphouse	Manhole Below Pumphouse	
Flow M <sup>3</sup> /Day	*	*	*	*	*	
pH	7.3	7.6	7.45	*	7.3	
Temperature °C	*	*	*	*	*	
Cond 20°C	718	4890	2804	3910	2600	3255
SS mg/L	14	7	10.5	278	110	194
NH <sub>3</sub> mg/L	1.8	0.3	1.05	11.7	13.9	12.8
BOD mg/L	6	6.26	6.13	181	138.3	159.65
COD mg/L	31	23	27	380	247	313.5
TN mg/L	1	8.922	4.961	59	36.682	47.841
Nitrite mg/L	*	0.022	0.022	*	0.052	0.052
Nitrate mg/L	*	8.1	8.1	*	<1.78	<1.78
TP mg/L	0.46	<0.2	0.46	3.7	2.41	3.055
O-PO4-P mg/L	0.26	0.05	0.155	1.75	1.42	1.585
SO4 mg/L	31.7	229.3	130.5	172.1	111.9	142
Phenols µg/L	*	<0.1	<0.1	*	8.06	8.06
Atrazine µg/L	*	<0.01	<0.01	*	<0.01	<0.01
Dichloromethane	*	<1.0	<1.0	*	<1.0	<1.0
Simazine µg/L	*	<0.01	<0.01	*	<0.01	<0.01
Toluene µg/L	*	<1.0	<1.0	*	<1.0	<1.0
Tributyltin µg/L	*	<0.02	<0.02	*	<0.02	<0.02
Xylenes µg/L	*	<1.0	<1.0	*	<1.0	<1.0
Arsenic µg/L	*	2	2	*	8	8
Chromium mg/L	*	0.048	0.048	*	<0.01	<0.01
Copper mg/L	*	<0.02	<0.02	*	0.0477	0.0477
Cyanide µg/L	*	<5.0	<5.0	*	>5.0	<5.0
Fluoride	*	0.09	0.09	*	37	37
Lead mg/L	*	0.037	0.037	*	0.0062	0.0062
Nickel mg/L	*	<0.02	<0.02	*	<0.005	<0.005
Zinc mg/L	*	<0.02	<0.02	*	0.1892	0.1892
Boron mg/L	*	0.256	0.256	*	0.26	0.26
Cadmium mg/L	*	<0.02	<0.02	*	<0.001	<0.001
Mercury µg/L	*	<0.2	<0.2	*	<0.2	<0.2
Selenium µg/L	*	7	7	*	29	29
Barium mg/L	*	0.028	0.028	*	0.0232	0.0232

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Attachment E 4 Mealagh Water Quality River Data

Parameter	Molybdate	Ammonium	Nitrate	Nitrite	Appearance	Temperature	Dissolved O2	Dissolved % O2	pH	BOD	Colour	Chloride	Conductivity	Hardness	Alkalinity	Mg	Ca
	P	NH4	NO3	NO2		Degrees C	mg/l	% O2	pH units	mg/l	Hazen	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l
Max.	Varies	Varies	Varies	0.05	--	--	15	150	Varies	Varies	Varies	--	--	--	--	--	--
Target	--	--	--	--	--	--	5	50	Varies	--	--	--	--	--	--	--	--
Min.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Comments	mg/l	mg/l	mg/l	mg/l	Descriptive	Degrees C	mg/l	% O2	pH units	mg/l	Hazen	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l
	0.008	0.045	2.7	< 0.013		5.8	12.9	102	7.2	0.8	28	22.8	115	38		2.07	8.6
	0.006	< 0.026	1.8			15.9	9.1	91.3	7.3	0.6	172	16.2	102	59	24		
	0.018	0.052	2.3	0.024		16.1	9.6	97	7.2	2.5	24	17.7	118	50	28		
	0.007	0.026	< 1.8	< 0.013	clear	11.7	7.2	100	7.3	0.5	47	16.8	107	60	24		
	< 0.006	< 0.026	3.8	< 0.013		6.5	12.9	106	7.3	0.3		25.5	127	32	22		
	< 0.006	< 0.026	2.2	0.027		15.5	8.1	81	7.4	0.3		21.2	120	31	24		

Project	Location	Location R	Sample Te	Sample Referen	Sample Da
Mealagh	Dunamark Br	21M01040i	WFD Oper	2007/0548	20-Mar-07
Mealagh	Dunamark Br	21M01040i	WFD Oper	2007/1296	10-Jul-07
Mealagh	Dunamark Br	21M01040i	WFD Oper	2007/2071	09-Oct-07
Mealagh	Dunamark Br	21M01040i	WFD Oper	2007/2324	05-Nov-07
Mealagh	Dunamark Br	21M01040i	WFD Oper	2008/0426	12-Mar-08
Mealagh	Dunamark Br	21M01040i	WFD Oper	2008/0954	14-May-08

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