Attachment C.2

SECTION C2: OUTFALL CONSTRUCTION AND DESIGN

Table of Attachments

Item	Title	Drg. No.
1	Outfall Details	Drg. No.
		C2-22

The following construction drawings are taken from the Skibbereen Sewerage Scheme – Collection System contract documents. The drawings are not printed to scale and do not follow the numbering sequence used throughout this application. They are merely included to provide a better understanding of the principles of operation in the Skibbereen Sewerage Scheme.

Item	Title	Drg. No.
2	Special Manholes and Scour Valve Chamber	Drg. No.
		75
3	Interim Pumping Arrangement Main Pumping	Drg. No.
	Station & Storm Holding Tank Site Layout	410A
4	Interim Pumping Arrangement Proposed Section	Drg. No.
	& Details	410A

Consett of copyright owner required for any other

TIDAL WATER LEVEL (mOD)				
MEAN HIGH WATER SPRING (MHWS)	1.37m			
MEAN HIGH WATER NEAP (MHWN)	0.77m			
MEAN HIGH WATER NEAP (MHWN)	-0.73m			
MEAN LOW WATER SPRING (MLWS)	-1.53m			

Ref	DESCRIPTION	PIPE Ø / mm	BARREL Ø / mm	PIPE MATERIAL	OUTFALL I.L. mOD	BED LEVEL mOD	LEVEL AT TOP OF BANK mOD	W/mm	H/mm
1	EMERGENCY STORM TANK OVERFLOW TO THE RIVER ILEN	1000	1050	D.I.	0.68	-0.05	2.00	2000	1320
2	EMERGENCY INLET MANHOLE OVERFLOW TO THE RIVER ILEN	750	790	D.I.	-0.005	-0.05	2.10	1500	2100
3	OVERFLOW FROM CORONEA PUMPING STATION	375	480	P.C.C.	-0.32	-0.32	1.27	NO NON-R VALVE RE	
4	EMERGENCY OVERFLOW FROM Mh.9401 ON MARSH ROAD	225	290	P.C.C.	1.56	1.385	N/A OVERFLOW PIPE CONNECTED TO CULVERT		
5	EMERGENCY OVERFLOW FROM Mh. 6303 ON GLENCURRAGH ROAD	225	290	P.C.C.	0.90	0.80	1.70	1000	800
6	EMERGENCY OVERFLOW FROM SCOUR CHAMBER ON 300¢ RISING MAIN.	150	206	D.I.	1.05	-1.58	1.56	1000	500
7	MILL ROAD PUMPING STATION EMERGENCY OVERFLOW	150	206	P.C.C.	2.16	1.07	2.80	1000	900

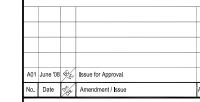
OUTFALL SCHEDULE

EXISTING RIVER/STREAM BANK SIDE SLOPE EXISTING RIVER/STREAM
BANK SIDE SLOPE CHECK VALVES BY TIDEFLEX O
EQUIVALENT

MHWN
=.77m0D INVERT LEVEL LENGTH VARIES WITH EXISTING BANK SIDE SLOPES

TYPICAL SECTION B-B THROUGH LOCALLY QUARRIED NATURAL STONE FACING **SCALE 1/50**

SECTION A-A SCALE 1/50





NOTES

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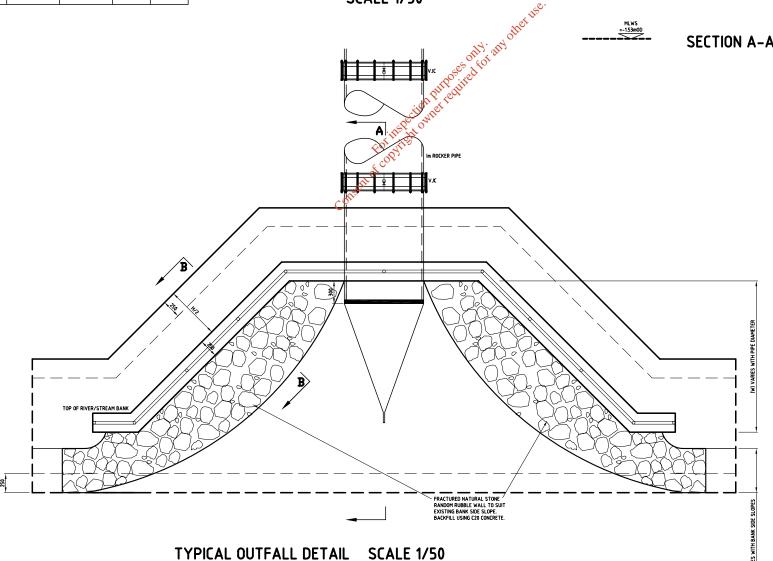
RPS Consulting Engineers, Innishmore, Ballincollig, Co. Cork, Ireland. T: +353 21 487 0200 - F: +353 21 487 3742 E: ireland@rpsgroup.com - W: www.rpsgroup.com/ireland

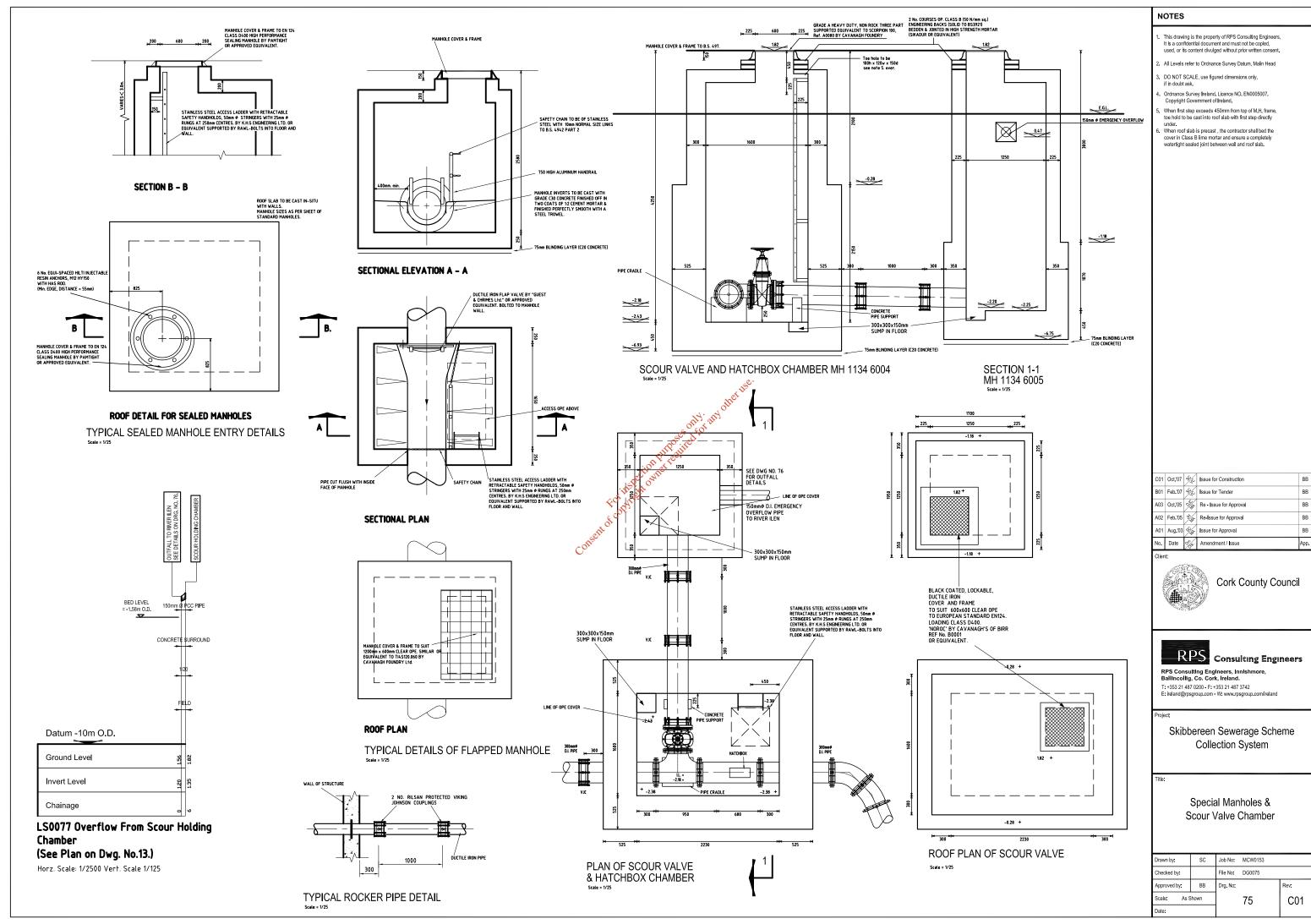
Skibbereen Wastewater Discharge Licence Application

