

COMHAIRLE CHONTAE FHINE GALL

Fingal County Council

DANGEROUS SUBSTANCES REGULATIONS

2nd Implementation Report

JULY 2006



Fingal County Council

Comhairle Contae Fhine Gall

WATER SERVICES DEPARTMENT

FINGAL COUNTY COUNCIL

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EXECUTIVE SUMMARY

Fingal County Council (FCC) established a monitoring programme under S.I. No 12 of 2001, Water Quality (Dangerous Substances) Regulations in 2001. Under the current monitoring programme 13 rivers are sampled at 25 monitoring points on a quarterly basis and 3 estuaries are sampled at 20 monitoring points biannually.

Section 1 of this report provides an overview of current water quality in relation to Dangerous Substances and outlines Fingal County Council's progress in maintaining compliance with the Regulations. In the current reporting period water quality was found to be satisfactory at 13 of the river sampling points. However a number of periodic exceedences were encountered in the rivers and estuaries in the current reporting period. FCC's response to these incidents is also outlined.

FCC has identified potential pressures in relation to Dangerous Substances and these are outlined in Section 2. Municipal Wastewater Treatment Plants at Swords and Malahide have been upgraded under the S.I No 254/2001 Urban Wastewater Treatment Regulations to include tertiary treatment. Smaller Rural Treatment Plants are in the process of being upgraded and will include nutrient removal in the final stages. The Water Pollution Control Section liase closely with the Drainage Section in relation to the quality of effluent discharges. The Water Pollution Control Section have established a 'flagging system' with the Central Laboratory, DCC whereby FCC are notified of an exceedences in Trade Effluent Discharge Licence limits and are then able to issue the licensed company with letters requiring them to bring their practices in line with our requirements. Periodically elevated concentrations of atrazine are encountered on the Ward river. FCC is currently liasing with Teagasc and the E.P.A on the matter.

Section 3 provides details relating to Implementation of Measures. Some measures, for example, Farms Survey and Onsite Treatment System Surveys, listed in the Measures Report have been reviewed as limited resources within the Section were hindering progress. FCC is considering outsourcing these surveys and are liasing with other Local Authorities, Teagasc, the Irish Farmers Association (IFA) and the Department of Agriculture and Food (DAF) on the matter.

Section 4 provides an overview of Progress to Date in relation to Implementation of Measures and outlines problems encountered by FCC. The Water Pollution Control Section have adopted an Environmental Management System approach to implementation of the Dangerous Substances Regulations and continually review and update the Implementation Programme wherever necessary.

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1.0 CURRENT WATER QUALITY STATUS AND TARGETS

The Baseline Condition was measured at 45 stations on 13 rivers and 3 estuaries. Under the established Dangerous Substances Monitoring Programme, FCC have continued to take quarterly samples at 25 sampling stations on the 13 riverbodies as per the baseline survey. Analysis of the samples is carried out by the Central Laboratory, Dublin City Council. In addition 20 sampling stations on the 3 estuarine waterbodies are monitored biannually. Analysis of these samples is carried out by an independent laboratory.

The tables contained in Appendix B provide detailed analysis results for the various parameters monitored under the Dangerous Substances Regulations. The average result is calculated for each year of the reporting period and shown separately as follows:

Year one: 1st August 04 – 31st July 05
Year two: 1st August 05 – 31st July 06

The tables are set out for each monitoring station on the rivers and estuaries included in this programme.

