



**Kilkenny County Council**  
**County Hall, John Street, Kilkenny**  
**Tel: 056 7794050 Fax: 056 7794069**  
**E-mail: [waterservices@kilkennycoco.ie](mailto:waterservices@kilkennycoco.ie)**  
**Webpage: [www.kilkennycoco.ie](http://www.kilkennycoco.ie)**

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**WS - Water Quality Monitoring - WW - Discharge  
Licence - WW207 - Ballyragget**

# **Waste Water Discharge Licence Attachments**

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## Appendix 1 – Drawings

## Appendix 2 – Monitoring (Soft Copy Only)

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## **Section A Attachments**

### **Non-Technical Summary**

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### **A.1 Introduction**

This application for a Waste Water Discharge Licence is made by Kilkenny County Council and for the agglomeration of **Ballyragget**. The application is made pursuant to the Waste Water Discharge (Authorisation) Regulations, 2007, (S.I. No. 684 of 2007). All drawings referred to in this document can be found in Appendix 1 at the back of the document.

### **A.2 Location**

Ballyragget is located on the North Central area of County Kilkenny, (**245066E, 171034N**). It is located 17km North of Kilkenny City and 115km South West of Dublin City. The N77 Kilkenny to Durrow National Secondary route passes through the town. Drawing “**KK-WWDL-207-A.2.1**” details the geographical location of Ballyragget, highlights some of the main routes and identifies the location of the Waste Water Treatment Plant which serves the agglomeration.

### **A.3 Plant & Agglomeration Operation**

The Waste Water Treatment Plant is located approximately 1Km south west of the town (**244603E, 170141N**) in the townland of Ballyragget. It is 500m off the main N77 road and on the banks of the River Nore.

The plant was upgraded in 2004. The design PE is 1920. The plant operates using Sequence Batch Reactors (SBR's). The layout of the WWTP is:

- Inlet Works
- Flow measurement
- Screenings
- Forward Feed Tank
- Overflow to storm tank
- 2 x SBR Tanks
- Sludge Holding Tank

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The SBR's work in a timed format. The sequences are:

- Fill, Mix and Aerate
- Settlement Phase
- Decant
- Desludge

A full phase of each reaction takes approximately 5 hours. The two SBR's are both working but the phases are operated at different times. From the SBR's the final effluent then flows to the River Nore by gravity. This is the only discharge pipe from the works. The SBR's are desludged on a regular basis to a sludge holding tank. The final sludge is thickened on site and is then transported to Kilkenny Main Drainage for disposal.

The influent from the agglomeration enters the treatment plant via gravity flow. There is only one small pumping station on the scheme, at Glen Vale, this pumps to the mains and then flows to the plant via gravity. On the sewerage network there is one Combined Storm Water Overflow. There is another two SWO's located at the WWTP.

There are two composite samplers permanently in place at the treatment works, one on the inlet and one on the outlet. These samplers are used to take samples for operational and monitoring purposes. Ballyragget is also monitored as part of our County Monitoring Programme (detailed in Section B); this ensures that adequate sampling is done as per the Urban Waste Water Regulations. This monitoring is done by our Water Services and Environmental technical staff.

#### **A.4 Plant & Agglomeration Supervision**

The WWTP & agglomeration has a part-time caretaker. The caretaker visits the site daily seven days a week. Approximately there is an average of 1 man hours per working day are spent by the caretaker at the WWTP and the network. His supervisor ensures the site is manned during the caretakers annual leave/ sick leave etc . . In addition to this the scheme is served by a Waste Water Engineer and the Water Services Technical staff.

### **A.5 Waste Water Treatment Plant Discharge Details**

The area where the WWTP discharges to the River Nore is a non-sensitive area. Therefore the standards for the final effluent are:

**BOD:** 25 mg/l (70-90% reduction)

**COD:** 125 mg/l (90% reduction)

**TSS:** 35 mg/l (90 % reduction)

**TN:** 15 mg/l N (70-80% Reduction)

**TP:** 2 mg/l P (80% Reduction)

### **A.6 Future Upgrade**

There are no immediate plans for an upgrade at Ballyragget WWTP

### **A.7 Reference to 2004 Urban Waste Water Report**

There was no Urban Waste Water report done for the Ballyragget Agglomeration.

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## **Section B Attachments**

### **General**

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**Table: KK-WWDL-207-B.2.1 - Sampling Details**

Sample Point	Description	Sample Type	Kilkenny Co Co Lab Tests								External Lab
			Suspended Solids	COD	BOD <sub>5</sub>	DO	pH	% Dry Solids	Total Nitrogen	Total Phosphate	Dangerous Substances
KK207-001	Influent Sampling Point	Composite	✓	✓	✓		✓		✓	✓	✓
KK207-002	Final Effluent Sampling Point	Composite	✓	✓	✓		✓		✓	✓	✓
KK207-003	Up Stream Sampling Point	Grab	✓	✓	✓	✓	✓		✓	✓	✓
KK207-004	Down Stream Sampling Point	Grab	✓	✓	✓	✓	✓		✓	✓	✓
KK207-005	MLSS No. 1 Sampling Point	Grab	✓			✓					
KK207-006	MLSS No. 1 Sampling Point	Grab	✓			✓					
KK207-007	Sludge Sampling Point	Grab						✓			

For Sampling Locations please refer to Drawings KK-WWDL-207-B.2.1 and KK-WWDL-207-B.3.1

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**Table: KK-WWDL-207-B.2.2 - 2009 Kilkenny Co Co Water Services Waste Water Sampling Programme**

WA ID	Plant ID	Plant	Design PE	UWWT Minimum No. of Samples Required	BOD <sub>5</sub>	COD	TSS	Total P*	Total N*	Kilkenny Co Co Min. No. of Samples
33	196	Ballyhale-Knocktoper	400	Not Required	✓	✓	✓	✓	✓	2
<b>33</b>	<b>207</b>	<b>Ballyragget WWTP</b>	<b>1920</b>	<b>6 Samples</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>7</b>
33	201	Bennettsbridge WWTP	500	6 Samples	✓	✓	✓	✓	✓	7
33	210	Callan WWTP	4000	12 Samples Year 1, 4 samples subsequent years	✓	✓	✓	✓	✓	13
33	200	Castlecomer WWTP	2540	12 Samples Year 1, 4 samples subsequent years	✓	✓	✓	✓	✓	13
33	203	Clogh-Mooneenroe WWTP	1740	6 Samples	✓	✓	✓	✓	✓	7
33	195	Coon	75	Not Required	✓	✓	✓	✓	✓	2
33	202	Deerpark	65	Not Required	✓	✓	✓	✓	✓	2
33	756	Dunamaggin	150	Not Required	✓	✓	✓	✓	✓	2
33	757	Dungarvan	65	Not Required	✓	✓	✓	✓	✓	2
33	221	Fiddown	300	Not Required	✓	✓	✓	✓	✓	2
33	213	Freshford	400	Not Required	✓	✓	✓	✓	✓	2
33	214	Glenmore	250	Not Required	✓	✓	✓	✓	✓	2
33	219	Goresbridge	400	Not Required	✓	✓	✓	✓	✓	2
33	194	Gowran WWTP	550	6 Samples	✓	✓	✓	✓	✓	7
33	209	Graigenamanagh WWTP	3000	12 Samples Year 1, 4 samples subsequent years	✓	✓	✓	✓	✓	13
33	198	Inistioge	400	Not Required	✓	✓	✓	✓	✓	2
33	220	Johnstown WWTP	900	6 Samples	✓	✓	✓	✓	✓	7
33	215	Kells	300	Not Required	✓	✓	✓	✓	✓	2
33	758/759	Kilmacow		Not Required	✓	✓	✓	✓	✓	2
33	754	Kilmaganny	245	Not Required	✓	✓	✓	✓	✓	2
33	763	Kilmanagh	50	Not Required	✓	✓	✓	✓	✓	2
33	208	Mooncoin WWTP	2800	12 Samples Year 1, 4 samples subsequent years	✓	✓	✓	✓	✓	13
33	204	Mullinavat	280	Not Required	✓	✓	✓	✓	✓	2
33	197	Paulstown WWTP	1000	6 Samples	✓	✓	✓	✓	✓	7
33	206	Piltown WWTP	1500	6 Samples	✓	✓	✓	✓	✓	7
33	211	Purcellsinch WWTP	107650	24 Samples	✓	✓	✓	✓	✓	25
33	217	Stonyford WWTP	500	6 Samples	✓	✓	✓	✓	✓	7
33	212	Thomastown WWTP	3000	12 Samples Year 1, 4 samples subsequent years	✓	✓	✓	✓	✓	13
33	762	Tullaroan	20	Not Required	✓	✓	✓	✓	✓	2
33	205	Urlingford WWTP	1500	6 Samples	✓	✓	✓	✓	✓	7

\* Total P & Total N only required for Discharges to Sensitive Rivers  
 Co Kilkenny Only Sensitive Areas - River Nore Downstream of KMD Outfall to Inistioge Bridge

**Table KK-WWDL-207-B.5.01 - Pumping Stations**

Drawing Number	Description	ID Code	Easting	Northing	Screens	Storm Water Overflow	Emergency Overflow	Discharge To	Monitoring	Operated By
KK-WWDL-207-B.5.01	PS at Glen Vale	KK207-PS01	245109	170798	✘	✘	✘	None	Unknown	Private

**Table KK-WWDL-207-B.5.02 - Storm Water Overflow Outfalls**

Drawing Number	Description	ID Code	Easting	Northing	Screens	Storm Water Overflow	Discharge To	Monitoring	Type of Discharge Pipe	Operated By
KK-WWDL-207-B.5.02	Storm Water Overflow at Storm Tank in WWTP	KK207-SWOO-01	244550	170147	✓	✓	River Nore	Daily	Open Pipe	Kilkenny Co Co
KK-WWDL-207-B.5.03	Storm Water Overflow at Inlet Works in WWTP	KK207-SWOO-02	244550	170147	✘	✓	River Nore	Daily	Open Pipe	Kilkenny Co Co
KK-WWDL-207-B.5.04	Storm Water Overflow behind National School	KK207-SWOO-03	244698	170707	✘	✓	River Nore	Weekly	Open Pipe	Kilkenny Co Co

**Note:** No Monitoring or sample points are currently in use with respect to these Storm Overflow Points.

**Table KK-WWDL-207-00-B.5.03 - Storm Water Overflow Chambers**

Drawing Number	Description	ID Code	Easting	Northing	Discharge To	Monitoring	Operated By
KK-WWDL-207-B.5.02	Storm Water Overflow at Storm Tank in WWTP	KK207-SWOC-01	244611	170155	River Nore	Daily	Kilkenny Co Co
KK-WWDL-207-B.5.03	Storm Water Overflow at Inlet Works in WWTP	KK207-SWOC-02	244609	170169	River Nore	Daily	Kilkenny Co Co
KK-WWDL-207-B.5.04	Storm Water Overflow behind National School	KK207-SWOC-03	244783	170760	River Nore	Weekly	Kilkenny Co Co

**Note:** No Monitoring or sample points are currently in use with respect to these Storm Overflow Points.

## **B.6 Previous Planning**

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COMHAIRLE CHONTAE CHILL CHOINNIGH

**BALLYRAGGET  
WASTEWATER  
TREATMENT  
WORKS**

- HISTORY
- PLANNING
- APPROVAL

# BALLYRAGGET WASTEWATER TREATMENT WORKS:

## HISTORY

The present Sewerage System including the Wastewater Treatment Works in Ballyragget was constructed in 1951-52. Before that, there was no sewerage system in Ballyragget.

The Consulting Engineers original Report cannot be accessed or is not extant at this time; however, the Treatment works seems to have been designed for a population equivalent (PE) of 450 or thereabouts. It received sanction from the Department of Local Government in August 1948. There are no documents relating to Planning Approval (similar to the present Part 8 of the Planning Acts) available or extant at this time. Details are appended herewith.

The system provided consisted of:

1. Main Sewerage Network to serve existing development in the Village
2. Inlet Chamber incorporating Manual Screens
3. Imhoff Tank
4. Sludge Drying Beds
5. Toilet and Store

In 2002, under Grant of Planning Permission P00/691, Condition No. 5, a Developer undertook to upgrade the Works to full secondary treatment in accordance with a partnership Agreement with the Council. A copy of the Agreement is appended. The design of the upgraded Works accommodated a PE of 1920, which comprised an allowance for all existing development in the village, a reserved capacity to be allocated by the Council for future development, and a reserved capacity for the Developer. The upgrading work was funded by the Developer, the Council, and under the Serviced Land Initiative Scheme of the Department of the Environment and Local Government.

The upgraded Works comprises:

1. Inlet Works including Automatic Spiral Screen and Storm Overflow
2. Forward Feed Pump Sump
3. Stormwater Storage
4. Twin SBR Reactors
5. Sludge Storage and Removal facilities
6. Metering Sampling Instrumentation and Control Systems
7. Control Building

Details are appended herewith.

KILKENNY COUNTY COUNCIL



COMHAIRLE CHONTAE CHILL CHOINNIGH

**BALLYRAGGET  
WASTEWATER  
TREATMENT  
WORKS**

**1951 Works**

COPY/

Department of Local Government

Custom House,

DUBLIN

24th August, 1949.