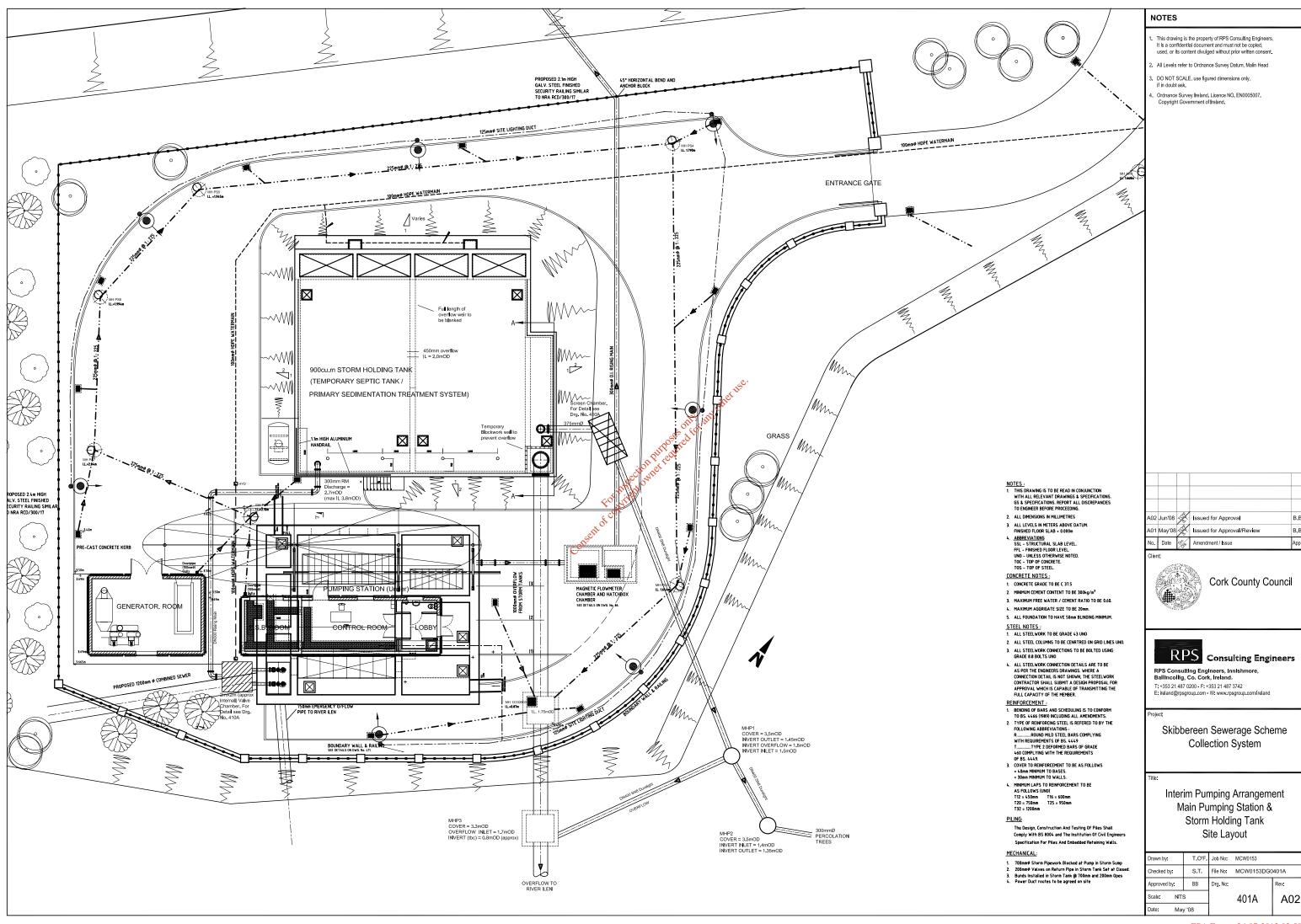
Attachment C2

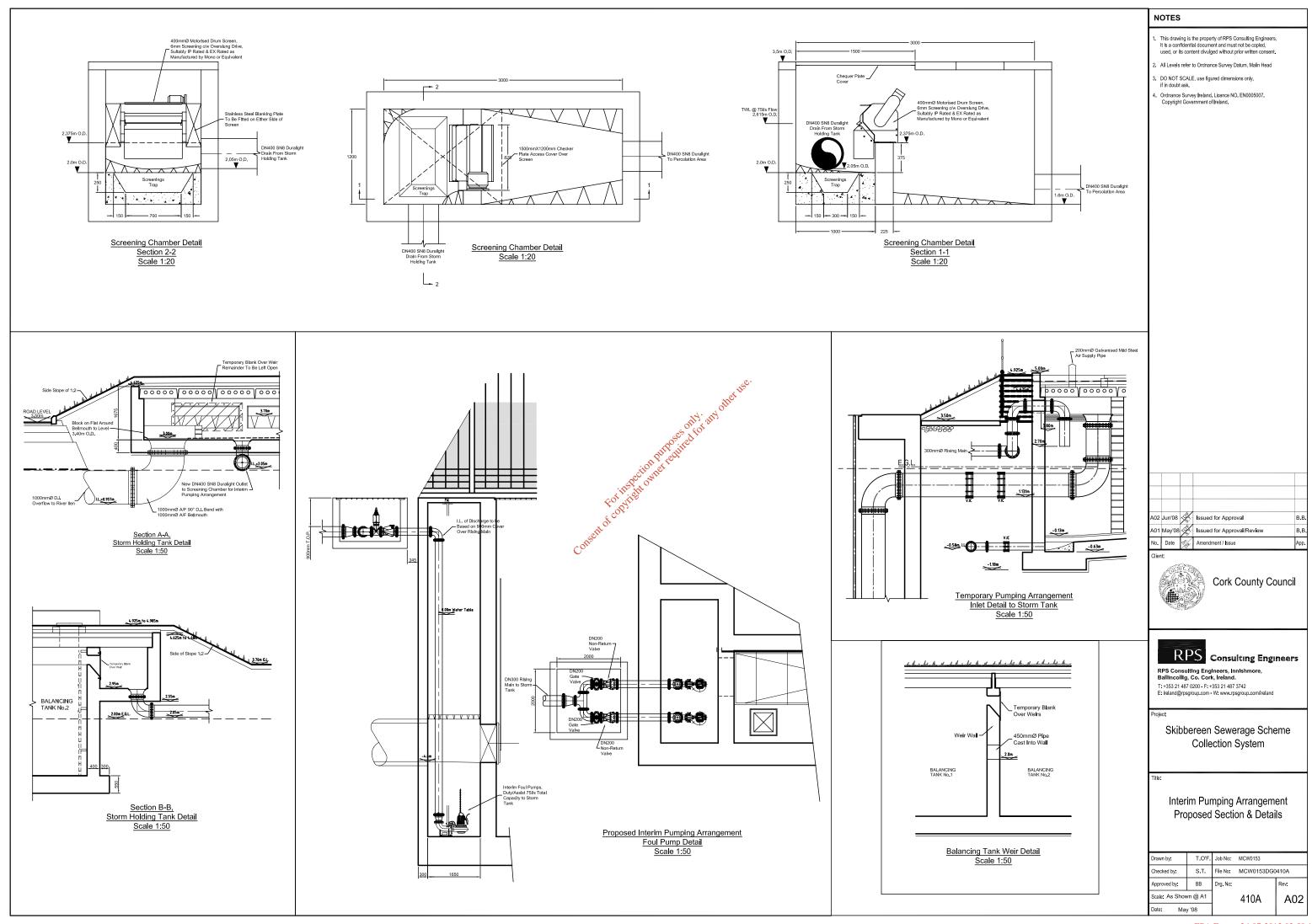
Outfall Details

Approved by: Scale: AS	BB SHOWN	Drg. No:	SKIB	A01
Checked by:	MA	File No:	DG0009	1_
Drawn by:	BC	Job No:	MCW0538	