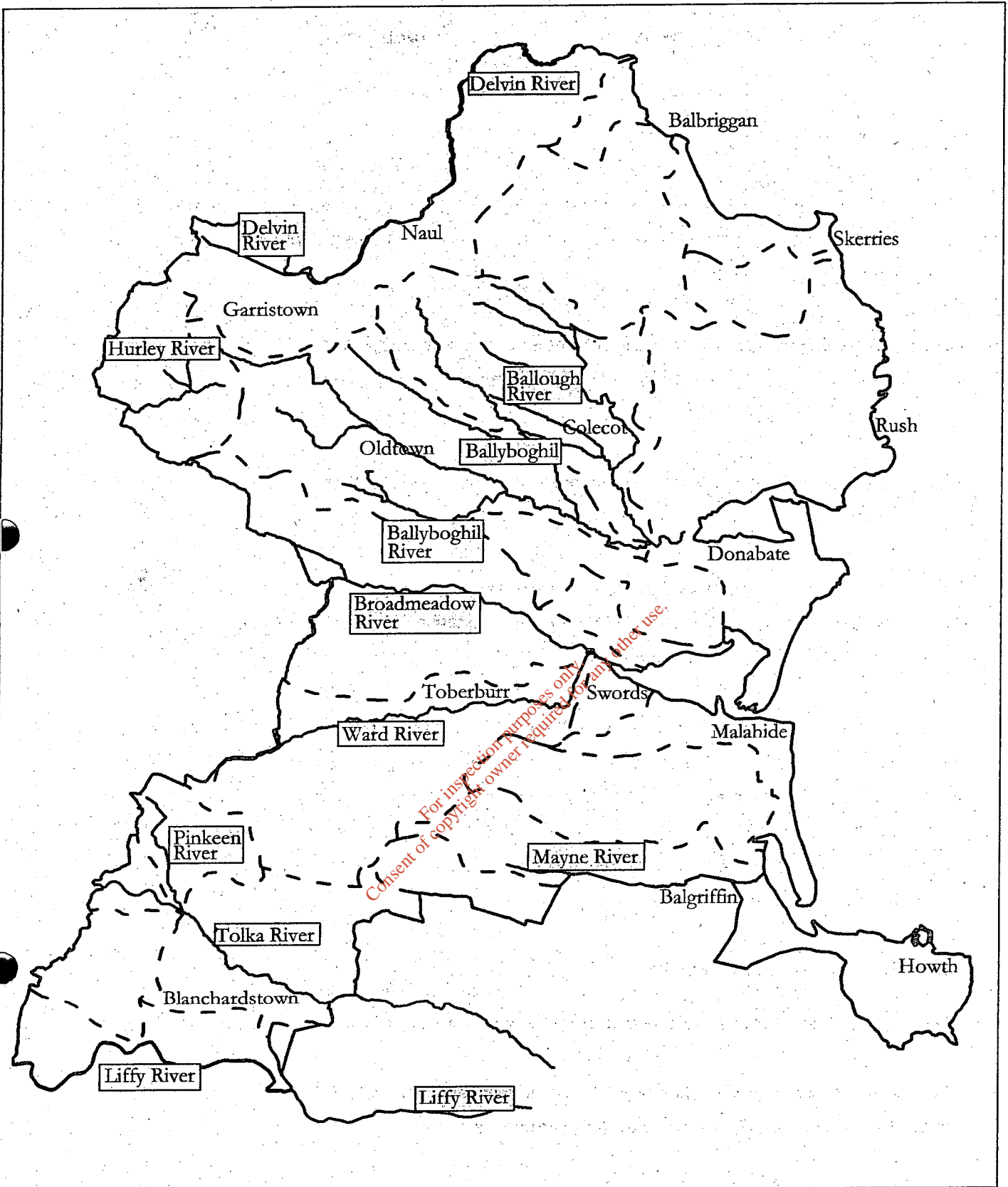
1.1 Delvin River Catchment 08/D/01

The Delvin River forms part of the border between the Fingal County Council and Meath County Council jurisdictions in the North of the County. The catchment area of the Delvin River is divided between Fingal County Council and Meath County Council. The southern catchment is located in Fingal.

The main pressures on water quality are from agricultural runoff; three municipal treatment works at Garristown, Naul and Stamullen (Meath County Council) and onsite treatment systems.

There are three monitoring points on the Delvin: Station 0080 - Bridge West of Naul, station 0250 - Bridge NW of Forty Acres and station 0400 - Bridge at Bridgefort House.

In the current reporting period water quality in respect of the parameters listed in the Dangerous Substances Regulations was found to be satisfactory at the three monitoring points. No sample result exceeded the limits set out in the regulations.



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Legend:

- River
- Catchment Boundary
- Fingal County Council Boundary

1.2 Ballough River Catchment 08/B/03

The Ballough River catchment is located entirely within the FCC area. There are no urban centres within the catchment. The Ballough River discharges to the Irish Sea at the Rogerstown Estuary located in North County Dublin.

The main pressures on water quality in the catchment are from agricultural runoff, a municipal wastewater treatment plant at Colecot, onsite treatment systems and two premises operating with a Trade Effluent Discharge Licence to waters.

There are two monitoring points on the Ballough: Station 1400 - Bridge W of Five Roads and station 1600 - Corduff Bridge.

In the current reporting period water quality in respect of the parameters listed in the Dangerous Substances Regulations was found to be satisfactory at station 1600, Corduff Bridge. No sample result exceeded the limits set out in the regulations.

One exceedence was noted on the Ballough at station 1400, Bridge W of Five Roads. On 8/11/05. Copper was elevated at 93 µg/l, this is in exceedence of the limit of 30 µg/l set out in the Regulations. An investigation into the source of the pollution yielded no result however no exceedence in copper concentrations at this point has been noted in the ensuing monitoring period. The overall average figures for each of the parameters listed in the Regulations at the above stations, as indicated in Appendix B, are within the limits of the Regulations.

1.3 Ballyboghil River Catchment 08/B/01

The Ballyboghil River catchment is located entirely within the FCC area.

The main pressures on water quality are from agricultural runoff; two municipal wastewater treatment works at Oldtown and Ballyboghil and onsite treatment systems.

There are two monitoring points on the Ballyboghil: Station 1900 - Bridge S of Trallie Lodge and station 2200 - Bridge in Ballyboghil.

In the current reporting period water quality in respect of the parameters listed in the Dangerous Substances Regulations was found to be satisfactory at the two monitoring points. No sample result exceeded the limits set out in the regulations.

1.4 Broadmeadow River Catchment 08/B/02

The Broadmeadow River crosses the border with MCC and flows in an easterly direction entering the Irish Sea at the Broadmeadow Estuary at Swords, Co. Dublin downstream of the confluence with the Ward River.

The main pressures on water quality are from agricultural runoff, onsite treatment systems, run-off from construction sites and from the municipal wastewater treatment plant at Rolestown, Co. Dublin. In addition the Broadmeadow flows adjacent to the urban centre of Swords, Co. Dublin.

There are three monitoring points on the Broadmeadow: Station 0600 - WSW of Fieldstown House, station 0700 - Lispopple Bridge and station 0800 - Newtown Bridge.

In the current reporting period water quality in respect of the parameters listed in the Dangerous Substances Regulations was found to be satisfactory at station 0700 Lispopple Bridge. No sample result exceeded the limits set out in the regulations.