L. 3775/49

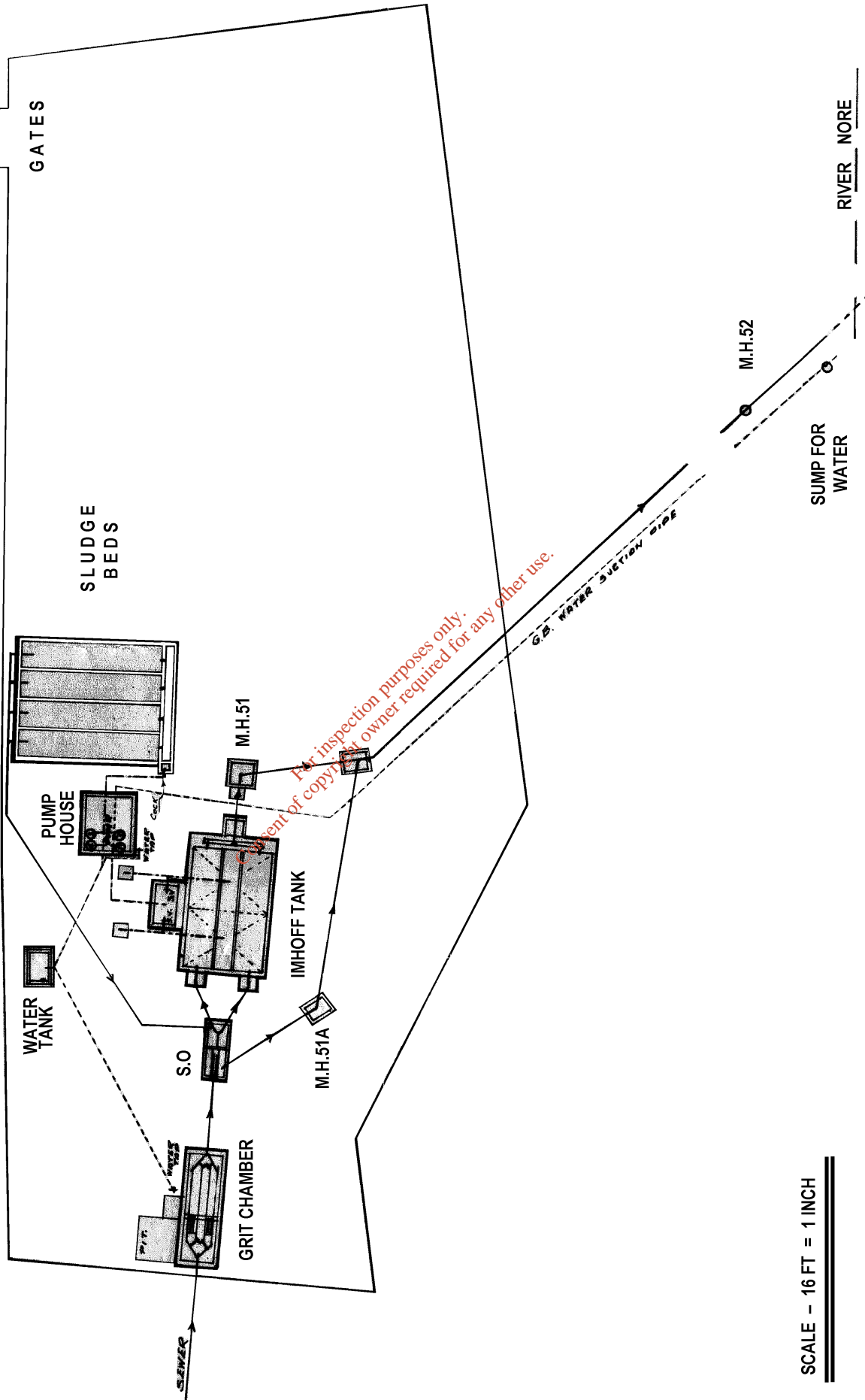
A Chara,

With reference to previous correspondence relative to the Ballyragget Sewerage Scheme, I am directed by the Minister for Local Government to state that no objection will be raised to the plans submitted to this Department. The Consulting Engineer should be instructed to proceed with the preparation of contract documents for the Scheme.

Mise, le meas,

The Secretary,  
Kilkenny Co. Council,  
John's Green,  
KILKENNY.

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SCALE - 16 FT = 1 INCH

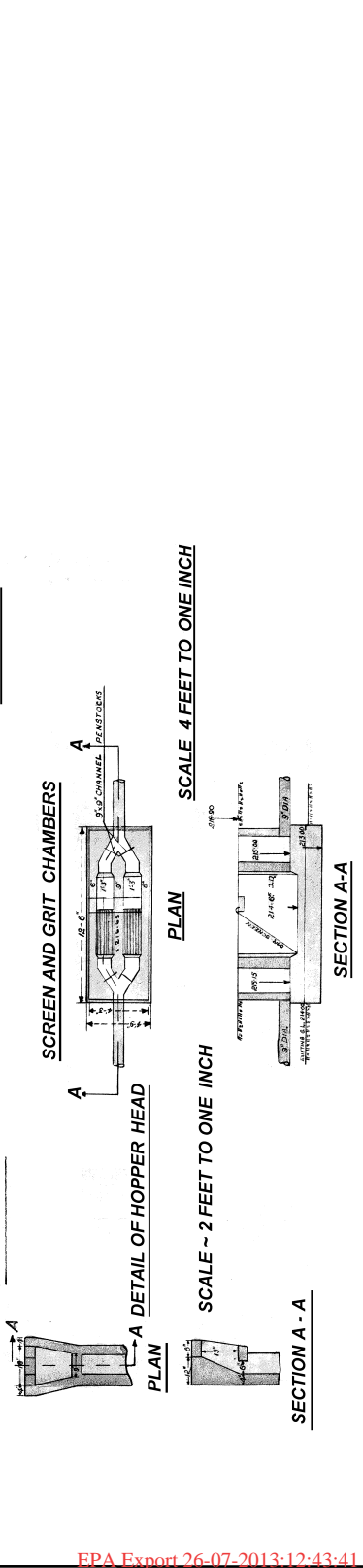
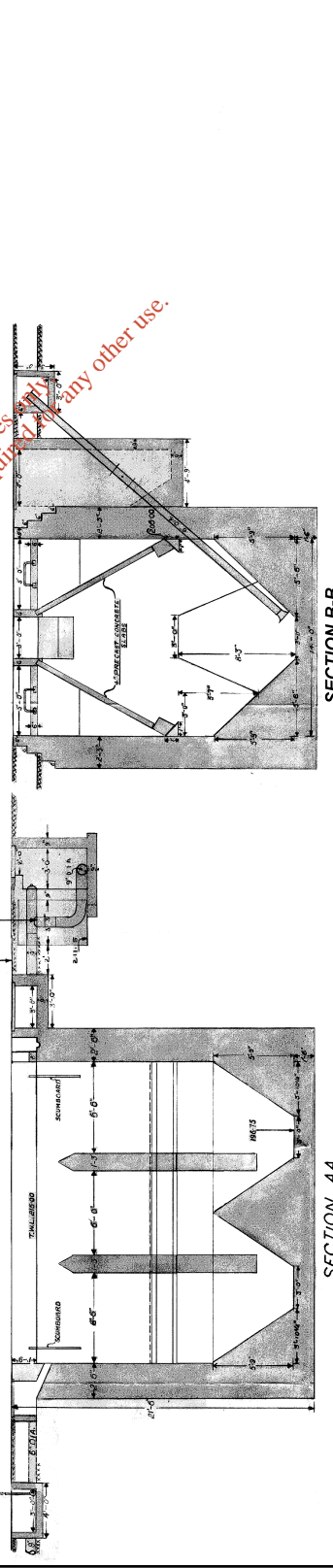
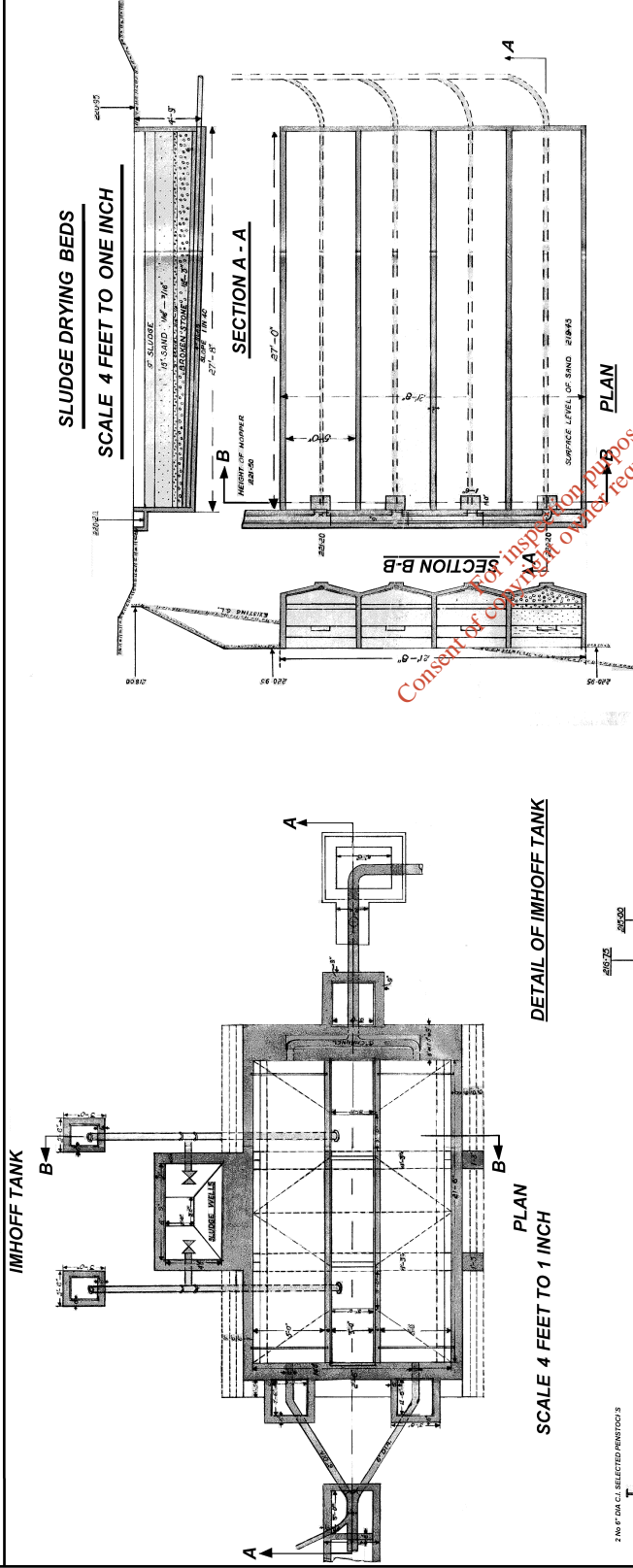
KILKENNY COUNTY COUNCIL  
 J.G. COFFEY, B.E., M.I.C.E.I.,  
 COUNTY SURVEYOR

**BALLYRAGGET SEWERAGE**  
 PLAN OF OUTFALL WORKS & COMPOUND

T. J. O'CONNOR, B.E., B. Sc., M.I.C.E.I.,  
 CONSULTING ENGINEER  
 DAME ST., DUBLIN

*T. J. O'CONNOR*  
 31/11/53

**BALLYRAGGET** **SEWERAGE**



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**BALLYRAGGET  
WASTEWATER  
TREATMENT  
WORKS**

**2002 Upgrading**

Date: 10<sup>th</sup> April 2001  
Kilkenny County Council  
Our County Hall, John Street, Kilkenny  
Tel: 056-52699 Fax: 056-63384  
Mr. B. Mernagh  
A/Senior Executive Engineer  
Planning Section



*Daniel Deehan*

Comhairle Chontae Chill Chainnigh  
Halla an Chontae, Sraid Eoin, Cill Chainnigh  
Fón: 056-52699 Fax: 056-63384

**Local Government (Planning & Development) Acts, 1963 – 1993  
(Permission) Regulations, 1994 (As Amended)**

**Applicant:** Donal O'Reagan & John O'Brien, c/o Larkin Associates, Main Street, Bennettsbridge, Co. Kilkenny.  
**Subject:** Permission to demolish existing shed and construct 99 houses, 4 shop units with 5 apartments in total over the shops on lands at Ballyragget, Co. Kilkenny.

Dear Mr. Mernagh

This application is for permission to demolish existing shed and construct 99 houses, 4 shop units with 5 apartments in total over the shops on lands at Ballyragget, Co. Kilkenny.

I recommend **that Permission be Granted** subject to the attached conditions.

Yours sincerely

\_\_\_\_\_  
P. Murphy  
Executive Planner

Daniel O'Sullivan, B.E.,  
County Engineer  
County Hall  
Kilkenny County Council

I agree with the above report and recommend **that Permission be Granted** subject to the attached conditions.

\_\_\_\_\_  
**B. Mernagh**  
A/Senior Executive Engineer

**I agree with the above recommendation**

\_\_\_\_\_  
**D. O'Sullivan**  
County Engineer

**27 NO. CONDITIONS ATTACHED TO PLANNING REFERENCE P.00/691**

**COND NO.1** The proposed development shall be carried out in accordance with the drawings and specifications submitted to the Planning Authority on the 10<sup>th</sup> May, 2000 and 16<sup>th</sup> June, 2000 as amended by the drawings and specifications submitted to the Planning Authority on the 19<sup>th</sup> January, 2001, as amended by the specifications submitted on the 15<sup>th</sup> March, 2001 as amended by the drawings and specifications submitted on the 5<sup>th</sup> April, 2001, except as otherwise required by the conditions of this permission.

**Reason:** To ensure that the development strictly accords with the permission and to ensure that effective control is maintained.

**COND NO.2** Detailed design, materials, finishes:

- (a) The proposed windows and doors on the front elevations of house types A and apartments shall be of timber construction and paint finished not stained.
- (b) The proposed roofs of house types A and apartments A shall be finished in natural slate (blue/black or black in colour).
- (c) The proposed roofs of house types B, C, D and E shall be finished in slate (blue/black or black in colour).
- (d) Prior to construction of house types A shop units and apartments in block A at the northern boundary revised plans, elevations and sections of same shall be submitted to and agreed with the Planning Authority.
- (e) Prior to construction of house types A, shop units and apartments in block A at the southern boundary revised plans, elevations and sections of same clearly showing a maximum height of two-storeys shall be submitted to and agreed in writing with the Planning Authority.
- (f) Prior to construction of house types B, C, D, and E detailed revised elevational drawings of house designs and external finishes which conform and are traditional forms of vernacular architecture in the existing settlement shall be submitted to and agreed in writing with the Planning Authority.
- (g) Prior to construction full details of the proposed railings along blocks A including materials to be used shall be submitted to and agreed in writing with the Planning Authority.

**COND NO.5 Public Utilities:**

- (a) All service cables associated with the proposed development (such as electrical, telephone, cable television, street lighting cables) and existing power lines traversing and/or bounding the site shall be run underground in ducting of appropriate size and quality, within the site.
- (b) Public lighting, to serve the development, shall be provided. Complete details of the public lighting scheme shall be submitted to and agreed with the Planning Authority within one month of the commencement of development.
- (c) The proposed development shall not be connected to the public sewer until such time as full Secondary Treatment Plant is constructed and fully operational.
- (d) Dwellings, apartments and shop units shall not be occupied until such time as the Local Authority Secondary Treatment Plant is fully constructed and operational.
- (e) Prior to the commencement of the development, the developer shall enter into an agreement with the Planning Authority to either (i) undertake upgrading of Ballyragget Sewage Treatment Plant to a standard approved by the Sanitary Services Section of Kilkenny County Council or (ii) pay a sum of money to the Planning Authority as a contribution towards expenditure that will be incurred by the Planning Authority in respect of the upgrading of the sewage treatment plant which will facilitate the proposed development. The amount of the contribution and the arrangements for payment shall be as agreed between the developer and the Planning Authority.

In the case of the expenditure that is proposed to be incurred, the requirement to pay this contribution is subject to the provisions of Section 26(2)(h) of the Local Government (Planning & Development) Act, 1963, generally and in particular, the specified period for the purposes of paragraph (h) shall be the period of seven years from the date of this order.