Attachment D.1

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

Discharge Point Code: <u>SW01 Skibereen</u> p	proposed
---	----------

Source of Emission:	Pr	rimary Discharge from trea	atment Plant				
Location:	2	2 Km west of the town centre, Coronea Townland					
Grid Ref. (12 digit, 68	E, 6N):	E110589 N033838					
Name of receiving wa	iters:	en River	At a offer a				
River Basin District:	Sc	South Western River Basin District					
Designation of receiving waters:		one tion pure gain					
Flow rate in receiving waters:		For inspection of the Copyright of the C	0.16m³.sec ⁻¹ Dry Weather Flow m³.sec ⁻¹ 95%ile flow				
Emission Details:		CODE SHIP					
(i) Volume emitted							
Normal/day	3240m ³	Maximum/day	3240m ³				
Maximum rate/hour	135m³	Period of emission (avg)	60min/hr24hr/day365day/yr				
Dry Weather Flow	0.0125m³/sec						

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

Discharge Point Code: <u>SW01Skibereen Proposed</u>

Number	Substance	As discharged		
		Max. daily average		
1	pH	6.0 -8.5		
2	Temperature	30°C		
3	Electrical Conductivity(@25°C)	1000		
		Max. daily average (mg/l)	kg/day	
4	Suspended Solids	35 and 18	113.4	
5	Ammonia (as N)	Not applicable	Not applicable	
6	Biochemical Oxygen Demand	25 th at 2	81	
7	Chemical Oxygen Demand	25	405	
8	Total Nitrogen (as N)	pui 015	48.6	
9	Nitrite (as N)	Not applicable	Not applicable	
10	Nitrate (as N)	Not applicable	Not applicable	
11	Total Phosphorus (as P)	2.0	6.78	
12	Orthophosphate (as P)Note 1	1.7	5.51	
13	Sulphate (SO ₄)	Not applicable	Not applicable	
14	Phenols (sum) Note 2 (ug/l)	Not applicable	Not applicable	

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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: <u>SW01 Skibbereen Proposed</u>

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	Notapplicable	Not applicable	
8	Chromium	Not applicable	Not applicable	Not applicable	
9	Copper	Not applicable	Not applicable	Not applicable	
10	Cyanide	Not applicable The American	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 $0.45\mu m$ filter paper.

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

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

Discharge Point Code: SW02 Skibbereen Interim

Source of Emission:	Interim primary discharge to temporary percolation area			
Location:	Main Pumping Station ,The Marsh ,Skibbereen			
Grid Ref. (12 digit, 6E, 6N):	E112218 N033886			
Name of receiving waters:	Ilen River			
River Basin District:	South Western River Basin District			
Designation of receiving waters:	None Open of the state of the s			
Flow rate in receiving waters:	m³.sec ⁻¹ Dry Weather Flow			
	0.29 m ³ .sec ⁻¹ 95%ile flow			

Emission Details:

(i) Volume emitted						
Normal/day	3240m ³	Maximum/day	3240m ³			
Maximum rate/hour	135m ³	Period of emission (avg)	60min/hr <u>24</u> hr/day <u>365</u> day/yr			
Dry Weather Flow	0.0125m ³ /sec					

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

Discharge Point Code: <u>SW02 Skibbereen Interim</u>

Number	Substance	As discharged		
		Max. daily average		
1	pH	6.0 -8.5		
2	Temperature	30°C		
3	Electrical Conductivity(@25°C)	1000		
		Max. daily average (mg/l)	kg/day	
4	Suspended Solids	200	648	
5	Ammonia (as N)	Not applicable	Not applicable	
6	Biochemical Oxygen Demand	250 1 1017	810	
7	Chemical Oxygen Demand	\$00°	1620	
8	Total Nitrogen (as N)	guild us 0	162	
9	Nitrite (as N)	Not applicable	Not applicable	
10	Nitrate (as N)	Not applicable	Not applicable	
11	Total Phosphorus (as P)	at it ight 12	38.9	
12	Orthophosphate (as P) Note 1	10	32.4	
13	Sulphate (SO ₄)	Not applicable	Not applicable	
14	Phenols (sum) Note 2 (ug/l)	Not applicable	Not applicable	

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

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

Primary Discharge Point -Characteristics of the emission Discharge Point Code:____ SW02 Skibbereen Interim

Number	Substance		As discharge	ed
		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	Notapplicable	Not applicable
7	Arsenic	Not applicable	Notapplicable	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 $0.45\mu m$ filter paper. Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

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

Discharge Point Code: <u>SW03 Skibbereen</u>

Source of Emission:	Emergency Overflow from Inlet Manhole at Main Pumping Station		
Location:	The Marsh, Skibbereen		
Grid Ref. (12 digit, 6E, 6N):	E112228 N033824 Net 1386.		
Name of receiving waters:	Ilen River		
River Basin District:	South Western River Basin District		
Designation of receiving waters:	None specific territoria de la companya de la compa		
Flow rate in receiving waters:	tot it it is a constant of the		

Emission Details:

(i) Volume emitted not		ailable	
Normal/day	m ³	Maximum/day	Not available m ³
Maximum rate/hour	m ³	Period of emission (avg)	min/hrhr/dayday/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: <u>SW03 Skibbereen</u>

Number	Substance	As discharged	
		Max. daily average	
1	рН	Not available	
2	Temperature	Not available	
3	Electrical Conductivity (@25°C)	Not available	
		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 and hit	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) Note 1	Not available	Not available
12	Orthophosphate (as P)	Notavailable	Not available
13	Sulphate (SO ₄)	Not available	Not available
14	Phenols (sum) Note 2 (ug/l)	Not available	Not available

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

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: <u>SW03 Skibbereen</u>

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: <u>SW05 Skibbereen</u>

Source of Emission:	Emergency Overflow from Coronea Pumping Station		
Location:	Riverdale ,Coronea, Skibbereen		
Grid Ref. (12 digit, 6E, 6N):	E111569 N034045		
Name of receiving waters:	Ilen River		
River Basin District:	South Western River Basin District		
Designation of receiving waters:	None OSE OF TRAINING TO THE OSE OF TRAINING THE		
Flow rate in receiving waters:	iton pure teacher 10.16 m³.sec-1 Dry Weather Flow		
	m ³ .sec ⁻¹ 95%ile flow		

Emission Details:

(i) Volume emitte	(i) Volume emitted not available Consent					
Normal/day	m ³	Maximum/day	Not available m ³			
Maximum rate/hour	m ³	Period of emission (avg)	min/hrhr/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: <u>SW05 Skibbereen</u>

Number	Substance	As discharged		
		Max. daily average		
1	pH	Not available		
2	Temperature	Not available		
3	Electrical Conductivity (@25°C)	Not available		
		Max. daily average (mg/l)	kg/day	
4	Suspended Solids	Not available of the state of t	Not available	
5	Ammonia (as N)	Not availabile	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) Note 1	Not available	Not available	
12	Orthophosphate (as P)	Not available	Not available	
13	Sulphate (SO ₄)	Not available	Not available	
14	Phenols (sum) Note 2 (ug/l)	Not available	Not available	

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

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: <u>SW05 Skibbereen</u>

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
8	Chromium	Not available	Not available	Not available
9	Copper	Not available in the	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 🕯 vailable	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 Skibbereen

Source of Emission:	Emergency Overflow		
Location:	Glencurragh Road		
Grid Ref. (12 digit, 6E, 6N):	E111638 N034323		
Name of receiving waters:	Ilen River		
River Basin District:	South Western River Basin District		
Designation of receiving waters:	None specific to the same of t		
Flow rate in receiving waters:	m³.sec ⁻¹ Dry Weather Flow		
	m³.sec ⁻¹ 95%ile flow		

Emission Details:

(i) Volume emitted Not available				
Normal/day m³ Maximum/day Not av			Not available m ³	
Maximum rate/hour	m ³	Period of emission (avg)	min/hrhr/dayday/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 Skibbereen

Number	Substance	As discharged		
		Max. daily average		
1	pH	Not available		
2	Temperature	Not available		
3	Electrical Conductivity (@25°C)	Not available		
		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) Note 1	Not available	Not available	
12	Orthophosphate (as P)	Not available	Not available	
13	Sulphate (SO ₄)	Not available	Not available	
14	Phenols (sum) Note 2 (ug/l)	Not available	Not available	

Cork County Council

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

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 Skibbereen

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 1	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 âvailable	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: <u>SW07 Skibbereen</u>

Source of Emission:	Emergency Overflow
Location:	Marsh Road
Grid Ref. (12 digit, 6E, 6N):	E111974 N034385
Name of receiving waters:	ILEN RIVER ON THE ONE OF THE PROPERTY OF THE P
River Basin District:	South Western River Basin District
Designation of receiving waters:	none gecitative terms
Flow rate in receiving waters:	0.16 m³.sec ⁻¹ Dry Weather Flow