Two exceedences were noted in the current reporting period:

On 03/05/2005 at station 0600 WSW of Fieldstown House and station 0800 Newtown Bridge, lead concentrations were elevated at 13 $\mu\text{g}/\text{l}$, this is in exceedence of the limit of 10 $\mu\text{g}/\text{l}$ set out in the regulations. No exceedence has been encountered in respect of lead at these locations in the ensuing monitoring period.

On 1/11/2005 at station 0800 Newtown Bridge, elevated concentrations of nickel were observed, 102 $\mu\text{g}/\text{l}$, this in exceedence of the limit of 50 $\mu\text{g}/\text{l}$ set out in the regulations. No exceedence has been encountered in respect of lead at these locations in the ensuing monitoring period. The overall average figures for each of the parameters listed in the Regulations at the above stations, as indicated in Appendix B, are within the limits of the Regulations.

1.5 Ward River Catchment 08/W/01

The Ward River crosses the FCC and MCC border and flows in an easterly direction entering the Irish Sea at the Broadmeadow Estuary, Swords Co. Dublin downstream of the confluence with the Broadmeadow River.

The main pressures on water quality are from agricultural runoff, onsite treatment systems, urban stormwater overflows and misconnections to the surface water system at Swords.

There are three monitoring points on the Ward: Station 0070- Coolrath Bridge, station 0300 -Bridge at Killeek and station 0610 - Scotchstone Bridge.

One exceedence was noted in the current reporting period:

On 16/5/06 at the three monitoring points on the Ward. Atrazine was elevated 5.7 µg/l at station 0070- Coolrath Bridge, 2.37 µg/l at station 0300 -Bridge at Killeek and 1.27 µg/l at station 0610 - Scotchstone Bridge, this is in exceedence of the limit of 1µg/l set out in the regulations. No other exceedences were noted in relation to atrazine in the current reporting period. The overall average figure for the above stations as contained in this report is within the limits of the Regulations. The overall average figures for each of the parameters listed in the Regulations at the above stations, as indicated in Appendix B, are within the limits of the Regulations.

FCC are liaising closely with Teagasc and Meath County Council (MCC) in relation to this matter as elevated concentrations of atrazine were also observed on the Ward during the baseline survey.

1.6 Mayne River Catchment 09/M/03

The Mayne River forms part of the border with DCC and flows in an easterly direction entering the Irish Sea at Moyne Bridge on the Baldoyle Estuary.

The main pressures on water quality are from agricultural runoff, run-off from construction sites, stormwater overflows and misconnections to the surface water system.

There is one monitoring point on the Mayne: Station 0500; Hole in the Wall Road Bridge.

In the current reporting period water quality in respect of the parameters listed in the Dangerous Substances Regulations was found to be satisfactory at the monitoring point on the Mayne. No sample result exceeded the limits set out in the regulations.

1.7 Pinkeen River Catchment 09/P/02

The Pinkeen River catchment is located entirely within the FCC area. The main pressures are from agricultural activities and onsite treatment systems.

There is one monitoring point on the Pinkeen: Station 0700 - Bridge SE of Powerstown House.

One exceedence was noted in the current reporting period:

On 24/5/05 at station 0700, Bridge SE of Powerstown House on the Pinkeen, elevated zinc concentrations of 207 µg/l were observed, this is in exceedence of the limit of 100 µg/l set out in the regulations. No exceedence has been encountered in respect of zinc at these locations in the ensuing monitoring period. Due to the low flow in the Pinkeen in May and on advice of the Central Laboratory, Dublin City Council an explanation for this exceedence may be the presence of sediment in the sample as a result of the sampling method. FCC are monitoring the situation closely. The overall average figures for each of the parameters listed in the Regulations at the above stations, as indicated in Appendix B, are within the limits of the Regulations.

1.8 Tolka River Catchment 09/T/01

The Tolka River flows from Meath, through Fingal to Dublin City entering at Ratoath Rd. It enters Dublin Bay at North Strand, Dublin.

The main pressures on water quality are from agricultural runoff, urban stormwater overflows and misconnections to the surface water system. The river flows through densely populated areas of Mulhuddart, Blanchardstown and Castleknock with input from Clonee and Dunboyne in County Meath.

There are two monitoring points on the Tolka: Station 0800 - Mulhuddart Bridge and station 1000 - Abbotstown Bridge.

In the current reporting period water quality in respect of the parameters listed in the Dangerous Substances Regulations was found to be satisfactory at the two monitoring points on the Tolka. No sample result exceeded the limits set out in the regulations in the ensuing monitoring period.

1.9 Hurley River Catchment 08/H/01

The Hurley is located in the north of the County and flows from the FCC area into MCC's jurisdiction. The Hurley forms part of the Nanny River catchment, which enters the Irish Sea at Julianstown, Co. Meath.

There is one monitoring point on the Hurley: Station 0060 - Bridge S of Borranstown House.

One exceedence was noted in the current reporting period:

On 1/11/05 at Station 0060, Bridge S of Borranstown House, zinc concentrations of 473 $\mu\text{g/l}$ were observed this is exceedence of the limit of 100 $\mu\text{g/l}$ set out in the regulations. No exceedence has been encountered in respect of zinc at this location in the ensuing monitoring period. Due to the low flow in the Hurley in May and on advice of the Central Laboratory, Dublin City Council an explanation for this exceedence may be the presence of sediment in the sample as a result of the sampling method. FCC are monitoring the situation closely.