- (f) Prior to the commencement of development, the developer shall enter into an agreement with the Planning Authority to either (i) undertake upgrading of Ballyragget Sewage Treatment Plant to a standard approved by the Sanitary Services Section of Kilkenny County Council or (ii) pay a sum of money to the Planning Authority as a contribution towards expenditure that will be incurred by the Planning Authority in respect of the upgrading of the sewage treatment plant which will facilitate the proposed development. The amount of the contribution and the arrangements for payment shall be as agreed between the developer and the Planning Authority.

In the case of the expenditure that is proposed to be incurred, the requirement to pay this contribution is subject to the provisions of Section 26(2)(h) of the Local Government (Planning & Development) Act, 1963, generally and in particular, the specified period for the purposes of paragraph (h) shall be the period of seven years from the date of this order.

- (g) Upon an adequate public water supply becoming available, water supply to the development shall be taken from the public mains.
- (h) All surface water run-off from roofs, driveways and paved areas shall be collected and disposed of within the curtilage of the site. Full details of same shall be submitted to and agreed with the Planning Authority prior to the commencement of development. Surface water run-off shall not be allowed to discharge onto the public road or to adjoining properties.

**Reason:** In the interests of visual amenity, it is considered reasonable that the developer should contribute towards the expenditure that is proposed to be incurred by the Planning Authority in respect of works facilitating the proposed development, in the interests of orderly development, public health and residential amenity and to avoid interference with other properties and to prevent damage to the public road with consequent traffic hazard.

**COND NO.6** Before development commences a detailed phasing programme for the proposed development shall be agreed in writing with the Planning Authority to include, inter alia water and sewerage services, surface water, roads, footpaths, road boundary, setbacks, reconstruction, public lighting (internal and external) houses, open space and provision of site landscaping.

**Reason:** In the interests of orderly development.

### **3. PROCESS DESCRIPTION**

#### **Housing Development Pumping Station**

##### Pumping Station & Stormwater Holding

This pump sump contains 2 No. Submersible pumps (Duty/Standby) capable of forwarding 59.4m<sup>3</sup>/hr to the Treatment Plant. These pumps are controlled using an ultrasonic level controller in the sump.

Flows in excess of the above will overflow to the storm detention tank. This tank shall be positioned in a way so that the stormwater will flow back into the sump once the level in the sump drops.

#### **1800 PE Wastewater Treatment Plant**

##### Inlet Works

The influent is directed to the inlet works, which comprises of a an automatic spiral screen. This screen prevents screenings down to 6mm from continuing downstream and into the pump sump. The screened sewage will flow into the pump sump/buffer tank where the flow is forwarded for treatment.

##### ***SEQUENCING BATCH REACTOR OPTION***

##### Buffer Tank

The purpose of the buffer tank is to balance the incoming flows prior to treatment in the SBR Tank. The tank will comprise of a submersible mixer and 2 No. submersible pumps to forward the effluent to the SBR's

##### SBR Tanks

These tanks have a total volume of 200m<sup>3</sup> each and they contain a Venturi Aerator which provide oxygen during the aeration stage.

During the settling stage of the SBR, the mixed liquor settles and separates with the clarified liquid overflowing to the outlet flow measurement and sampling station prior to outfall discharge.

##### Sludge Holding Tank

Excess sludge is wasted from the system to a new sludge holding tank. There will be two supernatant draw-off pipes in this tank and the sludge can be taken off by means of a sludge draw-off pipe and bauer connection.

#### 4. PLANT TAG REFERENCE LIST

Housing Development Pumps	HP 1 & 2
Level Control	LC1
Inlet Flowmeter	F1
Inlet Screen	SC1
Level Control	LC2
Buffer Tank Mixer	BM1
Level Control	LC3
Forward Feed Pumps	FP1 & 2

##### **SBR Option**

SBR Tanks	SBR 1 & 2
Tank 1 Venturi Aerator	V1
Level Control	LC4
DO Meter	DO1
Decant system	D1
Sludge outlet system	SO1
Tank 2 Venturi Aerator	V2
Level Control	LC5
DO Meter	DO2
Decant system	D2
Sludge outlet system	SO2

##### **Extended Aeration**

Aeration Tank	AT1
Air Blowers	B1 & 2
Dissolved oxygen	DO1
Clarifier	C1
Rotating Scraper	RS1
Sludge pump	PS1
Imhoff Tank Pumps	IP1 & 2
Level Control	LC6
Control Panel	CP1

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## TREATMENT PLANT

### Screening

Tag Reference:	SC1
Manufacturer:	CDE or Cosme
Quantity	1
Type	Spiral Fine Screen
Plant Setup	Channel Flow
Construction	Stainless Steel
Screen Size	6mm
Application	Sewage
Throughput required	90m <sup>3</sup> /hr
Inclination	35 – 40°

### Screen/compactor Motor Details

Motor supply	415/3/50
Full load speed	900 rpm
Full load amps	3.1 A
Motor Efficiency	75%
Insulation Class	Class F
Protection Rating	IP 55
Motor Rating	1.1 kW

### Buffer Tank/Pumping

#### Tank

Material:	Pre-cast concrete
Capacity:	45m <sup>3</sup>
Length:	6.55m
Width:	3.2m
Depth:	3.0m

#### Forward Feed Pumps

Tag Reference:	FP1 & FP2
Manufacturer:	ABS Pumps or ITT Flygt
Location:	Inlet sump
Duty:	90 m <sup>3</sup> /hr
Static Head:	4.0m
Total Head:	6.0m
No. of Pumps:	2
Installation:	Wet Well
Motor Power:	5.0 kW
Speed:	1450 rpm (max.)
Impeller:	Vortex

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***Buffer Tank Mixer***

Tag Reference:	BM1
Tank Capacity:	45 m <sup>3</sup>
Medium:	Screened sewage
No. of tanks:	1
Mixer manufacturer:	ABS or ITT Flygt
Motor power:	1.5 kW
Speed at 50Hz:	1400 rpm
Propeller Diameter:	300mm
Features:	Stator Temp. Monitoring Mechanical Seal Monitoring

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## **Option 1 - SBR's**

### **SBR Tanks**

Qty:	2
Manufacture:	I.I.T
Material:	Glass Lined Steel
Capacity:	200 m <sup>3</sup>
Height:	4.2m
Diameter:	8.5m
Base:	Flat base

### **Venturi Aerators**

Tag reference:	V1 & V2
Medium:	Activated sludge
No. of tanks:	2
Mixer manufacturer:	ITT Flygt
O <sub>2</sub> Requirement:	16 KgO <sub>2</sub> /hr (per aerator)
Liquid Depth:	3.8m (approx.)
Motor power:	13.5 kW
Speed at 50Hz:	1450 rpm
Features:	Stator Temp. Monitoring Mechanical Seal Monitoring

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## Sludge Holding Tank

Material:	Pre-cast concrete
Capacity:	31.8m <sup>3</sup>
Length:	6.55m
Width:	3.2m
Depth:	2.3m

## Imhoff Tank Pumps

Tag Reference:	IP1 & IP2
Manufacturer:	ABS Pumps or ITT Flygt
Location:	Imhoff Tank
Duty:	54 m <sup>3</sup> /hr
Total Head:	4.0m
No. of Pumps:	2
Installation:	Wet Well
Motor Power:	2.2 kW
Speed:	1450 rpm (max.)
Impeller:	Vortex
Features:	Stator Temp. Monitoring Mechanical Seal Monitoring

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## CONTROL PANEL

Tag Reference: CP1  
Manufacturer: TBA  
Type: Composite

The control panel shall include the following:

1 No. 100 amp 3 pole door interlocked switchfuse  
1 No. Mains phase failure relay  
1 No. 500 volt mains voltmeter  
1 No. Voltmeter selector switch  
1 No. Screen  
1 No. Buffer Tank Mixer  
2 No. Buffer Tank Pumps  
6 No. Actuated Valves  
2 No. Aerators  
2 No. Imhoff Tank Pumps  
Control Section

Each of the above units shall have:-

- contactor, overload and MCB
- 1 No. Ammeter
- 1 No. Hours Run Counter
- 1 No. H/O/A selector switch
- 1 No. Run & Trip Indicators

## INSTRUMENTATION

### **Ultrasonic Level Controllers**

Manufacturer: Milltronics or Pulsar  
Range: 0 – 5m  
Output: 4 – 20mA  
Accuracy: +/- 0.25%  
Resolution: 2mm  
Voltage: 220 V  
Classification: EEX  
Converter: Wall, rack or panel

### **Dissolved Oxygen**

Tag Reference: DO1 & DO2  
Manufacturer: ABB or equivalent  
Type: Self-cleaning floating ball

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**BALLYRAGGETT SEWERAGE SCHEME**

**IMPROVEMENT 2002**

**AGREEMENT:**

**KILKENNY COUNTY COUNCIL**

**And**

**BDR CONSTRUCTION LIMITED**

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# AGREEMENT

**WHEREAS** the County Council of the County of Kilkenny of County Hall John Street Kilkenny the Sanitary Authority is desirous of constructing a Sewerage Scheme in pursuance of the provisions of The Local Government (Sanitary Services) Acts 1878 to 1964 briefly described as

***BALLYRAGGETT SEWERAGE SCHEME IMPROVEMENT 2002***

(hereinafter called "the Scheme") and of carrying out works briefly described as

***Extension of Ballyraggett Wastewater Treatment Plant***

(hereinafter called "the Works") at Ballyraggett Wastewater Treatment Plant in the Town of Castlecomer County Kilkenny (hereinafter called "the Plant") for the purpose of the construction of the said Scheme

**NOW THIS AGREEMENT** (hereinafter called "the Agreement") is made

this day the 3<sup>rd</sup> day of the month of  MAY  the year  2002

**BETWEEN**

the First Party **Kilkenny County Council of County Hall John Street Kilkenny**  
(hereinafter called "the Public Partner")

**AND**

the Second Party **BDR Construction Limited of Ballyraggett County Kilkenny**  
(hereinafter called "the Private Partners")

for the purpose of carrying out the said Works in accordance with the Terms and Conditions hereunder and the Schedule of Particulars attached hereto

**IN WITNESS** whereof we the above named Parties have caused this Agreement to be entered into in the manner required by law and have signed this Agreement and affixed our respective Common Seals hereto

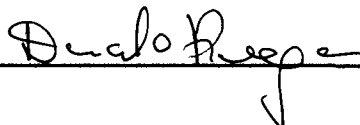
For and on behalf of Kilkenny County Council



County Secretary/ Director of Services

For and on behalf of BDR Construction Limited

**Mr. Donie O'Regan**



**Rank** Director BDR Construction Ltd.

## TERMS AND CONDITIONS

1. **THE AGREEMENT** shall comprise
  - 1.1. The signed and sealed Agreement document
  - 1.2. The Terms and Conditions
  - 1.3. The Schedule of Particulars and Specifications appended hereto
  - 1.4. Such Mechanical Engineering and Civil Engineering Designs Specifications and Drawings as are hereinafter specified in the Schedule of Particulars and Specifications appended hereto
  - 1.5. Such additional Documents being Designs Specifications and Drawings or amendments thereto issued for the purposes of the execution of the Works by the said Public Partner or the said Private Partners or by any Contractor or subcontractor or supplier of materials or equipment to be installed or used in the execution of the Works by the said Private Partners his Agents Servants Workmen and Contractors PROVIDED that the aforesaid Documents shall have been submitted to and approved by the said Public Partner as set out in the Schedule of Particulars and Specifications appended hereto
  - 1.6. Such other documents as are mentioned in the Agreement or any subsection thereof
2. **THE WORKS** shall be designed executed completed and commissioned by the said Private Partners in accordance with this Agreement and in such manner and within such time and subject to such guarantees as are set out in the Schedule of Particulars and Specifications appended hereto
3. **THE COST** of the Works shall be provided for by the Parties in the manner set out hereunder
  - 3.1. The Public Partner will contribute 40 % of the Cost of the Scheme hereinafter referred to as “the Public Partner’s Contribution”
  - 3.2. The Private Partners will contribute 60 % of the Cost of the Scheme “the Private Partners’ Contribution”
  - 3.3. The manner in which the several Contributions shall be made by the aforesaid Parties shall be as set out in the Schedule of Particulars and Specifications appended hereto
4. **THE COMMISSIONING** or bringing into use of the Works in the manner set out in the Schedule of Particulars and Specifications appended hereto shall entitle the said Private Partners to discharge sewage or wastewater to the said Works from a Development at present being constructed by the said Private Partners at Ballyraggett County Kilkenny and any extension thereto which will have been Granted the necessary Planning Permissions and Consents by the Planning Authority or An Bord Pleanála provided the total five-day Biochemical Oxygen Demand loading of the said sewage or wastewater does not exceed that which would be produced by a population equivalent to 630 persons
5. **FAILURE TO COMPLETE** the Works or any portion thereof or to make the several contributions to Costs hereinbefore specified in accordance with the Agreement shall be subject to such procedures as are set out in the Schedule of Particulars and Specifications appended hereto
6. **ALL OR ANY DISPUTES** arising between the aforesaid Parties arising out of the Design Execution Commissioning Completion or Provision for the Costs of the said Works shall be subject to such procedures as are set out in the Schedule of Particulars and Specifications appended hereto
7. **THE COMPLETION** by the said Private Partners of the said Works hereinbefore specified in accordance with this Agreement shall be certified by the said Public Partner as set out in the Schedule of Particulars and Specifications appended hereto and such a certification shall be deemed to be a discharge of the said Agreement and a complete discharge of all obligations on the part of the said Private Partners in connection with the construction or installation of the said Works

## SCHEDULE OF PARTICULARS AND SPECIFICATIONS

### 1. ENGINEERS

- 1.1. The Engineer for the Public Partner for the purposes of the Agreement shall be **Mr Tom Gunning Director of Services Kilkenny County Council** (hereinafter referred to as "the Engineer") or other Engineer appointed from time to time by the Public Partner or instructed by the said Engineer or other Engineer to act as Engineer in place of the said Engineer.
- 1.2. The Engineer for the Private Partners for the purposes of the Agreement shall be **Aidan O'Connell and Associates of 11 Lismard Court Portlaoise County Laois** (hereinafter referred to as "the Consulting Engineer") or other Consulting Engineer appointed from time to time by the Private Partners to act as Consulting Engineer in place of the said Consulting Engineer.
- 1.3. The Private Partners shall not appoint any other Consulting Engineer in place of the said Consulting Engineer without the written approval of the Public Partner to such an appointment.