Emission Details:

(i) Volume emitte	(i) Volume emitted No data available						
Normal/day	m ³	Maximum/day			m ³		
Maximum rate/hour	m ³	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: SW07 Skibbereen

Number	Substance	As discharged		
		Max. daily average		
1	pH	Not available		
2	Temperature	Not available		
3	Electrical Conductivity (@25°C)	Not available		
		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	Notavailable	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) Note 1	Not available	Not available	
12	Orthophosphate (as P)	Not available	Not available	
13	Sulphate (SO ₄)	Not available	Not available	
14	Phenols (sum) Note 2 (ug/l)	Not available	Not available	

Cork County Council

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

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: <u>SW07 Skibbereen</u>

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		
8	Chromium	Not available	Not available	Not available		
9	Copper	Not available in the	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 🕯 vailable	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 tab

Discharge Point Code: SW08 Skibbereen (1 table per discharge point)

Source of Emission:	Emergency Overflow from Mill Road Pumping Station			
Location:	Mill Road ,Skibbereen			
Grid Ref. (12 digit, 6E, 6N):	E112436 N034612			
Name of receiving waters:	Ilen River			
River Basin District:	South Western River Basin District			
Designation of receiving waters:	None Open did for any			
Flow rate in receiving waters:	0.16 m³.sec ⁻¹ Dry Weather Flow 0.29 m³.sec ⁻¹ 95%ile flow			
	0.16 m' sec bry weather Flow on the control of the			
Emission Details:				
(i) Volume emitted No data available				

(i) Volume emitte	(i) Volume emitted No data available Confert						
Normal/day	m ³	Maximum/day	m ³				
Maximum rate/hour	m ³	Period of emission (avg)	min/hrhr/dayday/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: <u>SW08 Skibbereen</u>

Number	Substance	As discharged		
		Max. daily average		
1	pH	Not available		
2	Temperature	Not available		
3	Electrical Conductivity (@25°C)	Not available		
		Max. daily average (mg/l)	kg/day	
4	Suspended Solids	Not available of the same of t	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) Note 1	Not available	Not available	
12	Orthophosphate (as P)	Not available	Not available	
13	Sulphate (SO ₄)	Not available	Not available	
14	Phenols (sum) Note 2 (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.

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: <u>SW08 Skibbereen</u>

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	Mot 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 🔐 ailable	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: <u>SW09 Skibbereen</u>

Source of Emission:	Emergency overflow from Scour Holding Tank
Location:	Riverdale
Grid Ref. (12 digit, 6E, 6N):	E11628 N034024
Name of receiving waters:	Ilen River
River Basin District:	South Western River Basin District
Designation of receiving waters:	None Purpostived to
Flow rate in receiving waters:	0.16 m³.sec ⁻¹ Dry Weather Flow 6.29 m³.sec ⁻¹ 95%ile flow

Emission Details:

(i) Volume emitted no data available						
Normal/day	m ³	Maximum/day			m ³	
Maximum rate/hour	m ³	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: <u>SW09 Skibbereen</u>

Number	Substance	As discharged		
		Max. daily average		
1	pН	Not available		
2	Temperature	Not available		
3	Electrical Conductivity (@25°C)	Not available		
		Max. daily average (mg/l)	kg/day	
4	Suspended Solids	Not available of the state of t	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) Note 1	Not available	Not available	
12	Orthophosphate (as P)	Not available	Not available	
13	Sulphate (SO ₄)	Not available	Not available	
14	Phenols (sum) Note 2 (ug/l)	Not available	Not available	

Cork County Council

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

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: SW09 Skibbereen

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	လုံ့ လ်Not 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 1	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 🕯 vailable	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: <u>SW04</u>

Source of Emission:	Overflow from Storm Holding Tanks at main pumping station
Location:	The Marsh Skibbereen
Grid Ref. (12 digit, 6E, 6N):	E112239 N033841
Name of receiving waters:	Ilen river
River Basin District:	South Western River Basin District
Designation of receiving waters:	none quitostited to
Flow rate in receiving waters:	0.16 m³.sec ⁻¹ Dry Weather Flow
	m ³ .sec ⁻¹ 95%ile flow

Emission Details:

(i) Volume emitted not available					
Normal/day	m ³	Maximum/day	m ³		
Maximum rate/hour	m ³	Period of emission (avg)	Min/hrhr/dayday/yr		

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

Discharge Point Code: <u>SW05</u>

Source of Emission:	Storm Overflow from Coronea Pumping Station
Location:	Riverdale Skibbereen
Grid Ref. (12 digit, 6E, 6N):	E112239 N033841
Name of receiving waters:	Ilen river
River Basin District:	South Western River Basin District
Designation of receiving waters:	none citat partecular
Flow rate in receiving waters:	m ³ .sec ⁻¹ Dry Weather Flow
	m ³ .sec ⁻¹ 95%ile flow

Emission Details:

(i) Volume emitte	ed not availabl	e	
Normal/day	m ³	Maximum/day	m ³
Maximum rate/hour	m ³	Period of emission (avg)	Min/hrhr/dayday/yr

Attachment D.2

Table D2

PT_CD	PT_TYPE	LA_NAME	RWB_TYPE	RWB_NAME	DESIGNATION	EASTING	NORTHING	VERIFIED
SW1	Primary Discharge	Cork County Council	River	River Ilen	None	110589	033838	N
SW2	Interim Primary Discharge	Cork County Council	River	River Ilen	None	112218	033886	N
SW3	Secondary Discharge	Cork County Council	River	River Ilen	None	112228	033824	N
SW4	Stormwater Overflow	Cork County Council	River	River Ilen	None	112239	033841	N
	Secondary Discharge /							
SW5	Stormwater Overflow	Cork County Council	River	River Ilen	None	111569		
SW6	Secondary Discharge	Cork County Council	River	River Ilen	None	111638	034323	
SW7	Secondary Discharge	Cork County Council	River	River Ilen	None	111974	034385	N
SW8	Secondary Discharge	Cork County Council	River	River Ilen	None	112436	034612	N
SW9	Secondary Discharge	Cork County Council	River	River Ilen	None &	111628	034024	N
					and the little			
				14.	al			
				Orot	0			
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			ي د د د د د د د د د د د د د د د د د د د					
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			College to the control					
			8					

Attachment E.1

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TABLE E.1(i): WASTE WATER FREQUENY AND QUANTITY OF DISCHARGE – Primary and Secondary Discharge Points

Identification Code for Discharge point	Frequency of discharge (days/annum)	Quantity of Waste Water Discharged (m³/annum)
Primary Discharge Points		
SW1 (Primary)	365 days/annum	1,182,600 m³/annum max.
		(Future 2,365,200 m3/annum max.)
SW2 (Interim Primary)	365 days/annum	1,182,600 m³/annum max.
Secondary Discharge Points		
SW3	Unknown (Emergency Overflow)	Unknown
SW5	Unknown (Emergency Overflow)	Unknown
SW6		Unknown
SW7	Unknown (Emergency Overflow)	Unknown
SW8	Unknown (Emergency Overflow)	Unknown
SW9	Unknown (Emergency Overflow)	Unknown
	For Light	
	a dice	
	Consen	

Table E1i.doc ANNEX – Standard Forms

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

Identification Code for Discharge point	Frequency of discharge (days/annum)	Quantity of Waste Water Discharged (m³/annum)	Complies with Definition of Storm Water Overflow
SW4	*20 to 30 times per year	Dependant on rainfall event	Yes
SW5	*5 times per year	Dependant on rainfall event	Yes
		.ev.	
		dite	
		Oth Tank	
		the street	
		itan ger rede	
		in the day.	
		For Prings	
	8	o Control of the Cont	
	Course		

The overflows listed above have recently been constructed as part of the ongoing Skibbereen Sewerage Scheme – Collection System contract. The exact quantity and frequency of overflows have yet to be determined as the overflows are not monitored at present. However, as part of the scheme, it is proposed to place monitors on the overflow lines to determine the frequency and volume at each location. It is expected that these monitors will be put in over the coming months.

Attachment E.2

Attachment E.3.5.

Attachment E.3.5.

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Table E3

PT_CD	PT_TYPE	MON_TYPE	EASTING	NORTHING	VERIFIED
lot Applicable**	Not Applicable	Not Applicable	Not Applicable	NORTHING Not Applicable	Not Applicable
100000000000000000000000000000000000000					
			1138.		
			inet		
			and the first differ ties		
			anis, an		
			25 2 101		
			170 itel		
		xion,			
		200 CAN			
		Ted Triel out			
		Folklip			
		- col.			
		asen ^v			
		California			

^{**}The DBO contract for the construction of Skibbereen Wastewater Treatment has not yet reached tender stage, therefore these details are as yet unknown.