1.10 Mill Stream Catchment

The Mill stream is located in North County Dublin. It flows in an easterly direction before entering the Irish Sea at Skerries, Co. Dublin. The Mill stream flows through a largely rural area before entering the urban centre of Skerries. FCC's monitoring points on the Mill Stream are upstream of Skerries town.

There are two monitoring points on the Mill Stream, Baldongan Bridge and Railway Bridge.

In the current reporting period water quality in respect of the parameters listed in the Dangerous Substances Regulations was found to be satisfactory at Railway Bridge. No sample result exceeded the limits set out in the regulations in the ensuing monitoring period.

One exceedence was noted in the current reporting period:

On 17/5/06 at Baldongan Bridge on the Mill Stream, Atrazine was elevated 1.23 $\mu\text{g/l}$. This is in exceedence of the limit of 1 $\mu\text{g/l}$ set out in the regulations. No other exceedences were noted in relation to atrazine in

the current reporting period. The overall average figures for each of the parameters listed in the Regulations at the above stations, as indicated in Appendix B, are within the limits of the Regulations.

FCC are liaising closely with Teagasc and in relation to this matter.

1.11 Gaybrook Stream Catchment

The Gaybrook Stream rises at Nevinstown to the south of Swords, Co. Dublin. It flows in an easterly direction through an industrial park and a housing development at Feltrim, Swords, Co. Dublin. It enters the Broadmeadow estuary at Malahide, Co. Dublin.

There is one monitoring point on the Gaybrook Stream at Swords Road, Malahide, Co. Dublin. There is a housing development immediately upstream of the sampling point.

One exceedence was noted in the current reporting period:

On 11/05/05 at Swords Road, Zinc concentrations of 343 µg/l were observed. This is in exceedence of the limit of 100 µg/l set out in the regulations. No exceedence has been encountered in respect of zinc at this location in the ensuing monitoring period. Due to the low flow in the Gaybrook Stream in May and on advice of the Central Laboratory, Dublin City Council an explanation for this exceedence may be the presence of sediment in the sample as a result of the sampling method. FCC are monitoring the situation closely. No other exceedences were noted in relation to zinc in the current reporting period. The overall average figures for each of the parameters listed in the Regulations at the above stations, as indicated in Appendix B, are within the limits of the Regulations.

1.12 Sluice River Catchment

The Sluice river rises to the north of Dublin Airport and flows in an easterly direction to enter the Irish Sea at Portmarnock, Co. Dublin. The Sluice river flows through a largely rural area.

There are two monitoring points on the Sluice River, Forrest Little Bridge and the Gauging Station at Portmarnock.

In the current reporting period water quality in respect of the parameters listed in the Dangerous Substances Regulations was found to be satisfactory at Forrest Little Bridge. No sample result exceeded the limits set out in the regulations in the ensuing monitoring period.

One exceedence was noted in the current reporting period:

On 25/05/05 at the Gauging Station, elevated zinc concentrations of 361 $\mu\text{g/l}$ were observed. This is in exceedence of the limit of 100 $\mu\text{g/l}$ set out in the regulations. No exceedence has been encountered in respect of zinc at this location in the ensuing monitoring period. Due to the low flow in the Sluice River in May and on advice of the Central Laboratory, Dublin City Council an explanation for this exceedence may be the presence of sediment in the sample as a result of the sampling method. FCC are monitoring the situation closely. The overall average figures for each of the parameters listed in the Regulations at the above stations, as indicated in Appendix B, are within the limits of the Regulations.

1.13 Santry River Catchment 09/S/01

The Santry river rises to the southwest of Dublin Airport. It flows in an easterly direction through the urban areas of Santry, Coolock and Raheny. There are commercial influences in the form of Airways Industrial Estate at Santry and the Clonshaugh Industrial Estate at Coolock. It enters North Dublin Bay at Raheny, Dublin 5. The Santry river flows from the FCC functional area into the functional area of Dublin City Council (DCC).

There are two monitoring points on the Santry River at Ballymun Road Bridge and D/S of Airways Industrial Estate.

In the current reporting period water quality in respect of the parameters listed in the Dangerous Substances Regulations was found to be satisfactory at Ballymun Road Bridge. No sample result exceeded the limits set out in the regulations in the ensuing monitoring period.

One exceedence was noted in the current reporting period:

On 29/11/05 Santry D/S of Airways Industrial Estate, copper was elevated at 52 $\mu\text{g/l}$. This is in exceedence of the limit of 30 $\mu\text{g/l}$ set out in the Regulations. FCC Drainage Section, Water Services Department operate a pump station upstream of Airways Industrial Estate. FCC, Water Pollution Control Section are liaising closely with the Drainage Section on this matter. No exceedence in copper concentrations at this

point has been noted in the ensuing monitoring period. The overall average figures for each of the parameters listed in the Regulations at the above stations, as indicated in Appendix B, are within the limits of the Regulations.

1.14 Rogerstown Estuary Catchment

The Rogerstown estuary is located in North County Dublin adjacent to the urban centres of Rush and Lusk.

There are five sampling points on the Rogerstown estuary.

Exceedences in relation to concentrations of copper, chromium and dichloromethane were observed on one occasion at Rogerstown estuary. On 18/02/05 elevated levels of copper, chromium and dichloromethane were measured at the five stations on the Rogerstown estuary. The Water Pollution Control Section are investigating the matter. The overall average figures for each of the parameters listed in the Regulations at the above stations, as indicated in Appendix B, are within the limits of the Regulations.

1.15 Broadmeadow Estuary Catchment

The Broadmeadow estuary located in North County Dublin adjacent to the urban centres of Swords and Malahide.