### 2. DESIGN OF THE WORKS

- 2.1. The Works shall be designed to treat a sewage load which will have a total five-day Biochemical Oxygen Demand (hereinafter called "BOD<sub>5</sub> loading") equivalent to that which would be produced by a population of 1920 persons, calculated as follows
  - 2.1.1. The sewage load discharged to the Works by existing Development in Ballyragget has a BOD<sub>5</sub> loading equivalent to that which would be produced by a population of 760 persons
  - 2.1.2. The capacity to treat sewage discharged to the Works that is Reserved by the Private Partners to accommodate both permitted and future Developments constructed by the said Private Partners in Ballyragget which will have been Granted the necessary Planning Permissions and Consents by the Planning Authority or An Bord Pleanála is equivalent to the BOD<sub>5</sub> loading which would be produced by a population of 630 persons.
  - 2.1.3. The capacity to treat sewage discharged to the Works that is Reserved by the Public Partner to accommodate future Developments in Ballyragget which will have been Granted the necessary Planning Permissions and Consents by the Planning Authority or An Bord Pleanála other than those constructed by the said Private Partners is equivalent to the BOD<sub>5</sub> loading which would be produced by a population of 530 persons.
- 2.2. The capacity to treat sewage discharged to the Works that is Reserved by both the Public Partner and the Private Partners, hereinafter referred to as "the Total Reserved Capacity", is therefore equivalent to the BOD<sub>5</sub> loading which would be produced by a population of 1160 persons.
- 2.3. The Private Partners may discharge sewage to the Works from a Development at present being constructed by the said Private Partners at Ballyragget County Kilkenny and future Developments which will have been Granted the necessary Planning Permissions and Consents by the Planning Authority or An Bord Pleanála provided the total BOD<sub>5</sub> loading of the said sewage or wastewater does not exceed that which would be produced by a population equivalent to 630 persons.

### 3. ARRANGEMENTS FOR FINANCING THE WORKS

- 3.1. The Cost of the Works having been estimated by the Consulting Engineer at about €500,000 including Value Added Tax where applicable the Actual Cost of the works shall be calculated as being equal to the sum of the following elements
  - 3.1.1. The actual costs to the Private Partners of all necessary Civil Engineering construction works undertaken by the said Private Partners as set out hereunder for the purpose of executing the Works
  - 3.1.2. The actual costs to the Private Partners of all necessary Mechanical Engineering installation works undertaken by the said Private Partners as set out hereunder for the purpose of executing the Works
  - 3.1.3. The actual costs to the Private Partners of all necessary Engineering Design and Consulting services undertaken by the said Private Partners for the purpose of executing the Works
  - 3.1.4. The actual costs to the Public Partner of all necessary services provided by the said Public Partner for the purpose of executing the Works
  - 3.1.5. The actual costs to the Public Partner of all necessary Engineering Design and Consulting services undertaken by the said Public Partner for the purpose of executing the Works
- 3.2. The aforesaid Actual Costs shall be subject to the approval of the Engineer and agreed with the Public Partner upon the certification of the said Engineer.

- 3.3. Payment of the Public Partner's Contribution to the Cost of the Works shall be made in stages and of amounts that shall be directly related to the value of work completed by the Private Partners in executing the Works following Certification by the Engineer as set out hereunder.
- 3.4. The aforesaid amounts shall be lodged by the Public Partner to the account of the Private Partners.
- 3.5. It is recognised that the Private Partners' Contribution to the Cost of the Works exceeds that proportion of the Cost of the Works which would be attributable to them on the basis that the capacity to treat sewage discharged to the Works that is Reserved by the Private Partners is equal to  $\frac{630}{1160}$ ths of the Total Reserved Capacity
- 3.6. As a consequence Kilkenny County Council hereby agrees that the Private Partners will be allowed to credit the excess of their contribution to the Cost of the Works over and above  $\frac{630}{1160}$ ths of 60% of the said Cost of the Works against their Development Contributions for Roads and Open Spaces as set out in Grant of Permission Number P00/691 in the Planning Register entitled "*Full Planning Permission to demolish existing shed and construct 99 houses, 4 shop units with 5 apartments in total over the shops on lands at Ballyraggett, Co. Kilkenny*" and Grant of Permission Number P02/173 in the Planning Register entitled "*Planning Permission to construct 2 houses on lands at Ballyraggett Co. Kilkenny. This is an amendment to Planning Permission 00/691 replacing house numbers 39 and 40 from a semi to two detached houses*".

#### **4. CERTIFICATION OF PAYMENTS**

- 4.1. The Private Partners may make application to the Engineer for a Certificate for Payment of a portion of the Public Partner's Contribution in respect of
  - 4.1.1. Plant delivered to the site.
  - 4.1.2. Works executed on the site
  - 4.1.3. Taking Over of the Works as set out hereunder
  - 4.1.4. Completion of the Works as set out hereunder
- 4.2. Upon the application of the Private Partners the Engineer shall issue an Interim Certificate of Payment which shall certify the total sum to be paid to the Private Partners by the Public Partner in accordance with the following terms of payment:
  - 4.2.1. 40% of 90% of the value of work done and equipment permanently installed on site less previous payments shall be certified
  - 4.2.2. 5% of the Public Partner's Contribution shall be certified on issue of the Taking Over Certificate, less the cost of any work remaining to be completed.
  - 4.2.3. 2½% of the Public Partner's Contribution plus the amount deducted in the previous certificate shall be certified in respect of uncompleted work being completed within the time stated in the Taking Over Certificate.
  - 4.2.4. The balance of 2½% of the Public Partner's contribution shall be certified upon expiry of the Maintenance Period.

#### **5. SITE OF THE WORKS**

- 5.1. The site shall mean the minimum necessary or practicable extent of all lands, roadways, passages and rights of way (whether public or private) along through in or over which the works or any addition alteration or revision thereto in accordance with the Agreement are to be carried out.
- 5.2. Possession of the site shall mean possession of those areas defined above and portions thereof required from time to time to accommodate the Works. The Private Partners shall not necessarily have sole possession of the site.

#### **6. DESIGN OF THE WORKS**

- 6.1. The design of the Works shall comprise Mechanical Engineering and Civil Engineering Designs Specifications and Drawings prepared or approved by the Private Partners or their Consulting Engineer.
- 6.2. The aforesaid Designs and Specifications shall be subject to the approval of the Engineer before the Works are commenced.

#### **7. INSTALLATION PROGRAMME**

- 7.1. A Programme of Works which shall set out a Period of Time for Completion of the Works shall be submitted by the Private Partners and shall be subject to the approval of the Engineer before the Works are commenced.
- 7.2. The said Programme shall be drawn up and executed in such a manner as to permit the existing system of wastewater treatment in the Plant to continue in operation to the maximum extent practicable while the Works are being executed.

## **8. MATERIALS AND EQUIPMENT**

8.1. The Materials and Equipment both those to be employed in the execution of the Works and those to be permanently installed in the Plant in accordance with aforesaid Designs and Specifications by the said Private Partners their Agents Servants Workmen and Contractors shall be subject to the approval of the Engineer before they are employed or installed in the Works as the case may be.

## **9. EXECUTION OF THE WORKS**

9.1. The Civil Engineering Works shall be carried out by a competent specialist Civil Engineering Contractor appointed by the Private Partners using normal procurement procedures in accordance with approved Designs Specifications and Drawings showing the Civil Engineering construction requirements of the Mechanical Engineering Installation.

9.2. The appointment of such specialist Civil Engineering Contractor shall be subject to the written approval of the Engineer

9.3. The Private Partners shall not appoint any other Civil Engineering Contractor in place of the said Civil Engineering Contractor without the written approval of the Public Partner to such an appointment

9.4. The Mechanical Engineering Works shall be carried out by a competent specialist Mechanical Engineering Contractor appointed by the Private Partners using normal procurement procedures who shall be Contractor for the Mechanical Engineering Installation to the Private Partners for the purposes of the Agreement.

9.5. The appointment of such specialist Mechanical Engineering Contractor shall be subject to the written approval of the Engineer

9.6. The Private Partners shall not appoint any other Mechanical Engineering Contractor in place of the said Mechanical Engineering Contractor without the written approval of the Public Partner to such an appointment

9.7. The Private Partners shall not appoint any Civil or Mechanical Engineering Subcontractor to carry out the Works or any portion thereof without the written approval of the Public Partner to such an appointment

9.8. The Materials and Methods of Construction employed by the said Private Partners their Contractors and Subcontractors (if any) in the execution of the Works shall be approved by the by the Engineer.

## **10. CHANGES AND ADDITIONS**

10.1. Notwithstanding any previous approval given the Engineer shall have the right to make any changes to the Design of the Works, the Materials and Equipment, the Methods of Construction or the Programme of Works either before or after the commencement of the Works as he may deem to be necessary. Such changes must be authorised in writing by the Engineer and shall in no way affect the rights or obligations of either party.

10.2. Changes or Additional works found by the Private Partners to be necessary during the execution of the Works shall be notified in writing to the Engineer whose approval must be obtained before any such changes or additions are executed.

10.3. Changes or Additional works carried out at the direction of the Engineer or found to be required during the course of the execution of the Works shall become part of the Works for the purposes of the Agreement and shall be subject to the Terms and Conditions and Specifications of the Agreement.

## **11. INSPECTION OF WORKS**

11.1. The Works shall be subject to such inspection by the Engineer during the course of the construction or installation as the said Public Partner may see fit for the purpose of verifying that they are being executed in accordance with the Agreement

## **12. DEFECTS**

12.1. Defects arising in the Works from faulty workmanship by any of the aforesaid Contractors or by any Subcontractor (if any) or supplier of materials or equipment employed by any of the aforesaid Contractors or Subcontractors (if any) shall be made good by repair replacement or reconstruction as may be required. Any such repair replacement or reconstruction shall be to the satisfaction of the Engineer. The cost of such repair replacement or reconstruction shall not be included in the Cost of the Works but shall be borne by the Contractor responsible or in default of same by the Private Partners.

12.2. Defects arising in the Works from unforeseen conditions in the Site of the Works or the wastewater to be treated in the Plant shall be made good by repair replacement or reconstruction as may be required. Any such repair replacement or reconstruction shall be to the satisfaction of the Engineer. The cost of such repair replacement or reconstruction shall be included in the Cost of the Works.

- 12.3. Work carried out in order to remedy or repair defects arising in the Works shall become part of the Works for the purposes of the Agreement and shall be subject to the Terms and Conditions and Specifications of the Agreement.

### **13. COMMISSIONING**

- 13.1. The Works shall be commissioned and brought into use by the Contractor for the Mechanical Engineering installation.
- 13.2. Three copies of a bound Operating Manual for the Mechanical Plant shall be prepared by the Contractor for the Mechanical Engineering Installation and provided to the Public Partner. The said Manual shall contain full details and drawings as appropriate of each and every item of Mechanical Plant together with comprehensive details of the correct maintenance of each and every such item.
- 13.3. The Public Partner's Caretaker shall be comprehensively instructed by the aforesaid Contractor in the correct operation and maintenance of the Plant to the satisfaction of the Engineer.

### **14. TAKING OVER**

- 14.1. The Works shall be Taken Over by the Public Partner after Commissioning even though minor items of work which do not affect the capacity of the Plant to operate remain uncompleted
- 14.2. The Taking Over of the works shall entitle the Private Partners to a Taking Over Certificate to be issued by the Engineer and on foot of which the Private Partners may apply for an Interim Payment as set out above

### **15. MAINTENANCE PERIOD**

- 15.1. The Contractor for the Mechanical Engineering Installation shall provide a Guarantee of the correct functioning of all items of equipment installed by him for a period of twelve months after the Plant has been commissioned.
- 15.2. Any defects arising in any item of equipment during the Maintenance Period shall be made good to the satisfaction of the Engineer at the expense of the Contractor for the Mechanical Engineering Installation or in default of said Contractor by the Private Partners.

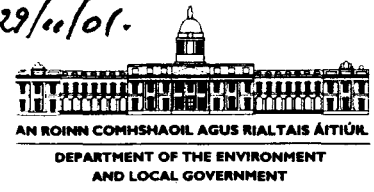
### **16. COMPLETION**

- 16.1. After the expiry of the Maintenance Period and provided that there is no work as specified in the Schedule of Particulars and Specifications remaining uncompleted the Private Partners shall be entitled to a Certificate of Completion to be issued by the Engineer and on foot of which the Private Partners may apply for an Interim Payment as set out above.
- 16.2. The issue by the Engineer of the Certificate of Completion shall discharge the Agreement and shall be a certification that the Private Partners has completed the Works to the satisfaction of the Engineer.
- 16.3. The issue by the Engineer of the Certificate of Completion shall be deemed to be a certification that the Private Partners have discharged their obligations with respect to Conditions 5(c), 5(e) and 5(f) of the Planning Conditions attached to Grant of Permission Number P00/691 in the Planning Register entitled "*Full Planning Permission to demolish existing shed and construct 99 houses, 4 shop units with 5 apartments in total over the shops on lands at Ballyraggett, Co. Kilkenny*" and Grant of Permission Number P02/173 in the Planning Register entitled "*Planning Permission to construct 2 houses on lands at Ballyraggett Co. Kilkenny. This is an amendment to Planning Permission 00/691 replacing house numbers 39 and 40 from a semi to two detached houses*".

### **17. DISPUTES**

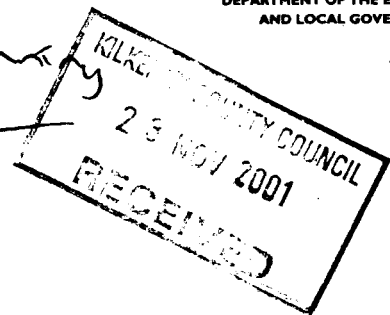
- 17.1. Any reference to Arbitration shall be deemed to be a submission to Arbitration within the meaning of the Arbitration Act, 1954 and 1980 or any statutory re-enactment or amendment thereof for the time being in force.
- 17.2. Any reference to arbitration shall be conducted in accordance with the Institution of Engineers of Ireland Arbitration Procedure (1987) or any amendment or modification thereof being in force at the time of the appointment of an Arbitrator.
- 17.3. The Arbitrator or Arbitrators shall be appointed by the President of the Institution of Engineers of Ireland.
- 17.4. Such Arbitrators shall have full power to open up, review and revise any decision, opinion, instruction, direction, certificate or valuation of the Engineer or of the Consulting Engineer.
- 17.5. Neither party shall be limited in the proceedings before such Arbitrator to the evidence or arguments put before the Engineer or of the Consulting Engineer for the purposes of obtaining his decision above referred to.
- 17.6. The award of the Arbitrator shall be final and binding on the Parties.

20/11/01  
D. Deehan on 29/11/01.



County Secretary,  
Kilkenny County Council,  
County Hall,  
John Street,  
Kilkenny.