Attachment E.4.2.

Attachment E.4.2.

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Attachment E4 Water abstraction Results Ilen River; Skibbereen at plant Ballyhilty Bridge Ballyhilty Bridge

Total Coliform	E. coli	Faecal Strept	рН	Conductivity (BOD	Dissolved Oxy	Phosphoro	Nitrite	Ammonium	Nitrate	Suspended S	Colour	Manganese	Sulphate	Chloride	Dissolved	Dissolved Ox	Temperature	Odour	Copper	Zinc
					O2	O2	P2O5	NO2	NH4	NO3		Hz	Mn	SO4	CI	Fe				Cu	
25000	5000	2000	9	1000	5	15	0.7		1.5			-	50	200	250	200	150			2	
				1								-									
			5.5	1		5						-					50				
MPN/100ml	MPN/100ml	cfu/100ml	pH units	μS/cm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	Hazen	μg/l	mg/l	mg/l	μg/l	% O2	Degrees C	Descriptiv	mg/l	μg/l
1274	1203	66	7.4	165	< 1	8.1			0.035		< 1	50		10.5	25.2		74	11	No		
4880	600	38	7.7	154	< 1	12	0.008		< 0.026	6.09	< 1		< 20		24.2		112	10.6		< 0.005	< 20
<i>54750</i>	<i>7540</i>	> 1200	7.1	126	2.2	7.2	0.085	0.037	0.1	4.71	5.6		<i>72</i>			<i>228</i>	73	15.7		0.002	< 20
	25000 MPN/100ml 1274 4880	25000 5000 MPN/100ml MPN/100ml 1274 1203 4880 600	25000 5000 2000 MPN/100ml MPN/100ml cfu/100ml 1274 1203 66 4880 600 38	25000 5000 2000 9 5.5 MPN/100ml MPN/100ml cfu/100ml pH units 1274 1203 66 7.4 4880 600 38 7.7	25000 5000 2000 9 1000 5.5 MPN/100ml MPN/100ml cfu/100ml pH units μS/cm 1274 1203 66 7.4 165 4880 600 38 7.7 154	25000 5000 2000 9 1000 5 5.5 MPN/100ml MPN/100ml cfu/100ml pH units μS/cm mg/l 1274 1203 66 7.4 165 < 1	25000 5000 2000 9 1000 5 15 5.5 5 MPN/100ml MPN/100ml cfu/100ml pH units μS/cm mg/l mg/l 1274 1203 66 7.4 165 < 1	25000 5000 2000 9 1000 5 15 0.7	25000 5000 2000 9 1000 5 15 0.7	25000 5000 2000 9 1000 5 15 0.7 1.5	25000 5000 2000 9 1000 5 15 0.7 1.5	25000 5000 2000 9 1000 5 15 0.7 1.5	25000 5000 2000 9 1000 5 15 0.7 1.5	Column	25000 5000 2000 9 1000 5 15 0.7 1.5 50 200 50 200	Classical Color	Column Column	Column Column	25000 5000 2000 9 1000 5 15 0.7 1.5 50 200 250 200 150	25000 5000 2000 9 1000 5 15 0.7 1.5 50 200 250 200 150	Cu Cu Cu Cu Cu Cu Cu Cu



Attachment F.1, se. Attachment F.1, se. Consent of converted to the conv

The following tables - Table F.1(i)(a), Table F.1(i)(b), Table F.1(ii)(a), Table F.1(ii)(b) - are not applicable due to the fact that the Wastewater Treatment Plant in Skibbereen has not been constructed yet.

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

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

Discharge Point Code:	
MONITORING POINT CODE:	

Parameter	Liper excite et.		ults I ^{Note 1})		Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date	Date At and			
pH	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Temperature	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Electrical Conductivity (@25°C)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Suspended Solids	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Ammonia (as N)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Biochemical Oxygen Demand	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Chemical Oxygen Demand	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Dissolved Oxygen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Hardness (as CaCo ₃)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Total Nitrogen (as N)	Not Applicable	Not Applicable C	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Nitrite (as N)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Nitrate (as N)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Total Phosphorus (as P)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Orthophosphate (as P) - unfiltered	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Sulphate (SO ₄)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Phenols (sum) Note 2 (ug/l)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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

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

Discharge Point Code:	
MONITORING POINT CODE:	

Parameter		Resu (µg/		Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique	
	Date	Date	Date	Date M			
Atrazine	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Dichloromethane	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Simazine	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Toluene	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Tributyltin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Xylenes	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Arsenic	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Chromium	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Copper	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Cyanide	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Fluoride	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Lead	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Nickel		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Zinc	Not Applicable		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Boron	Not Applicable	Not Applicable	- ''		Not Applicable	Not Applicable	Not Applicable
Cadmium	Not Applicable	Not Applicable	Not Applicable	Not Applicable			Not Applicable
Mercury	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Selenium	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Barium	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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

Discharge Point Code:	
MONITORING POINT CODE:	

Parameter			ults I ^{Note 1})		Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique	
	Date	Date	Date	Date	21 US			
рН	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Temperature	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Electrical Conductivity (@25°C)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Suspended Solids	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Ammonia (as N)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Biochemical Oxygen Demand	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Chemical Oxygen Demand	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Dissolved Oxygen	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Hardness (as CaCo ₃)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Total Nitrogen (as N)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Nitrite (as N)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Nitrate (as N)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Total Phosphorus (as P)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Orthophosphate (as P) - unfiltered	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Sulphate (SO ₄)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Phenols (sum) Note 2 (ug/l)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	

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

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

Discharge Point Code:	
MONITORING POINT CODE:	

Parameter		Resi (µg			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique	
	Date	Date	Date	Date	A US		LENGTHER Z	
Atrazine	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Dichloromethane	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Mot Applicable	Not Applicable	Not Applicable	
Simazine	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Toluene	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Tributyltin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Xylenes	Not Applicable	Not Applicable	The state of the s	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Arsenic	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Chromium	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Copper	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Cyanide	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Fluoride	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Lead	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Nickel	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Zinc		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Boron	Not Applicable		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Cadmium	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Mercury	Not Applicable	Not Applicable		Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Selenium	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
Barium	Not Applicable	Not Applicable	Not Applicable	NOT Applicable	Not Applicable	110c Applicable		

Attachment F.2, se.

Attachment F.2, se.

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SECTION G1: Compliance with Council Directives

The most recent national Water Services Investment Programme lists the Skibbereen Sewerage Scheme for inclusion in the 2007 - 2009 WSIP. The Cork County page of the WSIP shows the estimated cost of the project as €20,000,000.

In November 2007, construction of the Skibbereen Sewerage Scheme, Collection System commenced. Prior to the commencement of the collection system construction, the existing sewerage network discharged directly to the River IIen and Caol Stream at numerous locations. As part of the collection system contract, these discharges are to be collected in the new system, which will ultimately convey them to the proposed wastewater treatment plant. Therefore, the ongoing construction of the sewerage scheme and the proposed construction of the treatment plant represent the most significant programme of improvements for reducing emissions to the aquatic environment.

The collection system contract consists of the following: -

The construction of the following approximate lengths of new sewers and associated manholes: -

		of the
-	150 mm diameter pcc pipe	10,39
-	225 mm diameter pcc pipe 300 mm diameter pcc pipe 375 mm diameter pcc pipe 450 mm diameter pcc pipe 525 mm diameter pcc pipe 600 mm diameter pcc pipe 750 mm diameter pcc pipe	37498 m
-	300 mm diameter pcc pipe	2,371 m
-	375 mm diameter pcc pipe &	1,736 m
-	450 mm diameter pcc piper of	509 m
-	525 mm diameter pcc pipe	104 m
-	600 mm diameter pcopipe	321 m
-	750 mm diameter pccopipe	529 m
-	900 mm diameter pcc pipe	369 m
-	1,200 mm diameter pcc pipe	277 m
-	100 mm diameter DI pipe	306 m
-	200 mm diameter DI pipe	30 m
-	250 mm diameter DI pipe	66 m
-	300 mm diameter DI pipe	1,248 m
-	350 mm diameter DI pipe	284 m
-	1000 mm diameter DI pipe	58 m
_	Manholes	332 no.