There are 12 sampling points on the Broadmeadow estuary.

On two occasions 11/11/2005 and 16/05/06, exceedences in concentrations of copper and arsenic were observed at 8 stations within the Broadmeadow estuary, Stations 35-42. On 16/05/06, lead concentrations were also elevated at station 35 on the Broadmeadow estuary. Elevated levels of dichloromethane were observed on two occasions on the 24/3/05 and 11/11/05 at stations 36 and 42. The overall average figures for each of the parameters listed in the Regulations at the above stations, as indicated in Appendix B, are within the limits of the Regulations.

These stations are located downstream of the Swords Wastewater Treatment Plant operated by FCC and also downstream of the Industrial Estate. FCC are liaising closely with the Drainage Section, Water Services Department, FCC in relation to the matter and are also due to carry out a survey of the Industrial Estate.

1.16 Baldoyle Estuary Catchment

There are three sampling points on the Baldoyle estuary.

On one occasion 29/11/05 elevated levels of nickel were observed at station 45. This was 34 µg/l, above the limit set out in the regulations of 25 µg/l. No sample result exceeded the limits set out in the regulations in the ensuing monitoring period. FCC is monitoring the situation. The overall average figures for each of the parameters listed in the Regulations at the above stations, as indicated in Appendix B, are within the limits of the Regulations.

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2.0 IDENTIFICATION OF POTENTIAL PRESSURES

The baseline survey for the functional area of Fingal showed levels of the various substances at the vast majority of monitoring stations to be within the limits set out in the Dangerous Substances Regulations. The only exceptions to this were the values for atrazine on the Ward and the Pinkeen and the value for zinc at one station on the Broadmeadow estuary.

In the current reporting period water quality in respect of the parameters listed in the Dangerous Substances Regulations was found to be satisfactory at 13 of the river sampling points. A number of exceedences in concentrations of substances listed in the Dangerous Substances Regulations were encountered in the rivers and estuaries in the current reporting period as outlined in Section 1. These exceedences are investigated and monitored as appropriate.

2.1 Waste Water and Drinking Water Treatment Works

The only Drinking Water Treatment Works within Fingal, Leixlip Water Treatment Works abstracts water from the River Liffey. The Liffey is not monitored by Fingal County Council for the purposes of Dangerous Substances Regulations.

There are a number of waste water treatment plants within the functional area of Fingal County Council. Of these, Swords Wastewater Treatment plant is the only plant which has a significant industrial input, however this plant has recently been upgraded under the Urban Wastewater Treatment Regulations 2001 and includes tertiary treatment of the final effluent. All significant industries discharging to the Swords collection system are monitored by the local authority or the EPA to ensure compliance with their Trade Effluent Discharge Licences or IPPC licences. Where FCC encounter an exceedence in a Trade Effluent Discharge Licence a report is submitted to the E.P.A.

The smaller Treatment Work in rural Fingal are being upgraded to include nutrient removal and reduce pollution loading on riverbodies. A number of these contracts have already gone to tender for the Ballyboghil and Garristown plants. The Naul and Oldtown Treatment Plants are in the planning stages.

An investigation into the source of elevated levels of copper, arsenic and dichloromethane in the Braodmeadow estuary is currently underway.

2.2 Industrial and other Point Source Discharges

The most significant industrial discharges relevant to these regulations are the IPPC licensed discharges within the Swords Collection System and particularly Arch Chemicals and Swords Laboratories. Monitoring of these discharges is comprehensive and all exceedences are required to be reported to the E.P.A as well as being recorded within the Water Pollution database. The Water Pollution Control Section have established a 'flagging system' with the Central Laboratory, DCC whereby FCC are notified of an exceedences in licence limits and are then able to issue the licensed company with letters requiring them bring their practices in line with our requirements.

2.3 Urban Stormwater Overflows and Run-off

The run-off from roads and industrial areas provides the potential for pollution of the receiving waters. To combat this, efforts are being made to target specific risk areas and ensure that appropriate measures are put in place by way of bunding of fuel areas or the provision of oil and silt interceptors as appropriate. These issues are also considered when issuing discharge licences. FCC require establishments to comply with SEPA guidelines in relation to the bunding of oil tanks at the planning stages.

Various assessments of the existing network are underway such as the Greater Dublin Strategic Drainage Study (GDSDS). This study highlights various capacity constraints within the system and recommends measures to alleviate these constraints. Of primary concern to this report is the reduction of spills from combined system overflows. In this regard, some of the recommended works have been completed with further recommendations due to be implemented in due course.

2.4 Agricultural Run-off

One incidence of elevated Atrazine on the Ward was reported in May 2006. Each of the three stations on the Ward were affected by the elevated concentrations of atrazine on this occasion. It is suspected that the elevated levels of Atrazine recorded on the Ward and Pinkeen are attributable to agricultural run-off due to its use as a herbicide. As the Ward flows from the Fingal/Meath border towards Swords, Co. Dublin the levels of atrazine reduced at regular intervals. The Ward flows through a largely rural area upstream of Swords and agricultural land use in the area is largely tillage. Consultation with Teagasc revealed the application times of herbicides are spring time usually around April/May. FCC along with MCC are investigating the matter as atrazine is a banned substance.

2.5 Discharges From Farmyards

Fingal County Council established a Farms Survey Scheme in 2002 to carry out a comprehensive survey of farms in the county to ensure that all farms comply with the Code of Good Farming Practice. Where unacceptable practices are discovered, appropriate action is taken such as the issuing of Section 12 Notices.