*U. Tom Kenny*



22 November 2001

AN ROINN COMHSHAOIL  
AGUS RIALTAIS ÁITIÚL  
DEPARTMENT OF  
THE ENVIRONMENT AND  
LOCAL GOVERNMENT

**Re: Approvals under the Serviced Land Initiative Scheme.**

A Chara,

I am directed by the Minister for the Environment and Local Government to inform you that the following scheme has been approved under the Serviced Land Initiative:

Scheme	No. of Sites	Cost -£
Mooncoin Sewerage Scheme	250	400,000
Callan Sewerage Treatment Works	692	890,000
Ballyragget Sewerage Scheme	300	450,000
		<b>€571,382</b>

BLOC 1, URLÁR 2

FOIRGNIMH IRISH LIFE

SR. NA MAINISTREACH ÍOCHT.

BAILE ÁTHA CLIATH 1

BLOCK 1, FLOOR 2

IRISH LIFE CENTRE

LOWER ABBEY STREET

DUBLIN 1

Tel No: +353 1 888 2000

LoCall No: 1890 20 20 21

Fax No: +353 1 888 2687

I am also to request the Council to progress the project without delay.

Please note that Exchequer funding will be provided at a rate of 40% of the approved cost of the schemes in accordance with circular L5/98. I enclose a payment claim form for completion where appropriate. You are reminded that 50% of the appropriate grant will be paid on notification to the Department that the scheme has commenced or the construction contract has been signed.

Up to date records on the progress and results of Serviced Land Initiative schemes are necessary to ensure the success of the Initiative and its continued implementation. The Council should therefore ensure that the quarterly reports for each Serviced Land Scheme in your area are submitted promptly. When completing these forms, it is important to give precise construction start and end dates for each scheme and details of the current status of the scheme and the number of housing sites to be provided. The forms have been designed in order to collect vital basic information while minimising the effort required of individual local authorities

If you have any queries in this matter, please contact the undersigned. (01 – 8882166)

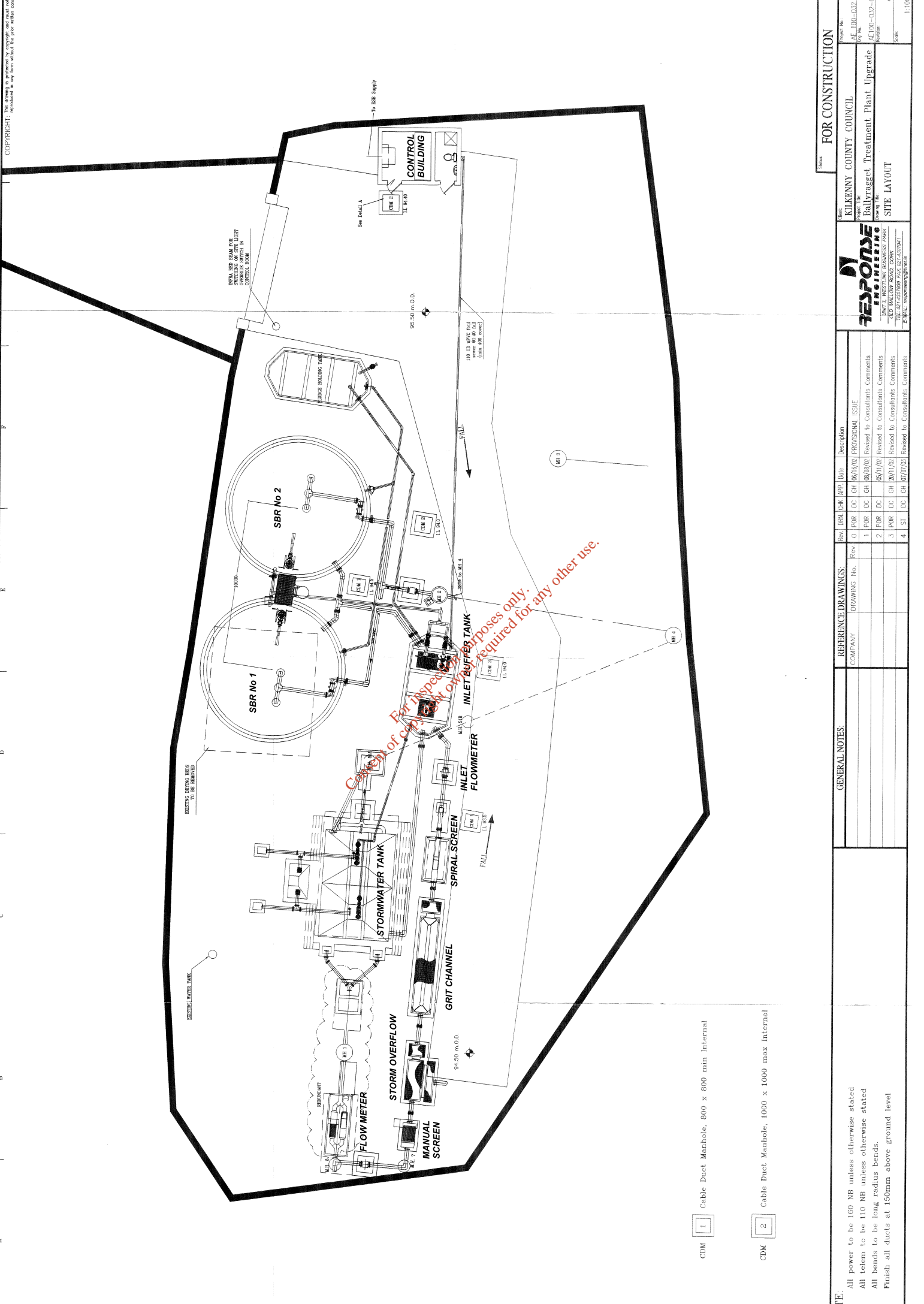
Mise, le meas,

*Margaret McHugh*  
Margaret McHugh  
Water Services Section

*grant = 40% of estimated cost  
€571,382 x 40% = €228,553*



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- 1 Cable Duct Manhole, 800 x 800 min Internal
- 2 Cable Duct Manhole, 1000 x 1000 max Internal

NOTE:  
 All power to be 160 NB unless otherwise stated  
 All telems to be 110 NB unless otherwise stated  
 All bends to be long radius bends.  
 Finish all ducts at 150mm above ground level

GENERAL NOTES:

Rev.	DRN	CHK	APP.	Date	Description
1	FOR	DC	GH	06/06/02	PROVISIONAL ISSUE
2	FOR	DC	GH	08/08/02	Revised to Consultants Comments
3	FOR	DC	GH	26/11/02	Revised to Consultants Comments
4	ST	DC	GH	07/07/03	Revised to Consultants Comments

REFERENCE DRAWINGS:

COMPANY	DRAWING No.	Description

FOR CONSTRUCTION

Client:	KILKENNY COUNTY COUNCIL
Project No.:	AE 100-032
Project Title:	Ballpragget Treatment Plant Upgrade
Drawing Title:	SITE LAYOUT
Scale:	1:100

**RESPONSE**  
 ENVIRONMENTAL ENGINEERS  
 100 BALDWIN ROAD, COBK  
 TEL: 01274-520789 FAX: 01274-527284  
 E-MAIL: response@response.ie

## **B.8.2 Copy of Site Notice**

### **Kilkenny County Council**

#### **Waste Water Discharge (Authorisation) Regulations, 2007. (S.I. 684 of 2007).**

#### **Application to the Environmental Protection Agency for a Waste Water Discharge Licence**

In accordance with the requirements of Sections 9 and 11 of the above Regulations Kilkenny County Council hereby gives notice of the Council's intention to make an application to the Environmental Protection Agency for a Discharge Licence. The application shall be made within a period of two weeks from the date of publication of this notice and not later than 28th February 2009.

The Discharge Licence application relates to the discharge from the Ballyragget Agglomeration which is served by Ballyragget Waste Water Treatment Plant, Ballyragget, Co. Kilkenny (244603E, 170141N). The sole discharge point from the Plant discharges directly to the River Nore at Ballyragget, Co. Kilkenny (244550E, 170147N).

Ballyragget Waste Water Treatment Plant treats wastewater influents from Ballyragget Agglomeration, all such waste waters are supplied by gravity to the plant with one small pumping station at Glen Vale in the town which pumps to the gravity mains. The sewer network includes 3 storm water overflows discharging to the River Nore.

A copy of the application, together with such further information relating to the application as may be furnished to the Agency, shall be made available, as soon as is reasonably practicable post receipt, for public inspection or purchase at the Agency's headquarters, Johnstown Castle Estate, County Wexford.

A copy of the application shall also be available for public inspection or purchase at the offices of Kilkenny County Council, County Hall, John Street, Kilkenny from 02nd March 2009.

A person may make submissions to the Environmental Protection Agency with respect to this application, all such submissions addressed to;

Environmental Protection Agency,  
PO Box 3000,  
Johnstown Castle Estate,  
County Wexford.

**Michael Arthurs,  
Senior Executive Officer,  
Water Services,  
Kilkenny County Council.**

### B.8.3 Photographs of Site Notice In Place



Photo KK-WWDL-207-B.8.3.1 Site Notice Erected



Photo KK-WWDL-207-B.8.3.2 Close up of Site Notice Erected

## **B.8.4 Copy of Newspaper Notice**

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# The Councils of the County & City of Kilkenny

## NEWS & NOTICES

**APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTE WATER DISCHARGE LICENCE**  
**Waste Water Discharge (Authorisation) Regulations, 2007.**  
 In accordance with the requirements of Section 10 of the above Regulations Kilkenny County Council hereby publishes notice of the Council's intent to make an application to the Environmental Protection Agency for a Discharge Licence. The application shall be made within a period of two weeks from the date of publication of this notice.  
 The Discharge Licence application relates to the discharge from the Stonyford Agglomeration which is served by Stonyford Waste Water Treatment Plant, Cotterellsbooly, Stonyford, Co. Kilkenny (252422E, 143763N). The sole discharge point from the Plant discharges directly to the King's River at Ennisnag, Stonyford, Co. Kilkenny (252491E, 143925N).  
 A copy of the Discharge Licence application shall be available for public inspection at the offices of the Environmental Protection Agency, Johnstown Castle Estate, County Wexford and at the offices of Kilkenny County Council, County Hall, John Street, Kilkenny from 2nd March 2009 during normal office hours.  
 A person may make written submissions to the Agency with respect to this application to be addressed to; Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, County Wexford.  
**Michael Arthurs, Senior Executive Officer, Water Services, Kilkenny County Council.**

**APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTE WATER DISCHARGE LICENCE**  
**Waste Water Discharge (Authorisation) Regulations, 2007.**  
 In accordance with the requirements of Section 10 of the above Regulations Kilkenny County Council hereby publishes notice of the Council's intent to make an application to the Environmental Protection Agency for a Discharge Licence. The application shall be made within a period of two weeks from the date of publication of this notice.  
 The Discharge Licence application relates to the discharge from the Ballyragget Agglomeration which is served by Ballyragget Waste Water Treatment Plant, Ballyragget, Co. Kilkenny (244603E, 170141N). The sole discharge point from the Plant discharges directly to the River Nore at Ballyragget, Co. Kilkenny (244550E, 170147N).  
 A copy of the Discharge Licence application shall be available for public inspection at the offices of the Environmental Protection Agency, Johnstown Castle Estate, County Wexford and at the offices of Kilkenny County Council, County Hall, John Street, Kilkenny from 2nd March 2009 during normal office hours.  
 A person may make written submissions to the Agency with respect to this application to be addressed to; Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, County Wexford.  
**Michael Arthurs, Senior Executive Officer, Water Services, Kilkenny County Council.**

**APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTE WATER DISCHARGE LICENCE**  
**Waste Water Discharge (Authorisation) Regulations, 2007.**  
 In accordance with the requirements of Section 10 of the above Regulations Kilkenny County Council hereby publishes notice of the Council's intent to make an application to the Environmental Protection Agency for a Discharge Licence. The application shall be made within a period of two weeks from the date of publication of this notice.  
 The Discharge Licence application relates to the discharge from the Urlingford Agglomeration which is served by Urlingford Waste Water Treatment Plant, Urlingford, Co. Kilkenny (228211E, 163804N). The sole discharge point from the Plant discharges directly to the Goul River in at Urlingford, Co. Kilkenny (228202E, 163852N).  
 A copy of the Discharge Licence application shall be available for public inspection at the offices of the Environmental Protection Agency, Johnstown Castle Estate, County Wexford and at the offices of Kilkenny County Council, County Hall, John Street, Kilkenny from 2nd March 2009 during normal office hours.  
 A person may make written submissions to the Agency with respect to this application to be addressed to; Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, County Wexford.  
**Michael Arthurs, Senior Executive Officer, Water Services, Kilkenny County Council.**

**APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTE WATER DISCHARGE LICENCE**  
**Waste Water Discharge (Authorisation) Regulations, 2007.**  
 In accordance with the requirements of Section 10 of the above Regulations Kilkenny County Council hereby publishes notice of the Council's intent to make an application to the Environmental Protection Agency for a Discharge Licence. The application shall be made within a period of two weeks from the date of publication of this notice.  
 The Discharge Licence application relates to the discharge from the Clogh-Moneenroe Agglomeration which is served by Clogh-Moneenroe Waste Water Treatment Plant, Moneenroe, Co. Kilkenny (254941E, 176122N). The sole discharge point from the Plant discharges directly to the River Dinin at Moneenroe, Co. Kilkenny (254615E, 175863N).  
 A copy of the Discharge Licence application shall be available for public inspection at the offices of the Environmental Protection Agency, Johnstown Castle Estate, County Wexford and at the offices of Kilkenny County Council, County Hall, John Street, Kilkenny from 2nd March 2009 during normal office hours.  
 A person may make written submissions to the Agency with respect to this application to be addressed to; Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, County Wexford.  
**Michael Arthurs, Senior Executive Officer, Water Services, Kilkenny County Council.**

**APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTE WATER DISCHARGE LICENCE**  
**Waste Water Discharge (Authorisation) Regulations, 2007.**  
 In accordance with the requirements of Section 10 of the above Regulations Kilkenny County Council hereby publishes notice of the Council's intent to make an application to the Environmental Protection Agency for a Discharge Licence. The application shall be made within a period of two weeks from the date of publication of this notice.  
 The Discharge Licence application relates to the discharge from the Paulstown Agglomeration which is served by Paulstown Waste Water Treatment Plant, Shankill, Paulstown, Co. Kilkenny (266500E, 159107N). The sole discharge point from the Plant discharges directly to the Barrow Race at Duninga, Goresbridge, Co. Kilkenny (268874E, 158068N).  
 A copy of the Discharge Licence application shall be available for public inspection at the offices of the Environmental Protection Agency, Johnstown Castle Estate, County Wexford and at the offices of Kilkenny County Council, County Hall, John Street, Kilkenny from 2nd March 2009 during normal office hours.  
 A person may make written submissions to the Agency with respect to this application to be addressed to; Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, County Wexford.  
**Michael Arthurs, Senior Executive Officer, Water Services, Kilkenny County Council.**

**APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTE WATER DISCHARGE LICENCE**  
**Waste Water Discharge (Authorisation) Regulations, 2007.**  
 In accordance with the requirements of Section 10 of the above Regulations Kilkenny County Council hereby publishes notice of the Council's intent to make an application to the Environmental Protection Agency for a Discharge Licence. The application shall be made within a period of two weeks from the date of publication of this notice.  
 The Discharge Licence application relates to the discharge from the Gowran Agglomeration which is served by Gowran Waste Water Treatment Plant, Gowran Demesne, Gowran, Co. Kilkenny (263940E, 152999N). The sole discharge point from the Plant discharges directly to the Gowran River at Gowran Demesne, Gowran, Co. Kilkenny (263961E, 153001N).  
 A copy of the Discharge Licence application shall be available for public inspection at the offices of the Environmental Protection Agency, Johnstown Castle Estate, County Wexford and at the offices of Kilkenny County Council, County Hall, John Street, Kilkenny from 2nd March 2009 during normal office hours.  
 A person may make written submissions to the Agency with respect to this application to be addressed to; Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, County Wexford.  
**Michael Arthurs, Senior Executive Officer, Water Services, Kilkenny County Council.**

# LIBRARY NEWS

**"A" is for Amnesty, "B" is for book, "C" is for CD and "D" is for DVD, "E" is for everyone and "F" is for NO fines! ...at the library**

[www.kilkennylibrary.ie](http://www.kilkennylibrary.ie)

**Library Ireland Week** takes place from 2nd to 8th March and right in the middle of this week is World Book Day on 6th March. This day is the biggest annual celebration of books and reading in the UK and Ireland. To mark World Book Day, Kilkenny Library Service invites you to return any overdue books/CDs/DVDs etc. for free! All you need to do is bring along those long lost items and drop them into the designated box in your local library. All fines on the day will be waived.