- The construction of a major foul and storm pumping station and storm water holding tanks in the Marsh.
- The construction of submersible foul pumping station and storm water holding tank at Coronea.
- The construction of submersible foul pumping stations on Mill Road, Marsh Road and Glencurragh Road.
- The installation of service connections from properties to connect to the new sewage system.

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From the Main Pumping Station, the sewage will be pumped forward to the proposed treatment plant, which is to be completed under a separate Design-Build-Operate contract. Interim measures are currently being used to deal with the discharges from the system until such time as the treatment plant is constructed.

It is anticipated that the Main Pumping Station interim arrangement will be operational by August 2008, and may continue to operate as such for up to two years, pending completion of the treatment plant.

The Time for Completion for the Collection System contract is 72 weeks from the commencement date, and the works are currently on schedule. The contract is due for completion in early 2009.

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Cork County

Water Services Investment Programme 2007 - 2009

Schemes at Construction	W/S	Est. Cost	Schemes to start 2009 contd.	W/S	Est. Cost
Cork North			Cork South		
Mitchelstown Sewerage Scheme			Ballincollig Sewerage Scheme (Upgrade) (G)	S	22,248,000
(Nutrient Removal)	S	221,000	Cork Lower Harbour Sewerage Scheme (excl. Crosshaven		73,542,000
			Shannagarry/ Garryvoe/ Ballycotton Sewerage Scheme	S	3,780,000
Cork South	0	0.040.000	Youghal Sewerage Scheme	S	14,420,000
Ballyvourney/ Ballymakeery Sewerage Scheme Cobh/ Midleton/ Carrigtwohill Water Supply Scheme	S W	3,049,000 10,135,000	roughta coworage continu	Ü	14,420,000
Cork Lower Harbour Sewerage Scheme	VV	10,133,000	Cork West		
(Crosshaven SS) (G)	S	4,850,000	Ballydehob Sewerage Scheme	S	683,000
Cork Water Strategy Study (G)	W	941,000	Bantry Water Supply Scheme	W	14,935,000
Kinsale Sewerage Scheme	S	20,000,000	Clonakilty Sewerage Scheme (Plant Capacity Increase)	S	3,677,000
Midleton Sewerage Scheme (Infiltration Reduction) (G	a) S	2,078,000		S	
		41,274,000	Courtmacsherry/Timoleague Sewerage Scheme	W	2,472,000
Schemes to start 2007			Dunmanway Regional Water Supply Scheme Stage 1	VV	12,669,000
Couls Nouth			Can rised Land Initiative		164,629,000
Cork North			Serviced Land Initiative		
North Cork Grouped DBO Wastewater Treatment Plant (Buttevant, Doneraile & Kilbrin)	S	5,150,000	Controller (2)*		
riant (Battovarit, Boriorano a rinomi)	Ü	3,130,000	Cork North	107	100,000
Cork West			Ballyclough Water Supply Scheme	W	139,000
Skibbereen Sewerage Scheme	S	20,000,000	Ballyhooley Improvement Scheme	W/S	139,000
		25,150,000	Broghill Raingoggin Sewerage Scheme	S	406,000
Schemes to start 2008		_	Rivering Water Supply Scheme	W	115,000
		ion	Churchtown Sewerage Scheme (incl. Water)	W/S	543,000
Cork North	L IV VA7	8,652,000 8,408,000	Clondulane Sewage Treatment Plant	S	417,000
Mallow/ Ballyviniter Regional Water Supply Scheme (· 0	8,582,000 5,408,000	Freemount Sewerage Scheme	S	150,000
Mallow Sewerage Scheme (H)	3	Ç07,4 00,000	The Hoad ocvicinge oblicitie (inci. vvalor)	W/S	2,080,000
Cork South		948,000 1,296,000	Rathcormac Sewerage Scheme (incl. Water)	W/S	555,000
Ballincollig Sewerage Scheme (Nutrient Removal) (G	S ses	948,000	Spa Glen Sewerage Scheme	S	736,000
Ballingeary Sewerage Scheme	Centr	1,296,000	Uplands Fermoy Sewerage Scheme (incl. Water)	W/S	1,174,000
Bandon Sewerage Scheme Stage 2	S	14,729,000	Watergrasshill Water Supply Scheme (incl. Sewerage) (G)	W/S	4,151,000
City Environs (CASP) Strategic Study (G)	S	153,000			
Cloghroe Sewerage Scheme (Upgrade)	S	683,000	Cork South		
Coachford Water Supply Scheme	W	1,318,000	Ballincollig Sewerage Scheme (Barry's Rd Foul and		
Garrettstown Sewerage Scheme Inniscarra Water Treatment Plant Extension Phase 1	S W	2,153,000	Storm Drainage) (G)	S	1,164,000
Little Island Sewerage Scheme (G)	S	2,678,000 2,200,000	Belgooley, Water Supply Scheme (incl. Sewerage)	W/S	2,913,000
Ettile Island Gewerage Generic (G)	O	2,200,000	Blarney Water Supply Scheme (Ext. to Station Rd) (G)	W	416,000
			Carrigtwohill Sewerage Scheme (Treatment and		
Cork West			Storm Drain) (G)	S	7,632,000
Bantry Sewerage Scheme	S	7,148,000	Castlematyr Wastewater Treatment Plant Extension	S	1,200,000
Dunmanway Sewerage Scheme	S	2,153,000	Crookstown Sewerage Scheme (incl. Water)	W/S	1,200,000
Leap/ Baltimore Water Supply Scheme	W	6,365,000	Dripsey Water Supply Scheme (incl. Sewerage)	W/S	1,112,000
Schull Water Supply Scheme	W	5,253,000	Glounthane Sewerage Scheme (G)	S	1,576,000
Cahamas to start 2000		61,137,000	Innishannon Sewerage Scheme	S	277,000
Schemes to start 2009			Innishannon Wastewater Treatment Plant	S	694,000
Cork North			Kerrypike Sewerage Scheme	S	832,000
Banteer/Dromahane Regional Water Supply Scheme	W	1,576,000	Kerrypike Water Supply Scheme	W	416,000
Conna Regional Water Supply Scheme Extension	W	2,627,000	Killeagh Wastewater Treatment Plant Extension	S	1,200,000
Cork NE Water Supply Scheme	W	4,326,000	Killeagh Water Supply Scheme (includes Sewerage)	W/S	485,000
Cork NW Regional Water Supply Scheme	W	6,046,000	Killeens Sewerage Scheme	S	420,000
Millstreet Wastewater Treatment Plant (Upgrade)	S	1,628,000	Kilnagleary Sewerage Scheme	S	694,000
			Midleton Wastewater Treatment Plant Extension	S	4,050,000

Attachment G.2, co. Attachment G.2, co. Consent of convention of the consent of the consen

Attachment G.3.

SECTION G3: Impact Mitigation

The most recent national Water Services Investment Programme lists the Skibbereen Sewerage Scheme for inclusion in the 2007 - 2009 WSIP. The Cork County page of the WSIP shows the estimated cost of the project as €20,000,000.

In November 2007, construction of the Skibbereen Sewerage Scheme, Collection System commenced. Prior to the commencement of the collection system construction, the existing sewerage network discharged directly to the River IIen and Caol Stream at numerous locations. As part of the collection system contract, these discharges are to be collected in the new system, which will ultimately convey them to the proposed wastewater treatment plant. Therefore, the ongoing construction of the sewerage scheme and the proposed construction of the treatment plant represent the most significant programme of improvements for reducing emissions to the aquatic environment.

The collection system contract consists of the following: -

The construction of the following approximate lengths of new sewers and associated manholes: -

		, ~
_	150 mm diameter pcc pipe	10 , %
-	225 mm diameter pcc pipe	√3,498 m
-	225 mm diameter pcc pipe 300 mm diameter pcc pipe 375 mm diameter pcc pipe 450 mm diameter pcc piper 525 mm diameter pcc piper 600 mm diameter pcc pipe	5°2,371 m
-	375 mm diameter pcc pipe	1,736 m
-	450 mm diameter pcc piper of	509 m
-	525 mm diameter pcc pipe	104 m
-	600 mm diameter pco pipe	321 m
-	750 mm diameter pccopipe	529 m
-	900 mm diameter pcc pipe	369 m
-	1,200 mm diameter pcc pipe	277 m
-	100 mm diameter DI pipe	306 m
-	200 mm diameter DI pipe	30 m
-	250 mm diameter DI pipe	66 m
-	300 mm diameter DI pipe	1,248 m
-	350 mm diameter DI pipe	284 m
-	1000 mm diameter DI pipe	58 m
-	Manholes	332 no.