To counter the diffuse pollution from agricultural land a proposal was made to enact Agricultural Byelaws to regulate the spreading of fertiliser on land and to implement Nutrient Management Plans where appropriate. Control and management of herbicides and pesticides will also be addressed. FCC have decided to delay the introduction of these byelaws on the advice of the Department of Agriculture and Food (DAF).

The DAF advised that the introduction of the Nitrates Regulations and subsequent Nitrates Action Programme may provide more stringent criteria for storage times and fertiliser application rates than criteria contained in the Agricultural byelaws FCC may introduce. FCC are liaising closely with Teagasc and the DAF in relation to the Nitrates Regulations. A review of progress in relation to water quality under the Nitrates Action Programme will be carried out and a final decision on whether to introduce byelaws made in due course. FCC are also liaising with Teagasc and the DAF in relation to Dangerous Substances from agricultural sources.

Farm Surveys and Septic Tank Surveys have not been carried out in due to lack of resources, 2006, Fingal County Council is investigating alternative methods of carrying out Farm Surveys and Septic Tank Surveys and are liaising with other Local Authorities. FCC are carrying out an Agricultural Review and are considering out-sourcing farm surveys and have commenced discussions with Wicklow County Council based on their own experience of out-sourcing, Meath County Council regarding cross border waterbodies, Teagasc, the IFA and other stakeholders.

2.6 Groundwater

A new groundwater source has being developed by Fingal County Council to provide additional water supply to the north of the county at Bog of the Ring, North County Dublin. This source is operational and is intended to be expanded in the near future. A Groundwater Protection Plan was prepared, in conjunction with the GSI, for the Bog of the Ring Aquifer. Based on this, the planning requirements for proposed works in this area have been increased depending on the location of the proposed development

2.7 Afforestation

There are no significant forests within the functional area of Fingal County Council.

2.8 Sources of Toxic Contaminants

Both Dunsink and Balleally Landfill sites are licensed by the EPA and are monitored as conditioned in the licences.

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3.0 IMPLEMENTATION OF MEASURES

To maintain progress towards the targets set out in the Measures Report, a programme of measures are being implemented on either a countywide or on a catchment basis. These measures are aimed at countering both the diffuse pollution, mainly from the agricultural sector and urban run-off, and the point source pollution including trade effluent discharges, UWWTW discharges and stormdrain overflows. An Implementation Programme Summary Table is included below and Catchment Implementation Programme Tables are included in Appendix C.

3.1 A comprehensive farms survey has commenced which will facilitate inspection of current farm practices and the imposing of conditions on farms with substandard practices. Issues addressed in this survey include consideration of the storage and use of various dangerous substances such as those used in herbicides. Limited resources have hindered progress in this area. FCC are carrying out an Agricultural Review and are considering out-sourcing farm surveys and have commenced discussions with Wicklow County Council based on their own experience of out-sourcing, Meath County Council regarding cross border waterbodies, Teagasc, the IFA and other stakeholders.

3.2 Existing discharge licences shall continue to be monitored and enforced and shall be reviewed where appropriate to include limits on those substances included in these regulations. A survey is also underway of various unlicensed discharges such as golf courses, nursing homes, pubs and guesthouses and discharge licences are issued as required.

3.3 A septic tank survey on a catchment basis commenced in 2002. Due to lack of resources this has not occurred in 2006 but will continue in 2007 possibly as part of the Farms Survey mentioned in Section 3.1.

3.4 Fingal County Council are participating in the ERBD Management Project and regularly attend information meetings held in relation to the ERBD. The Final Characterisation Report was published in September 2005.

3.5 The ERBD have agreed to prepare a river basin management plan for the Broadmeadow and Ward rivers.

3.6 FCC are implementing the ERBD Draft Monitoring Programme and will carry out monitoring as required under the National Surface and Groundwater Monitoring Programme proposed by the E.P.A from

December 2006. This includes monitoring 23 points under Operational Subnet 2 of the monitoring programme will be established by FCC from December 2006.

3.7 As the majority of rivers in Fingal traverse the county boundary, continued liaison with the adjoining local authorities is required for the proper management of these rivers. Quarterly meetings are held with Meath County Council regarding water quality and FCC are in contact with the Central Laboratory and the Drainage Department, DCC on a regular basis. Liaison with the various other stakeholders including Teagasc, IFA, Aer Rianta and the industrial sector is also essential to the proper management of the various waterways within the county.

Other measures required to improve the quality of rivers under these regulations include the upgrading of Urban Wastewater Treatment Works. A considerable amount of work has been completed to date including the upgrading of Swords and Malahide WWTW and the decommissioning of Balgriffen WWTW. The smaller TW's in rural Fingal are being upgraded to include nutrient removal and to reduce pollution loading on riverbodies. A number of these contracts have already gone to tender for the Ballyboghil and Garristown plants. The Naul and Oldtown Treatment Plants are in the planning stages. The Water Pollution Control Section will monitor the quality of effluent from the TW's following upgrading periodically while a routine monitoring programme will be put in place by the Senior Executive Engineer, Drainage.