**Read any good books lately?** Care to recommend one and win a prize?

To celebrate Library Ireland Week the library will award a prize of €100 for the best review of an adult book. Please send your reviews to your local library by 18th March.

**READ ALONG**

Read Along audio CD and Large Print books bring you, in one attractive, easy-to-handle pack, the very best of contemporary children's fiction. Books and recordings are complete and unabridged. The pack is ideal for children with sight difficulties, for reluctant readers and for those who like to read along while listening to the words.

The pack is a new approach to reading and listening pleasure. We asked one of our readers to try a pack out. Sarah Khan, age 10, read and listened to "Becky Bananas: This is your life", written by Jean Ure. Sarah said "I really liked the Becky Bananas stories. I listened to them in bed.

Sometimes I used the book to read along but sometimes I just listened. Becky Bananas is an ordinary girl but she has great ambitions. The stories are funny and some made me laugh. The reader (Jan Francis), has a clear voice and makes the stories very lively. I would give this book 10 out of 10. I think lots of girls my age would enjoy this book. "Becky Bananas" is just one of 20 similar titles available in Loughboy library.

**THE LIBRARY IN MACDONAGH JUNCTION**

On Saturday 28th Feb. from 10am to 4pm there will be a new stall in the main mall of the centre. The library staff will be there displaying all the services they provide and answering all your queries. How can I join? What can I borrow?

You might even take part in our free draw for a basket of "literary goodies". Do come and join us to celebrate Library Ireland Week.



**THE BEAUTIFUL PEOPLE OF CASTLECOMER**

Faith Almond will bring her most enjoyable Fashion Talks to Castlecomer for 3 Tuesday nights starting on 24th February. Places are still available. Cost €50.

Ongoing events in the library are Toddler stories and crafts every Thurs. at 11.30am. The Thursday Knitting Club meets at 10am and you can brush up on those nearly forgotten skills along with having a very sociable chat and cup of coffee. Thursday at 4.40pm it's all music with the very successful Kindermusic classes. Phone 0564440561 for details.

**GRAIGNAMANAGH LIBRARY NEWS - 056 7794178**

Daffodil Day is coming up on 20th March. We have some Daffodil Day items for sale in the library at present. These include pens, keyrings, air fresheners, mugs, umbrellas and shopping bags. A coffee morning will be held in the library at 10.30am on Fri 20th March. Please support this worthy cause.

Electoral Register Is your name included in the most recent edition of the Electoral Register? Check in the Library. Application forms to be included in the supplement to the

Electoral Register for 2009 are also available.

**HOLIDAYS!** Need some inspiration for your holidays. Come in and check out our extensive range of travel books and travel guides. Need a book to help you relax and feel like you are on holidays, we can help with that too!

Education Information On display in the Library at the moment is a selection of Educational Leaflets, information on courses available and back to college brochures. Learn a new skill or train for the job you always wanted.

Exhibition There is an exhibition on display in the Library at the moment by Skeough Playgroup & Montessori Pre-School, so why not drop in and have a look at their colourful artwork and painting? Exhibition Space

We have a large area available in the Library for exhibitions including exhibition boards and glass cabinets, so why not call in and book a space to display your paintings, photos, arts and craft or anything else you want to show.

For enquiries call in or phone 056 77 94178 or email [graiguenamanagh@kilkennylibrary.ie](mailto:graiguenamanagh@kilkennylibrary.ie)

**EVENTS HELD DURING ADULT LEARNERS' WEEK.**

This week was a collaboration between the library service and Kilkenny VEC who supplied the tutors. In Urlingford the flower arranging classes, given by Sinead Somers, were a great success and the photo shows the class in progress. The one-to-one tuition that borrowers received in

the computers class was of great benefit to them. In Loughboy, Heike Kahle gave a beginner's class in basketry. Her photo shows one of the works in progress.

**THE LIBRARY AND THE WATERGATE**

Castlecromer Writers' Group's play "Clerical Errors", will be performed in the Watergate on 13th March. If you have been to the theatre recently or plan to go in the near future remember the library has CDs by The Man in Black (Johnny Cash), Kieran Goss, Finbar Wright, Michael English and Tommy Flemming.

You'll enjoy the show all the more when you are familiar with the music. The library also has a stock of playscripts including "Endgame" which will be performed soon.



**INFORMATION EVENING**

**"HIP AND KNEE ARTHRITIS"**

City Library, John's Quay  
 Tuesday 10<sup>th</sup> March  
 7:45pm

HOSTED BY MR. STUART EDWARDS  
 MBBS, FRCS, FRCS  
 (Trauma and Orthopaedics)  
 Consultant Orthopaedic Surgeon  
 &  
 Multi-disciplinary team

Phone City library, John's Quay  
 on 056 7794174  
 or email [citylibrary@kilkennylibrary.ie](mailto:citylibrary@kilkennylibrary.ie)  
 for more information.

**Kilkenny County Council**  
**Section 75 of the Roads Act, 1993**  
**TEMPORARY CLOSURE OF ROADS**

**NOTICE IS HEREBY GIVEN** of the intention of Kilkenny County Council to close to Public Traffic the following public road commencing Monday, 23rd March, 2009 to facilitate works by Waterford Joint Venture on the N25 Waterford Bypass Project. Local access will be facilitated and alternative routes will be signposted.

Road to be Closed	Alternative Routes	Proposed Duration of Closures
From Ballyrobin Crossroads, including Killaspy Crossroads LP3409 and to the intersection with Ballymountain Road LP3410	Ballymountain Road LP3410 to Mullinabro Road	From: Monday, 23rd March, 2009 To: Friday, 24th April, 2009

Any person objecting to the proposed temporary closure of this road may lodge their objection in writing to the undersigned not later than **Wednesday, 4th March, 2009.**

**J. Mulholland, Director of Services, Transportation, Corporate Affairs, Fire and Emergency Services.**

**DONATIONS STATEMENTS**  
**MEMBERS OF LOCAL AUTHORITIES**  
**Local Elections (Disclosure of Donations and Expenditure) Act, 1999 (as amended)**

Notice is hereby given that all Political Donations Statements required by the above Acts which have been received by Kilkenny Local Authorities are now available for inspection during normal office hours as follows:-

**Kilkenny County Council:**  
 Corporate Affairs Office, County Hall, John Street, Kilkenny. (056) 7794085.

**Borough Council:**  
 Borough Council - (056) 7794500  
 Copies of documents are available on request. Please ring to arrange appointment.

**John Mulholland, Director of Services, Corporate Affairs.**

**Brian Tyrrell, Senior Executive Officer, Borough Council.**

**Scéim Cóiríochta ar Cíos**  
**RAS**  
 Rental Accommodation Scheme

**ATTENTION - LANDLORDS**

Get your rental income guaranteed for the future. Kilkenny County Council are currently seeking one bedroom accommodation to rent under the above scheme in the Kilkenny City and Environs area. Guaranteed rents for duration of contract. Contracts are for a minimum period of 4 years.

Registration of Interest forms for Landlords, together with further details of the Scheme are available on our website, [www.kilkennycoco.ie](http://www.kilkennycoco.ie) or can be obtained from the following contacts:

**Annette Fitzpatrick, 056-7794942**  
**Andrew Wall, 056-7794902**

## **B.9 Pending Development**

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## **B.9 (ii) Pending Development**

Where planning permission has been granted for development(s), but development has not been commenced or completed to date, within the boundary of the agglomeration and this development is being, or is to be, served by the waste water works provide the following information;

- information on the calculated population equivalent (p.e.) to be contributed to the waste water works as a result of those planning permissions granted,
  - 788 PE – potential contributing PE from planning permissions granted but not yet developed
- the percentage of the projected p.e. to be contributed by the non-domestic activities, and
  - 23% of projected PE to be contributed by non-domestic
- the ability of the waste water works to accommodate this extra hydraulic and organic loading without posing an environmental risk to the receiving water habitat.
  - Existing treatment plant is presently operating above its design PE. Further analysis is underway as to existing PE demand level.

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## **B.10 Capital Investment Programme**

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Kilkenny Water Services Authority have the 16 Schemes listed in its Assessment of Needs Programme for the development of water services within the county. However the scheme was not subsequently scheduled in the most recent Water Services Investment Programme 2007 to 2009, please see attached.

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# Kilkenny

## Water Services Investment Programme 2007 - 2009

Schemes to start 2008	W/S	Est. Cost
Gowran/ Goresbridge/ Paulstown Water Supply Scheme	W	9,070,000
		<b>9,070,000</b>
<b>Schemes to start 2009</b>		
Ballyragget / Clogh / Castlecomer / Urlingford / Johnstown Water Supply Scheme	W	14,200,000
Bennettsbridge Water Supply Scheme	W	13,370,000
Callan / Graiguenamanagh / Thomastown / Inistiogue Water Supply Scheme	W	20,000,000
Kilkenny City Regional Water Supply Scheme (H)	W	10,000,000
Kilkenny City Wastewater Treatment Plant (H)	S	13,000,000
Kilkenny Sludge Management (H)	S	10,000,000
		<b>80,570,000</b>
<b>Serviced Land Initiative</b>		
Bennettsbridge Sewerage Scheme	S	800,000
Gowran Sewerage Scheme	S	816,000
Kilkenny City Western Environs Sewerage Scheme (H)	W/S	4,800,000
Mooncoin Sewerage Scheme	S	4,000,000
Paulstown Wastewater Treatment Plant	S	750,000
		<b>11,166,000</b>
<b>Rural Towns &amp; Villages Initiative</b>		
Kilmacow Sewerage Scheme	S	5,000,000
		<b>5,000,000</b>
<b>Schemes to Advance through Planning</b>		
Freshford/ Johnstown/ Goresbridge Sewerage Scheme	S	7,900,000
Mooncoin Regional Water Supply Scheme	W	9,000,000
Piltown/Fiddown Water Supply Scheme	W	3,000,000
		<b>19,900,000</b>
<b>Water Conservation Allocation</b>		<b>1,472,000</b>
<b>Asset Management Study</b>		<b>80,000</b>
<b>Programme Total</b>		<b>127,258,000</b>

(H) Refers to a Hub as designated in the National Spatial Strategy

## Section C Attachments

### Infrastructure and Operation

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## C.1 Operational Information Requirements

### C.1.1 Storm Water Overflows

#### C.1.1.1 SWO at Storm Tank in WWTP



Photo KK-WWDL-207-C.1.1.1 – SWO at Storm Tank in WWTP

Please refer to drawing **KK-WWDL-207-B.5.02** for location details (denoted KK207-SWOC-04)

- The effluent comes into the Inlet works and on to the forward feed tank. If the flow is excessive or the forward feed tank is full some of the flow will overflow to the storm tank. Prior to getting to the storm tank the influent is screened. If the storm tank overfills then the influent can overflow from the tank and to the outlet. If this does occur the influent has got screening and primary settlement prior to discharging. The overflow goes from this point to the discharge point KK207-P1.
- With no flow meters in place it is difficult to determine compliance with regulations. This SWO is checked by the caretaker on a daily basis.
- There are no Immediate plans to cease the operation of this storm water overflow

### C.1.1.2 SWO at Inlet Works in WWTP



Photo KK-WWDL-207-C.1.1.2 – SWO at Inlet Works in WWTP

Please refer to drawing **KK-WWDL-207-B.5.03** for location details (denoted KK207-SWOC-02)

- The effluent comes into the Inlet works. If the flow is excessive some of the flow can overflow the baffle wall and discharge to the River Nore. This overflow goes from this point to the discharge point KK207-P1.
- With no flow meters in place it is difficult to determine compliance with regulations. This SWO is checked by the caretaker on a daily basis.
- There are no Immediate plans to cease the operation of this storm water overflow