- The construction of a major foul and storm pumping station and storm water holding tanks in the Marsh.
- The construction of submersible foul pumping station and storm water holding tank at Coronea.
- The construction of submersible foul pumping stations on Mill Road, Marsh Road and Glencurragh Road.
- The installation of service connections from properties to connect to the new sewage system.

MCW0538 G3-1 Rev. A01 ...

From the Main Pumping Station, the sewage will be pumped forward to the proposed treatment plant, which is to be completed under a separate Design-Build-Operate contract. Interim measures are currently being used to deal with the discharges from the system until such time as the treatment plant is constructed.

It is anticipated that the Main Pumping Station interim arrangement will be operational by August 2008, and may continue to operate as such for up to two years, pending completion of the treatment plant.

The Time for Completion for the Collection System contract is 72 weeks from the commencement date, and the works are currently on schedule. The contract is due for completion in early 2009.

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Cork County

Water Services Investment Programme 2007 - 2009

Schemes at Construction	W/S	Est. Cost	Schemes to start 2009 contd.	W/S	Est. Cost
Cork North			Cork South		
Mitchelstown Sewerage Scheme			Ballincollig Sewerage Scheme (Upgrade) (G)	S	22,248,000
(Nutrient Removal)	S	221,000	Cork Lower Harbour Sewerage Scheme (excl. Crosshaven		73,542,000
			Shannagarry/ Garryvoe/ Ballycotton Sewerage Scheme	S	3,780,000
Cork South	0	0.040.000	Youghal Sewerage Scheme	S	14,420,000
Ballyvourney/ Ballymakeery Sewerage Scheme Cobh/ Midleton/ Carrigtwohill Water Supply Scheme	S W	3,049,000 10,135,000	roughta coworage continu	Ü	14,420,000
Cork Lower Harbour Sewerage Scheme	VV	10,133,000	Cork West		
(Crosshaven SS) (G)	S	4,850,000	Ballydehob Sewerage Scheme	S	683,000
Cork Water Strategy Study (G)	W	941,000	Bantry Water Supply Scheme	W	14,935,000
Kinsale Sewerage Scheme	S	20,000,000	Clonakilty Sewerage Scheme (Plant Capacity Increase)	S	3,677,000
Midleton Sewerage Scheme (Infiltration Reduction) (G	a) S	2,078,000		S	
		41,274,000	Courtmacsherry/Timoleague Sewerage Scheme	W	2,472,000
Schemes to start 2007			Dunmanway Regional Water Supply Scheme Stage 1	VV	12,669,000
Couls Nouth			Can rised Land Initiative		164,629,000
Cork North			Serviced Land Initiative		
North Cork Grouped DBO Wastewater Treatment Plant (Buttevant, Doneraile & Kilbrin)	S	5,150,000	Contr. North 61°		
riant (Battovarit, Boriorano a rinomi)	Ü	3,130,000	Cork North	107	100,000
Cork West			Ballyclough Water Supply Scheme	W	139,000
Skibbereen Sewerage Scheme	S	20,000,000	Ballyhooley Improvement Scheme	W/S	139,000
		25,150,000	Broghill Raingoggin Sewerage Scheme	S	406,000
Schemes to start 2008		_	Rivering Water Supply Scheme	W	115,000
		ion	Churchtown Sewerage Scheme (incl. Water)	W/S	543,000
Cork North	L IV VA7	8,652,000 8,408,000	Clondulane Sewage Treatment Plant	S	417,000
Mallow/ Ballyviniter Regional Water Supply Scheme (· 0	8,582,000 5,408,000	Freemount Sewerage Scheme	S	150,000
Mallow Sewerage Scheme (H)	3	Ç07,4 00,000	The Hoad ocvicinge oblicitie (inci. vvalor)	W/S	2,080,000
Cork South		948,000 1,296,000	Rathcormac Sewerage Scheme (incl. Water)	W/S	555,000
Ballincollig Sewerage Scheme (Nutrient Removal) (G	S ses	948,000	Spa Glen Sewerage Scheme	S	736,000
Ballingeary Sewerage Scheme	Centr	1,296,000	Uplands Fermoy Sewerage Scheme (incl. Water)	W/S	1,174,000
Bandon Sewerage Scheme Stage 2	S	14,729,000	Watergrasshill Water Supply Scheme (incl. Sewerage) (G)	W/S	4,151,000
City Environs (CASP) Strategic Study (G)	S	153,000			
Cloghroe Sewerage Scheme (Upgrade)	S	683,000	Cork South		
Coachford Water Supply Scheme	W	1,318,000	Ballincollig Sewerage Scheme (Barry's Rd Foul and		
Garrettstown Sewerage Scheme Inniscarra Water Treatment Plant Extension Phase 1	S W	2,153,000	Storm Drainage) (G)	S	1,164,000
Little Island Sewerage Scheme (G)	S	2,678,000 2,200,000	Belgooley, Water Supply Scheme (incl. Sewerage)	W/S	2,913,000
Ettile Island Gewerage Generic (G)	O	2,200,000	Blarney Water Supply Scheme (Ext. to Station Rd) (G)	W	416,000
			Carrigtwohill Sewerage Scheme (Treatment and		
Cork West			Storm Drain) (G)	S	7,632,000
Bantry Sewerage Scheme	S	7,148,000	Castlematyr Wastewater Treatment Plant Extension	S	1,200,000
Dunmanway Sewerage Scheme	S	2,153,000	Crookstown Sewerage Scheme (incl. Water)	W/S	1,200,000
Leap/ Baltimore Water Supply Scheme	W	6,365,000	Dripsey Water Supply Scheme (incl. Sewerage)	W/S	1,112,000
Schull Water Supply Scheme	W	5,253,000	Glounthane Sewerage Scheme (G)	S	1,576,000
Cahamas to start 2000		61,137,000	Innishannon Sewerage Scheme	S	277,000
Schemes to start 2009			Innishannon Wastewater Treatment Plant	S	694,000
Cork North			Kerrypike Sewerage Scheme	S	832,000
Banteer/Dromahane Regional Water Supply Scheme	W	1,576,000	Kerrypike Water Supply Scheme	W	416,000
Conna Regional Water Supply Scheme Extension	W	2,627,000	Killeagh Wastewater Treatment Plant Extension	S	1,200,000
Cork NE Water Supply Scheme	W	4,326,000	Killeagh Water Supply Scheme (includes Sewerage)	W/S	485,000
Cork NW Regional Water Supply Scheme	W	6,046,000	Killeens Sewerage Scheme	S	420,000
Millstreet Wastewater Treatment Plant (Upgrade)	S	1,628,000	Kilnagleary Sewerage Scheme	S	694,000
			Midleton Wastewater Treatment Plant Extension	S	4,050,000

Attachment G.4.2.

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SECTION G4: Storm Water Overflow

The most recent national Water Services Investment Programme lists the Skibbereen Sewerage Scheme for inclusion in the 2007 - 2009 WSIP. The Cork County page of the WSIP shows the estimated cost of the project as €20,000,000.

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The collection system contract consists of the following: -

The construction of the following approximate lengths of new sewers and associated manholes: -

		A. W.
-	150 mm diameter pcc pipe	10 , 🎢
-	225 mm diameter pcc pipe	100m 11.7498 m 10.2,371 m 1,736 m 509 m
-	300 mm diameter pcc pipe	2,371 m
-	375 mm diameter pcc pipe 🔊 🥳	1,736 m
-	450 mm diameter pcc pipe disconnection	509 m
-	375 mm diameter pcc pipe 450 mm diameter pcc pipe 450 mm diameter pcc pipe 525 mm diameter pcc pipes	104 m
-	600 mm diameter pco pipe	321 m
-	750 mm diameter pccopipe	529 m
-	900 mm diameter pcc pipe	369 m
-	1,200 mm diameter pcc pipe	277 m
-	100 mm diameter DI pipe	306 m
-	200 mm diameter DI pipe	30 m
-	250 mm diameter DI pipe	66 m
-	300 mm diameter DI pipe	1,248 m
-	350 mm diameter DI pipe	284 m
-	1000 mm diameter DI pipe	58 m
-	Manholes	332 no.

- The construction of a major foul and storm pumping station and storm water holding tanks in the Marsh.
- The construction of submersible foul pumping station and storm water holding tank at Coronea.
- The construction of submersible foul pumping stations on Mill Road, Marsh Road and Glencurragh Road.
- The installation of service connections from properties to connect to the new sewage system.

MCW0538 G4-1 Rev. A01 ...

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It is anticipated that the Main Pumping Station interim arrangement will be operational by August 2008, and may continue to operate as such for up to two years, pending completion of the treatment plant.