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Table 3.1 Implementation Programme Summary Table: (FINGAL AS A WHOLE)

Standard to be achieved	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed within Timeframe (Y/N)?	If not, State Revised Timeframe
To improve unsatisfactory water quality and to maintain satisfactory water quality in the County as a whole	Implement <i>Sludge Management Plan</i> for Fingal County Council	To ensure compliance with relevant legislation and codes of good practice.	Implement quality control and quality systems in all relevant areas, from the initial generation of sludges and slurries to the re-use and disposal of any end product in accordance with Sludge Management Plan.	31/07/06	Senior Engineer Project Office.	Sludge Management gone for Public Consultation.		N	31/07/09
	Implement Water Framework Directive	Establishment of Catchment Management Group.	Participation in the Eastern River Basin District Management System.	Ongoing	Senior Engineer Design and Planning	Fingal County Council have been liaising with the project consultant for the ERBD and will be implementing the monitoring programme once finalised.		Ongoing	
	Issuing and enforcing discharge licences under the Water Pollution Acts.	Reduce dangerous substances inputs to waters.	Include limit condition in licence conditions for dangerous substances where relevant Enforcement monitoring of licences	Ongoing	Senior Exec. Engineer Pollution Control	Limit conditions included where relevant. Enforcement monitoring of licences ongoing. Exceedences substantially reduced.		Ongoing	
			Review older licences to include limits where appropriate	31/07/04	Senior Exec. Engineer Pollution Control	Review completed. No revisions necessary.		Completed within revised timeframe.	31/07/06
			Monitor heavy metals and organic pollutants identified in SI 148 of 1998 and in Table 1, Appendix 7 of the Code of Good Practice for the Use of Biosolids in Agriculture for all trade effluent discharging to sewers.	31/07/04	Senior Exec. Engineer Pollution Control	Monitoring ongoing.		Y	
	Wastewater Treatment Plants discharging to coastal and estuarine waters	Reduce dangerous substances inputs to coastal and estuarine waters.	Upgrade Swords and Malahide WWTP's.	31/07/04	Senior Engineer Project Office.	Upgrading works have been completed for both Malahide and Swords WWTP		Y	
			Provide WWTP's for Balbriggan, Skerries, Rush, Lusk, Donabate, Portrane agglomerations in accordance with the <i>Urban Wastewater Directive</i>	31/07/06	Senior Engineer Project Office.	Skerries/Balbriggan completed. Rush/Lusk/Donabate/Portrane at planning, due for completion 2009.		Y/N	31/07/09
			Redirect Howth, Sutton, Baldoye, Portmarnock effluent from the Howth outfall to Ringsend WWTP.	31/07/04	Dublin Bay Project Office.	Completed		N	31/07/06
	Farm surveys	Examine farm management and practices to reduce dangerous substances inputs to rivers	Carry out farm surveys on a catchment basis. Where necessary follow up with enforcement action under the Water Pollution Acts.	Ongoing	Senior Exec. Engineer Pollution Control	Farm surveys are not progressing due to lack of resources	Investigating alternative measures of carrying out Farm Surveys.	N	To recommence Jan 07

Table 3.1 Implementation Programme Summary Table: (FINGAL AS A WHOLE)
(Continued)

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed within Timeframe (Y/N)?	If not State Revised Timeframe
To improve unsatisfactory water quality and to maintain satisfactory water quality in the County as a whole	On site treatment system surveys.	Examine on site treatment systems to reduce dangerous substances inputs to rivers.	Carry out surveys on a catchment basis. Where necessary follow up with enforcement action under the Water Pollution Acts.	Ongoing	Senior Exec. Engineer Pollution Control	Septic Tank Surveys not progressing due to lack of resources.	Investigating alternative measures of progressing surveys	N	To recommence Jan 07
	Unlicensed discharge surveys.	Ensure discharges to surface waters are licensed to reduce dangerous substances inputs to rivers.	Carry out surveys on a catchment basis. Where necessary follow up with enforcement action under the Water Pollution Acts.	Ongoing	Senior Exec. Engineer Pollution Control	Surveys have commenced and discharge licences are being progressed/issued on foot of the survey.		Ongoing	
	Implement leakage control	Reduce leakage of treated water to surface waters to 24%.	Implement leakage control programme. Fingal is participating in the Dublin Region Water Conservation Project	31/07/04	Senior Exec. Engineer Water Maintenance	Ongoing.	The leakage control team shall continue their programme of leakage detection and repair	N	A time frame is not appropriate as the process is continuous
	Enforce Water Pollution Acts	Reduce dangerous substances inputs to waters.	Enforcement measures under the Water Pollution Acts. Surveys of bunding and oil/grit interceptors in industrial areas to prevent runoff.	Ongoing	Senior Exec. Engineer Pollution Control	Surveys have been ongoing on a catchment basis		Ongoing	
	Stakeholder consultation and co-operation	Active involvement of stakeholders in implementing measures to reduce inputs to waters.	Consult with agricultural organisations, golf courses and Parks Departments regarding the use of herbicides.	Ongoing	Senior Exec. Engineer Pollution Control	Meetings held with TEAGASC and the IFA. Teagasc participated in drafting of the farm survey form. Survey of golf courses underway and with two discharge licences resulting thus far		Ongoing	
			Liaison with the EPA on IPC and waste facilities	31/07/04	Senior Exec. Engineer Pollution Control	This liaison is ongoing		Ongoing	
	Monitoring measures	Establish baseline water quality conditions	Establish testing procedures for all 14 listed substances for both saline and freshwater with accredited laboratory	31/07/04	Senior Exec. Engineer Pollution Control/Central Laboratory	Baseline water quality conditions established.		Y	

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Table 3.1 Implementation Programme Summary Table: (FINGAL AS A WHOLE)

(Continued)