### C.1.1.3 SWO Behind National School

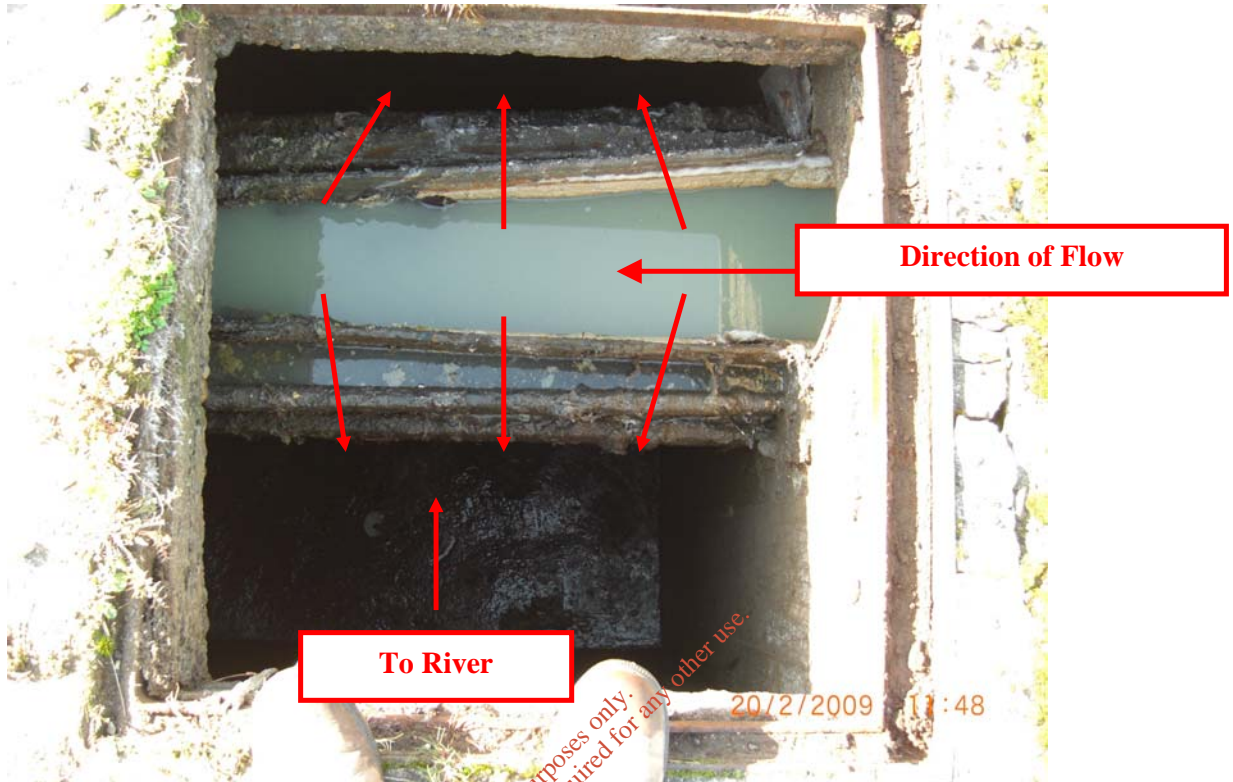


Photo KK-WWDL-207-C.1.1.3 – SWO Behind National School

Please refer to drawing **KK-WWDL-207-B.5.03** for location details (denoted KK207-SWOC-02)

- The effluent comes into the manhole. There is a channel in the manhole in which the sewage must cross. If the flow is excessive some of the flow can overflow the channel walls, drop down to a chamber under the channel and discharge to the River Nore. This overflow goes from this point to the discharge point KK209-SWOO-03.
- With no flow meters in place it is difficult to determine compliance with regulations. This SWO is checked by the caretaker on a daily basis.
- There are no Immediate plans to cease the operation of this storm water overflow

## C.1.2 Pumping Stations

### C.1.2.1 Pumping Station at Glen Vale



Photo KK-WWDL-207-C.1.2.1 – Pumping Station at Glen Vale

Please refer to drawing **KK-WWDL-207-B.5.01** for location details

This Pumping Station is Privately Operated

- 1. Number of duty and standby pumps?**  
2 pumps (1 Duty and 1 Standby)  
Data on Pump make and sizes unknown
- 2. The measures taken in the event of power failure.**  
There is no SWO at this pumping station. In the event of power failure the sump keeps filling and eventually onto the overflows ground.
- 3. Pumping Station Storage Capacity**  
Unknown
- 4. The Frequency and duration of activation of emergency overflow?**  
No Overflow

## **C.2.1 Outfall Design and Construction**

### **C.2.1 P1 Primary Discharge Point**

Please refer to drawing **KK-WWDL-207-B.3.01** for location details.

There are no design detail criteria or construction details available for this discharge point.

### **C.2.2 Secondary Discharge Points**

There are no Secondary Discharge points on this scheme.

### **C.2.3 Storm Water Overflow**

Please refer to drawing **KK-WWDL-207-B.5.00 to B.5.04** for the storm water overflow location details.

There are no design detail criteria or construction details available for these storm water overflow points.

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## **Section D Attachments**

### **Discharges to The Aquatic Environment**

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## D.2 Tabular Data on Discharge Points

PT_CD	PT_TYPE	LA_NAME	RWB_TYPE	RWB_NAME	DESIGNATION	EASTING	NORTHING	VERIFIED
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	Verified with GPS Y or N
KK207-P1	Primary Discharge Pipe	Kilkenny County Council	River	River Nore		244550	170147	Y
KK207-SWOO-01	Storm Water Overflow	Kilkenny County Council	River	River Nore		244550	170147	Y
KK207-SWOO-02	Storm Water Overflow	Kilkenny County Council	River	River Nore		244550	170147	Y
KK207-SWOO-03	Storm Water Overflow	Kilkenny County Council	River	River Nore		244698	170707	Y

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## **Section E Attachments**

### **Monitoring**

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### **E.2.1 General**

Please refer to Drawing KK-WWDL-207-B.2.1 & KK-WWDL-207-B.3.1, Tables KK-WWDL-207-B.2.1 & 2 which identifies the onsite sampling points and the tests carried out at each point. Each sample point is located with safe access and appropriate barriers and safety railings to ensure safe sampling. The sample points denoted as grab samples are taken with a telescopic rod with a beaker fixed to the end. These grab samples are taken in the same locations each time in order to ensure consistency of the samples. Ballyragget WWTP has no composite sampler's onsite. Therefore for sampling purposes, grab samples are taken or our portable composite samplers are brought to site.

The testing is all carried out by Kilkenny County Council staff and predominately the analysis is carried out at our lab in Purcellsinch. With regard to the Dangerous Substance Testing these are outsourced to a private lab, ELS Ltd. Our in-house tests are carried out by lab staff that are of a technical background and have been inducted to the Purcellsinch WWTP lab practices and safety procedures associated with working/sampling in the lab and onsite. In order to ensure accuracy calibration checks are ran regularly. The lab at Purcellsinch WWTP is a member of the EPA intercalibration programme with the last four years. Results and analysis data is stored both electronically and hard copy. The data is entered on a daily basis in the same format, the data is printed, checked and filed on site. The softcopy of the data is then added to our LIMS - Labinfo. All tests are carried out in accordance to the procedures outlined in **KK-WWDL-207-Appendix 2**.

**Note:**

*(Appendix 2 details the lab procedures, calibration details etc. . This data is supplied as part of this report in soft copy only and is available in hard copy on request)*

**E.3 Tabular Data on Monitoring Points**

PT_CD	PT_TYPE	MON_TYPE	EASTING	NORTHING	VERIFIED
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
KK207-001	WWTP Inlet	M & S	244608	170157	Y
KK207-002	Primary Discharge P1	M & S	244600	170140	Y
KK207-003	Upstream of P1	M & S	244562	170173	Y
KK207-004	Downstream of P1	M & S	244524	170061	Y

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## E.4.1 Ballyragget Test Results

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**Table: KK-WWDL-207-E.4.1.1 Ballyragget WWTP - Routine Monitoring Data**

WWTP	Sample Lab Code	Sample Date	BOD mg/l O2	COD mg/l O2	Suspended Solids mg/l	Total Phosphorus mg/Pmg/P	Ortho-phosphate mg/Pmg/P	Total Nitrogen mg/Nmg/N	Ammonia mg/INmg/IN	Chloride mg/l	Nitrate mg/INmg/IN	Nitrite mg/INmg/IN	DO% O2% O2	Conductivity @ 25°C µS/cm	Sulphate mg/l	Temperature °C	pH
Ballyragget WWTP Inlet	0833WW001A1111A207	11/11/2008	566	806	285	9.50	4.2	36.0	30.4	88	2.2	0.152		815	28		8.0
Ballyragget WWTP Inlet	0833WW001A1119A207	19/11/2008	510	669	365	7.30	5.2	7.0	30.4	358	12.1	8.700		848	226		
Ballyragget WWTP Inlet	0833WW001A1125A207	25/11/2008	366	523	167	7.30	7	77.0	40.4	168	18.0	0.009		518	18		8.4
Ballyragget WWTP Inlet	0833WW001A1203A207	03/12/2008	490	701	240	8.30	5.7	59.0	33.7	120	9.2	ND		1544	36		8.1
Ballyragget WWTP Inlet	0833WW001A1208A207	08/12/2008	940	951	970	9.20	5.8	51.0	32.9	243	2.7	ND		1792	105		7.8
Ballyragget WWTP Inlet	0833WW001A1215A207	15/12/2008	296	461	160	5.50	3.5	28.0	25.7	123	4.9	ND		1204	32		7.9
Ballyragget WWTP Outlet	0833WW002A1111A207	11/11/2008	37	116	27	2.10	1.2	2.0			0.7						7.4
Ballyragget WWTP Outlet	0833WW002A1119A207	19/11/2008	30	32	10	1.25	2.5	10.5	2.7	107	3.0	8.700		1051	10		
Ballyragget WWTP Outlet	0833WW002A1125A207	25/11/2008	75	100	18	1.00	1.7	18.0	17.0	103	25.0	0.296		885	7		8.4
Ballyragget WWTP Outlet	0833WW002A1203A207	03/12/2008	80	50	16	2.30	2.9	18.0	3.9	140	18.9	0.816		1238	54		7.6
Ballyragget WWTP Outlet	0833WW002A1208A207	08/12/2008	400	718	112	1.70	1.2	12.0	7.8	108	5.3	0.134		1131	111		7.6
Ballyragget WWTP Outlet	0833WW002A1215A207	15/12/2008	220	407	310	6.30	0.8	6.0	12.2	81	1.5			1029	2		7.6
Ballyragget WWTP Upstream	0833WW003A1111A207	11/11/2008	1.6	41	5	<0.02		1.6	0.03		<0.05			538	17		7.9
Ballyragget WWTP Upstream	0833WW003A1119A207	19/11/2008	1.6	13	2	<0.02	0.05	2.0	0.03	17	2.0	0.008	597	597	14	9.4	8.0
Ballyragget WWTP Upstream	0833WW003A1125A207	25/11/2008	1.9	31	7	0.08	0.078	3.1	0.04	25	2.0	0.009	95	596	17	6.7	8.0
Ballyragget WWTP Upstream	0833WW003A1203A207	03/12/2008	1.8	17	3	0.24	0.04	3.5	0.03	21	3.5	0.012	684		21	4.9	8.2
Ballyragget WWTP Upstream	0833WW003A1208A207	08/12/2008	1.8	<10	7	0.03	0.025	2.6	0.03	17	2.7	0.007	626		24	5.9	8.1
Ballyragget WWTP Upstream	0833WW003A1215A207	15/12/2008	1.6	23	8	<0.02	0.018	<0.02	0.02	20	2.0	0.004	90	553	15	4.2	8.2
Ballyragget WWTP Downstream	0833WW004A1111A207	11/11/2008	1.8	47	5	<0.02	0.021	0.2	0.02		2.1		96	538	17	7.2	7.9
Ballyragget WWTP Downstream	0833WW004A1119A207	19/11/2008	1.8	<10	2	0.02	0.07	2.1	0.03	17	2.0		85	599	16	9.3	8.0
Ballyragget WWTP Downstream	0833WW004A1125A207	25/11/2008	2.1	31	3	0.06	0.08	3.8	0.10	17	2.0		92	561	16	6.4	8.0
Ballyragget WWTP Downstream	0833WW004A1203A207	03/12/2008	2.0	15	2	<0.02	0.046	4.0	0.03	21	3.2	0.013	98	676	21	4.9	8.1
Ballyragget WWTP Downstream	0833WW004A1208A207	08/12/2008	2.0	<6	4	0.19	0.052	3.5	0.06	17	2.9	0.044	88	629	24	5.9	8.1
Ballyragget WWTP Downstream	0833WW004A1215A207	15/12/2008	1.7	31	7	0.03	0.018	<0.02	0.02	16	4.2		88	533	15	4.1	8.2

**Table: KK-WWDL-207-E.4.1.2 Ballyragget WWTP - Dangerous Substances Monitoring**

EntityName	SampleLabCode	SampleDate	2 Methyl 46 dinitrophenol ug/l	2,4 Dichlorophenol ug/l	2,4 Dimethyl Phenol ug/l	2,4,6 Trichloropheno l ug/l	2,4- Dinitrophenol ug/l	2-Chlorophenol ug/l	2-Nitrophenol ug/l	4 Chloro-3- methylphenol ug/l	4-Nitrophenol ug/l	Arsenic ug/l	Atrazine ug/l	Barium ug/l	Boron mg/l	Cadmium ug/l	Chromium ug/l	Copper ug/l	Cyanide - Total ug/l
Ballyragget WWTP Inlet	0833WW001A1111A207	11/11/2008	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	0.4	<0.05	32	<0.02	<0.1	<1	199	<10
Ballyragget WWTP Inlet	0833WW001A1119A207	19/11/2008	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	1.3	<0.05	67	0.11	0.3	14.0	191	<10
Ballyragget WWTP Inlet	0833WW001A1125A207	25/11/2008	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	0.6	<0.05	163	0.02	<0.1	1.3	47	<10
Ballyragget WWTP Inlet	0833WW001A1203A207	03/12/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.01	17	0.08	<0.1	1.9	33	<10
Ballyragget WWTP Inlet	0833WW001A1208A207	08/12/2008	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	4.2	<0.05	88	0.12	0.8	20.9	30	<10
Ballyragget WWTP Inlet	0833WW001A1215A207	15/12/2008	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	0.5	<0.05	44	0.08	<0.1	2.6	108	<10
Ballyragget WWTP Outlet	0833WW002A1111A207	11/11/2008	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	0.6	<0.02	17	<0.02	<0.1	<1	16	<10
Ballyragget WWTP Outlet	0833WW002A1119A207	19/11/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.3	<0.01	50	<0.02	0.1	7.4	14	<10
Ballyragget WWTP Outlet	0833WW002A1125A207	25/11/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.4	<0.01	66	0.05	<0.1	<1	15	<10
Ballyragget WWTP Outlet	0833WW002A1203A207	03/12/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.3	<0.01	17	0.09	<0.1	1.3	9	<10
Ballyragget WWTP Outlet	0833WW002A1208A207	08/12/2008	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	4.6	<0.02	128	0.14	0.4	11.5	7	<10
Ballyragget WWTP Outlet	0833WW002A1215A207	15/12/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.01	80	0.09	0.2	6.0	216	<10
Ballyragget WWTP Upstream	0833WW003A1111A207	11/11/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.01	165	<0.02	<0.1	<1	<3	<10
Ballyragget WWTP Upstream	0833WW003A1119A207	19/11/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.01	181	<0.02	<0.1	<1	<3	<10
Ballyragget WWTP Upstream	0833WW003A1125A207	25/11/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.01	179	<0.02	<0.1	<1	<3	<10
Ballyragget WWTP Upstream	0833WW003A1203A207	03/12/2008	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	0.7	<0.02	203	<0.02	<0.1	<1	<3	<10
Ballyragget WWTP Upstream	0833WW003A1208A207	08/12/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.01	173	<0.2	<0.1	<1	3	<10
Ballyragget WWTP Upstream	0833WW003A1215A207	15/12/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.01	153	<0.02	<0.1	<1	7	<10
Ballyragget WWTP Downstream	0833WW004A1111A207	11/11/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.01	161	<0.02	<0.1	<1	<3	<10
Ballyragget WWTP Downstream	0833WW004A1119A207	19/11/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.01	198	<0.02	<0.1	<1	<3	<10
Ballyragget WWTP Downstream	0833WW004A1125A207	25/11/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.01	181	<0.02	<0.1	<1	<3	<10
Ballyragget WWTP Downstream	0833WW004A1203A207	03/12/2008	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	0.5	<0.02	227	<0.02	<0.1	<1	<3	<10
Ballyragget WWTP Downstream	0833WW004A1208A207	08/12/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.01	169	<0.2	<0.1	<1	<3	<10
Ballyragget WWTP Downstream	0833WW004A1215A207	15/12/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.01	156	<0.02	<0.1	<1	<3	<10