The Time for Completion for the Collection System contract is 72 weeks from the commencement date, and the works are currently on schedule. The contract is due for completion in early 2009.

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Cork County

Water Services Investment Programme 2007 - 2009

Schemes at Construction	W/S	Est. Cost	Schemes to start 2009 contd.	W/S	Est. Cost
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Mitchelstown Sewerage Scheme			Ballincollig Sewerage Scheme (Upgrade) (G)	S	22,248,000
(Nutrient Removal)	S	221,000	Cork Lower Harbour Sewerage Scheme (excl. Crosshaven		73,542,000
			Shannagarry/ Garryvoe/ Ballycotton Sewerage Scheme	S	3,780,000
Cork South	0	0.040.000	Youghal Sewerage Scheme	S	14,420,000
Ballyvourney/ Ballymakeery Sewerage Scheme Cobh/ Midleton/ Carrigtwohill Water Supply Scheme	S W	3,049,000 10,135,000	roughta coworage continu	Ü	14,420,000
Cork Lower Harbour Sewerage Scheme	VV	10,133,000	Cork West		
(Crosshaven SS) (G)	S	4,850,000	Ballydehob Sewerage Scheme	S	683,000
Cork Water Strategy Study (G)	W	941,000	Bantry Water Supply Scheme	W	14,935,000
Kinsale Sewerage Scheme	S	20,000,000	Clonakilty Sewerage Scheme (Plant Capacity Increase)	S	3,677,000
Midleton Sewerage Scheme (Infiltration Reduction) (G	a) S	2,078,000		S	
		41,274,000	Courtmacsherry/Timoleague Sewerage Scheme	W	2,472,000
Schemes to start 2007			Dunmanway Regional Water Supply Scheme Stage 1	VV	12,669,000
Couls Nouth			Can rised Land Initiative		164,629,000
Cork North			Serviced Land Initiative		
North Cork Grouped DBO Wastewater Treatment Plant (Buttevant, Doneraile & Kilbrin)	S	5,150,000	Contr. North 61°		
riant (Battovarit, Boriorano a rinomi)	Ü	3,130,000	Cork North	107	100,000
Cork West			Ballyclough Water Supply Scheme	W	139,000
Skibbereen Sewerage Scheme	S	20,000,000	Ballyhooley Improvement Scheme	W/S	139,000
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Mallow/ Ballyviniter Regional Water Supply Scheme (· 0	8,582,000 5,408,000	Freemount Sewerage Scheme	S	150,000
Mallow Sewerage Scheme (H)	3	Ç07,4 00,000	The Hoad ocvicinge oblicitie (inci. vvalor)	W/S	2,080,000
Cork South		948,000 1,296,000	Rathcormac Sewerage Scheme (incl. Water)	W/S	555,000
Ballincollig Sewerage Scheme (Nutrient Removal) (G	S ses	948,000	Spa Glen Sewerage Scheme	S	736,000
Ballingeary Sewerage Scheme	Centr	1,296,000	Uplands Fermoy Sewerage Scheme (incl. Water)	W/S	1,174,000
Bandon Sewerage Scheme Stage 2	S	14,729,000	Watergrasshill Water Supply Scheme (incl. Sewerage) (G)	W/S	4,151,000
City Environs (CASP) Strategic Study (G)	S	153,000			
Cloghroe Sewerage Scheme (Upgrade)	S	683,000	Cork South		
Coachford Water Supply Scheme	W	1,318,000	Ballincollig Sewerage Scheme (Barry's Rd Foul and		
Garrettstown Sewerage Scheme Inniscarra Water Treatment Plant Extension Phase 1	S W	2,153,000	Storm Drainage) (G)	S	1,164,000
Little Island Sewerage Scheme (G)	S	2,678,000 2,200,000	Belgooley, Water Supply Scheme (incl. Sewerage)	W/S	2,913,000
Ettile Island Gewerage Generic (G)	O	2,200,000	Blarney Water Supply Scheme (Ext. to Station Rd) (G)	W	416,000
			Carrigtwohill Sewerage Scheme (Treatment and		
Cork West			Storm Drain) (G)	S	7,632,000
Bantry Sewerage Scheme	S	7,148,000	Castlematyr Wastewater Treatment Plant Extension	S	1,200,000
Dunmanway Sewerage Scheme	S	2,153,000	Crookstown Sewerage Scheme (incl. Water)	W/S	1,200,000
Leap/ Baltimore Water Supply Scheme	W	6,365,000	Dripsey Water Supply Scheme (incl. Sewerage)	W/S	1,112,000
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Cork NE Water Supply Scheme	W	4,326,000	Killeagh Water Supply Scheme (includes Sewerage)	W/S	485,000
Cork NW Regional Water Supply Scheme	W	6,046,000	Killeens Sewerage Scheme	S	420,000
Millstreet Wastewater Treatment Plant (Upgrade)	S	1,628,000	Kilnagleary Sewerage Scheme	S	694,000
			Midleton Wastewater Treatment Plant Extension	S	4,050,000

ANNEX 2: Check List For Regulation 16 Compliance

must, in all cases, accompany a discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007) sets out the information which requirements of Regulation 16 of the 2007 Regulations. all applicants should complete the following.

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

(4)	gulation 16(1) In the case of an application for a waste water discharge licence, to application shall - give the name, address, telefax number (if any) and telephone number of the applicant (and, correspondence relating to the application should be sent and, if the address to which give the name, if the address to which the property of the property of the application should be sent and, if the address to which the property of the property of the application should be sent and, if the address to which the property of th		
	corporate, the address of in the application of the	Number	ent Checked Applicant
(b)	give the name, address, telefax number (if any) and telephone number of the applicant (and, correspondence relating to the application should be sent and, if the operator is a bod give the name of the water services authority in whose functional area the relevant waste water townlands) and the National Crists (including whom	if B.1	~
(c)	give the location or postel	1	
	of the waste water died Grid reference of there appropriate the	B.1	1
(d) s	the location or postal address (including where appropriate, the name of the townland or the waste water discharge point or points to which the application relates, pecify the population equivalent of the agglomeration to the sound of the relevant waste water waste water treatment plant pecify the sound or the sound or the sound or the waste water treatment plant pecify the sound or the agglomeration to the agglomeration to the sound or the sound or the waste water treatment plant pecify the sound or the so	B.2	
(e) sp	pecify the content and extent of the waste water discharge, the level of treatment provided, if ye details of the receiving water body, including its pecify the ages or protected.		
(I) ais	to de la	B.9	1
aro	be affected by the sected areas or both is protected areas	B.2 & C.1	~
hyd	y sensitive areas or protected areas or both in the vicinity of the discharge point or points bundwater protection schemes in place for the receiving water body and all associated nity of the discharge.	F.1 & G.1	V
	discharge. The discharge water body and all associated to the receiving water body and the receiving water body and the receiving water body and the receiving water body are the receiving water body and the receiving water bod	_	

Regu	lation 16(1) continued/	Attachment Number	Checked by Applicant ✓
(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,	Not Applicable Refer to E.2	1
(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,	Not Applicable	√
(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,	C.1	✓
(j)	give particulars of the nearest downstream drinking water abstraction with or points to the discharge point or points,	Not Applicable	✓
(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.	F.1	1
(1)	give detail of compliance with relevant monitoring requirements and treatment standards contained in any applicable Council Directives of Regulations,	A.1 and G.1	✓
(m)	give details of any work necessary to meet relevant effluent discharge standards and a timeframe and schedule for such work.	A.1 and G.1	V
(n)	Any other information as may be stipulated by the Agency.	Not Applicable	✓

(a)	ulation 16(3) Without prejudice to Regulation 16 (1) and (2), an application for a licence shall be accompanied by -	Attachment Number	Checked by the applicant
(a)	a copy of the notice of intention to make an application given pursuant to Regulation 9,	B.8	1
(b)	where appropriate, a copy of the notice given to a relevant water services authority under Regulation 13,	Not Applicable	1
(c)	Such other particulars, drawings, maps, reports and supporting documentation as are necessary to identify and describe, as appropriate -		
	(i) the point or points, including storm water overflows, from which a discharge or discharges take place or are to take place, and	B.3, B.4 and B.5	1
(4)	(ii) the point or points at which monitoring and sampling are undertaken or are to be undertaken,	N/A Refer to E.2	1
(d)	such fee as is appropriate having regard to the provisions of Regulations 38 and 39.		1
An or	riginal application shall be accompanied by 2 copies of it and application.	B. 9	✓
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