**Table: KK-WWDL-207-E.4.1.2 Ballyragget WWTP - Dangerous Substances Monitoring (Contd.)**

EntityName	SampleLabCode	SampleDate	Dichloromethane ug/l	Fluoride mg/l	Lead ug/l	Mercury ug/l	Nickel ug/l	o-xylene ug/l	Pentachlorophenol ug/l	Phenols ug/l	Phenols Total ug/l	pm xylene ug/l	Selenium ug/l	Simazine ug/l	Toluene ug/l	Tributyl Tin ug/l	Zinc ug/l	Total Hardness mg/l
Ballyragget WWTP Inlet	0833WW001A1111A207	11/11/2008	<5	<0.1	6.3	<0.02	0.8	<0.1	<2.5	<2.5	<2.5	<0.1	<0.2	<0.05	<0.1	<0.02	79	
Ballyragget WWTP Inlet	0833WW001A1119A207	19/11/2008	<5	<0.1	7.8	<0.02	12.2	<0.2	<2.5	<2.5	<2.5	<0.1	1.9	<0.05	<0.1	<0.02	145	
Ballyragget WWTP Inlet	0833WW001A1125A207	25/11/2008	<5	<0.1	0.4	<0.02	2.4	<0.1	<2.5	<2.5	<2.5	<0.1	<0.2	<0.05	<0.1	<0.02	31	
Ballyragget WWTP Inlet	0833WW001A1203A207	03/12/2008	<5	<0.1	0.3	<0.02	2	<0.1	<0.5	<0.5	<0.5	<0.1	<0.2	<0.01	<0.1	<0.02	28	
Ballyragget WWTP Inlet	0833WW001A1208A207	08/12/2008	<5	<0.1	<0.3	<0.02	10.6	<0.1	<2.5	<2.5	<2.5	<0.1	3.4	<0.05	0.9	<0.02	18	
Ballyragget WWTP Inlet	0833WW001A1215A207	15/12/2008	<5	<0.1	5.3	<0.02	2.9	<0.1	<2.5	<2.5	<2.5	<0.1	0.2	<0.05	<0.1	<0.02	68	
Ballyragget WWTP Outlet	0833WW002A1111A207	11/11/2008	<5	<0.1	1.0	<0.02	0.7	<0.1	<1.2	<1.2	<1.2	<0.1	<0.2	<0.02	<0.1	<0.02	18	
Ballyragget WWTP Outlet	0833WW002A1119A207	19/11/2008	<5	<0.1	1.1	<0.02	7.5	<0.2	<0.5	<0.5	<0.5	<0.1	<0.2	<0.01	<0.1	<0.02	17	
Ballyragget WWTP Outlet	0833WW002A1125A207	25/11/2008	<5	<0.1	0.4	<0.02	2.2	<0.1	<0.5	<0.5	<0.5	<0.1	<0.2	<0.01	<0.1	<0.02	16	
Ballyragget WWTP Outlet	0833WW002A1203A207	03/12/2008	<5	<0.1	0.3	<0.02	1.8	<0.1	<0.5	<0.5	<0.5	<0.1	<0.2	<0.01	<0.1	<0.02	20	
Ballyragget WWTP Outlet	0833WW002A1208A207	08/12/2008	<5	<0.1	<0.3	<0.02	7.1	<0.1	<1.2	<1.2	<1.2	<0.1	0.6	<0.02	<0.1	<0.02	1	
Ballyragget WWTP Outlet	0833WW002A1215A207	15/12/2008	<5	<0.1	17.9	<0.02	5	<0.1	<0.5	<0.5	<0.5	<0.1	0.9	<0.01	<0.1	<0.02	119	
Ballyragget WWTP Upstream	0833WW003A1111A207	11/11/2008	10.8	<0.1	<0.3	<0.02	1.7	<0.1	<0.5	<0.5	<0.5	<0.1	0.3	<0.01	<0.1	<0.02	4	298
Ballyragget WWTP Upstream	0833WW003A1119A207	19/11/2008	<5	<0.1	<0.3	<0.02	2.2	<0.2	<0.5	<0.5	<0.5	<0.1	0.7	<0.01	<0.1	<0.02	5	291
Ballyragget WWTP Upstream	0833WW003A1125A207	25/11/2008	<5	<0.1	<0.3	<0.02	2.6	<0.1	<0.5	<0.5	<0.5	<0.1	0.2	<0.01	<0.1	<0.02	6	407
Ballyragget WWTP Upstream	0833WW003A1203A207	03/12/2008	<5	<0.1	<0.3	<0.02	3.4	<0.1	<0.8	<0.8	<0.8	<0.1	<0.2	<0.02	<0.1	<0.02	3	380
Ballyragget WWTP Upstream	0833WW003A1208A207	08/12/2008	<5	<0.1	<0.3	<0.02	7.9	<0.1	<0.5	<0.5	<0.5	<0.1	0.5	<0.01	<0.1	<0.02	<1	363
Ballyragget WWTP Upstream	0833WW003A1215A207	15/12/2008	<5	<0.1	0.3	<0.02	2.1	<0.1	<0.5	<0.5	<0.5	<0.1	0.8	<0.01	<0.1	<0.02	19	278
Ballyragget WWTP Downstream	0833WW004A1111A207	11/11/2008	16.5	<0.1	<0.3	<0.02	1.7	<0.1	<0.5	<0.5	<0.5	<0.1	0.2	<0.01	<0.1	<0.02	3	288
Ballyragget WWTP Downstream	0833WW004A1119A207	19/11/2008	<5	<0.1	<0.3	<0.02	2.7	<0.2	<0.5	<0.5	<0.5	<0.1	1.1	<0.01	<0.1	<0.1	9	300
Ballyragget WWTP Downstream	0833WW004A1125A207	25/11/2008	<5	<0.1	<0.3	<0.02	2.5	<0.1	<0.5	<0.5	<0.5	<0.1	0.4	<0.01	<0.1	<0.02	4	391
Ballyragget WWTP Downstream	0833WW004A1203A207	03/12/2008	<5	<0.1	<0.3	<0.02	3.7	<0.1	<0.8	<0.8	<0.8	<0.1	<0.2	<0.02	<0.1	<0.02	11	389
Ballyragget WWTP Downstream	0833WW004A1208A207	08/12/2008	<5	<0.1	<0.3	<0.02	2	<0.1	<0.5	<0.5	<0.5	<0.1	0.4	<0.01	<0.1	<0.02	<1	335
Ballyragget WWTP Downstream	0833WW004A1215A207	15/12/2008	<5	<0.1	<0.3	<0.02	1.7	<0.1	<0.5	<0.5	<0.5	<0.1	0.7	<0.01	<0.1	<0.02	<1	295

## **Section F Attachments**

### **Existing Environment & Impact of the Discharge(s)**

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## **Section F**

Kilkenny County Council recognizes the value and strategic importance of this work and has engaged respected expert in this field Mr. Pascal Sweeney to assist. Mr. Sweeney presently is completing a desktop exercise using appropriate “boundaries” (in accordance with agreed approach discussed above) to determine in line with Circ L8/08 which of all schemes under the License Programme (14 in all - both previous schemes and those yet to be submitted) will require an appropriate assessment. Thereafter Mr. Sweeney will be delivering said assessments in conjunction with Kilkenny County Council Water Quality Team by May 29th 2009 and I respectfully suggest this to be an efficient, effective, value for money and importantly a coordinated big picture approach to this strategic issue. It is logical that this work would be conducted in conjunction with requirements of Section G also.

**This section will be with the agency on 29<sup>th</sup> May 2009.**

Kilkenny County Council & EPA Correspondence attached

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**From:** Brian Meaney [mailto:B.Meaney@epa.ie]  
**Sent:** 23 February 2009 16:08  
**To:** Michael Arthurs  
**Cc:** Jonathan Derham; Karen Creed  
**Subject:** RE: WS - Water Quality - Discharge License Programme - Section F and G of License Applications

Michael, The delayed supply of sections F & G is fine. Please state clearly in your applications due on Friday when the data for these sections will be supplied.

Brian.

---

**From:** Michael Arthurs [mailto:michael.arthurs@kilkennycoco.ie]  
**Sent:** 23 February 2009 12:05  
**To:** Brian Meaney; Jonathan Derham; Karen Creed  
**Subject:** WS - Water Quality - Discharge License Programme - Section F and G of License Applications

Mr. Meaney,  
Good morning, my name is Michael Arthurs, Senior Executive Officer of Water Services with Kilkenny County Council. I lead the Water Quality Team charged with responsibility for delivering the Discharge License Application Programme. I was given your contact details by Dr. Jonathan Derham who has advised me that you will be taking over from him administering the applications for Kilkenny County Council.

A productive meeting was held between Kilkenny County Council and EPA on 30<sup>th</sup> Jan 2009 regarding progress of the Discharge License Application Programme for Kilkenny County Council and specifically addressed a number of matters in regards to the preparation of applications.  
One strategic issue listed was in regards to the provisions of Section F and G and in particular the correct approach to the appropriate assessment requirement. The Kilkenny County Council Team were grateful for the pragmatic approach tabled and Ms Creed can advise you in more detail if required of the agreement reached.

In this respect I have today recontacted Ms Creed and Mr Derham in regards to progress being made and to confirm that the 6 applications due for Feb 28<sup>th</sup> under Band 3 will not have completed Sections F and G. Kilkenny County Council recognizes the value and strategic importance of this work and has engaged respected expert in this field Mr. Pascal Sweeney to assist. Mr. Sweeney presently is completing a desktop exercise using appropriate "boundaries" (in accordance with agreed approach discussed above) to determine in line with Circ L8/08 which of all schemes under the License Programme (14 in all - both previous schemes and those yet to be submitted) will require an appropriate assessment. Thereafter Mr. Sweeney will be delivering said assessments in conjunction with Kilkenny County Council Water Quality Team by May 29<sup>th</sup> 2009 and I respectfully suggest this to be an efficient, effective, value for money and importantly a coordinated big picture approach to this strategic issue. It is logical that this work would be conducted in conjunction with requirements of Section G also.

Should you require any clarification on this matter please advise.

Regards

**Michael Arthurs**  
**Water Services Department**  
**Tel: 056-7794186**  
**Fax: 056-7794080**

## **Section G Attachments**

### **Programmes of Improvements**

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## **Section G**

Kilkenny County Council recognizes the value and strategic importance of this work and has engaged respected expert in this field Mr. Pascal Sweeney to assist. Mr. Sweeney presently is completing a desktop exercise using appropriate “boundaries” (in accordance with agreed approach discussed above) to determine in line with Circ L8/08 which of all schemes under the License Programme (14 in all - both previous schemes and those yet to be submitted) will require an appropriate assessment. Thereafter Mr. Sweeney will be delivering said assessments in conjunction with Kilkenny County Council Water Quality Team by May 29th 2009 and I respectfully suggest this to be an efficient, effective, value for money and importantly a coordinated big picture approach to this strategic issue. It is logical that this work would be conducted in conjunction with requirements of Section G also.

**This section will be with the agency on 29<sup>th</sup> May 2009.**

Kilkenny County Council & EPA Correspondence attached

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**From:** Brian Meaney [mailto:B.Meaney@epa.ie]  
**Sent:** 23 February 2009 16:08  
**To:** Michael Arthurs  
**Cc:** Jonathan Derham; Karen Creed  
**Subject:** RE: WS - Water Quality - Discharge License Programme - Section F and G of License Applications

Michael, The delayed supply of sections F & G is fine. Please state clearly in your applications due on Friday when the data for these sections will be supplied.

Brian.

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**From:** Michael Arthurs [mailto:michael.arthurs@kilkennycoco.ie]  
**Sent:** 23 February 2009 12:05  
**To:** Brian Meaney; Jonathan Derham; Karen Creed  
**Subject:** WS - Water Quality - Discharge License Programme - Section F and G of License Applications

Mr. Meaney,

Good morning, my name is Michael Arthurs, Senior Executive Officer of Water Services with Kilkenny County Council. I lead the Water Quality Team charged with responsibility for delivering the Discharge License Application Programme. I was given your contact details by Dr. Jonathan Derham who has advised me that you will be taking over from him administering the applications for Kilkenny County Council.

A productive meeting was held between Kilkenny County Council and EPA on 30<sup>th</sup> Jan 2009 regarding progress of the Discharge License Application Programme for Kilkenny County Council and specifically addressed a number of matters in regards to the preparation of applications.

One strategic issue listed was in regards to the provisions of Section F and G and in particular the correct approach to the appropriate assessment requirement. The Kilkenny County Council Team were grateful for the pragmatic approach tabled and Ms Creed can advise you in more detail if required of the agreement reached.

In this respect I have today recontacted Ms Creed and Mr Derham in regards to progress being made and to confirm that the 6 applications due for Feb 28<sup>th</sup> under Band 3 will not have completed Sections F and G. Kilkenny County Council recognizes the value and strategic importance of this work and has engaged respected expert in this field Mr. Pascal Sweeney to assist. Mr. Sweeney presently is completing a desktop exercise using appropriate "boundaries" (in accordance with agreed approach discussed above) to determine in line with Circ L8/08 which of all schemes under the License Programme (14 in all - both previous schemes and those yet to be submitted) will require an appropriate assessment. Thereafter Mr. Sweeney will be delivering said assessments in conjunction with Kilkenny County Council Water Quality Team by May 29<sup>th</sup> 2009 and I respectfully suggest this to be an efficient, effective, value for money and importantly a coordinated big picture approach to this strategic issue. It is logical that this work would be conducted in conjunction with requirements of Section G also.

Should you require any clarification on this matter please advise.

Regards

**Michael Arthurs**  
**Water Services Department**

**Tel:** 056-7794186  
**Fax:** 056-7794080