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed Within Timeframe	If Not, State Revised Timeframe
To improve unsatisfactory water quality and to maintain satisfactory water quality in the County as a whole	Monitoring measures	Establish baseline water quality conditions.	Implement monitoring programme countywide.	31/07/04	Senior Exec. Engineer Pollution Control/Central Laboratory	Monitoring programme has commenced. Programme for gastropod survey for Tributyltin at Harbours drawn up. Coordinated by Central Lab. DCC Dangerous substances monitoring included in Bathing Water monitoring programme.		Y	
		Establish current water quality condition.	Implement monitoring programme countywide	31/07/04	Senior Exec. Engineer Pollution Control			Y	
		Avoid unnecessary duplication of effort.	Integrate monitoring with EPA and Marine Institute monitoring	31/07/04	Senior Exec. Engineer Pollution Control	Monitoring being co-ordinated under the ERBD		N	22/12/06
			Develop specific catchment/sub-catchment monitoring programmes where necessary where existing activities have been assessed as potentially hazardous.	31/07/04	Senior Exec. Engineer Pollution Control	No catchments have been highlighted as being at risk so not specific monitoring programmes have been required to date.		N	Not applicable
		Increase efficiency in storing and interrogating data and so implement P measures more effectively.	Use a GIS system for storing and interrogating data on a catchment basis.	Ongoing	Senior Exec. Engineer Pollution Control	Lab/06 has been installed and historical data entered. GIS system operational.	Ongoing liaison with LGCSB.	Y	
		Make general public and sectoral interests aware of their obligations and so reduce inputs to waters.	Promotion of measures through local media campaigns. Presentations to the Environmental Services and Parks Strategic Policy Committee (SPC)	31/07/04	Senior Engineer Design and Planning	Website regularly updated. Involved in Green Schools. Septic Tank Awareness Campaign in Progress. Agriculture to be targeted in Sept.		Y	
		Co ordinate action with the Department of Agriculture and Food in implementing Code	Investigate notified breaches of the Code of Good Farming Practice Notify the Department of prosecutions.	Ongoing	Senior Exec. Engineer Pollution Control	Will be included in measures to resume farm Surveys.		Ongoing	
		Implementation of Code of Good Farming Practice.							

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4.0 PROGRESS TO DATE

4.1 PLANNING CONTROL AND ENFORCEMENT MEASURES

Fingal County Council issues, monitors and enforces discharge licences under section 4 and section 16 of the Water Pollution Act. A regular monitoring/sampling programme ensures appropriate analysis of the effluent from all licensed facilities to regulate compliance with the conditions set out in the discharge licence.

Progress During Reporting Period

- Further to a review of licences, all discharge licences now contain conditions limiting the content of the various substances listed under the Dangerous Substances Regulations.
- A survey of certain facilities with unlicensed discharges is underway. As part of this survey, all golf course/clubhouses have been assessed and the process of setting conditions and issuing licences to these premises has been commenced. These licences shall take into account the requirements of the Dangerous Substances Regulations and particularly those relating to the use of herbicides/pesticides.
- During the reporting period a number of previously unlicensed premises have, under instruction, applied for discharge licences. It is expected that this number will be increased as the surveys proceed. In particular, all premises within Dublin Airport were instructed to apply for a licence. As a result, 12 premises were licensed while 4 were deemed not to require a licence.
- A "flagging system" to improve the turnaround time on sample results has been introduced. This improves the response time to any pollution incident allowing FCC to source elevated parameters. A number of the companies that have repeatedly discharged effluent in exceedence of their license have been targeted and have brought their process into line with our requirements. This continues to reduce the number of incidences of exceedences of license conditions.
- Following the commencement of the on-site treatment surveys and the farm surveys, a number of section 12 notices were issued and the required improvements detailed and carried out.
- Fingal County Council respond to all reported pollution incidents and following the appropriate investigation and sourcing of the incident take the necessary steps to have the issue resolved or rectified. It has generally been found that the polluter takes the appropriate steps to remedy the problem without prosecution being required. However FCC will proceed with prosecution where necessary.
- A Groundwater Protection Plan was prepared, in conjunction with the GSI, for the Bog of the Ring Aquifer. Based on this, the planning requirements for proposed works in this area have been increased depending on the area in which the development is proposed.

- FCC have set up a Water Pollution GIS system and database indicating sampling points, pollution incidents, septic tank surveys, farm surveys and catchments. The GIS will be expanded to include information relating to farmland boundaries under the Farms Survey scheme in liaison with the DAF. The Water Pollution Control Section have recently established a database to store detailed information relating to pollution incidents, trade effluent discharge licence exceedences, farm surveys and septic tank surveys. This will be linked to the GIS to aid management and protection of waters. The GIS will be used to implement the RMCEI Plan for the Water Pollution Control Section.

Problems Encountered

- While FCC aims to resolve all issues regarding unlicensed discharges, pollution or non-compliance with discharge licenses in a co-operative manner it is not always possible. In 2005 it was necessary to obtain an injunction against a contractor instructing them not to discharge material in exceedence of their licence as the matter was causing damage to the Ward River. The contractor then complied with all requirements of the license and carried out remediation, as far as possible, on the river.
- Farm Surveys and Septic Tank Surveys have not been carried out in 2006 due to limited resources. FCC are considering the possibility of outsourcing farm surveys and septic tank surveys. Outsourcing would enable FCC to determine problem areas while retaining control of statutory elements under the Water Pollution Acts 1977&1990.
- FCC have adopted the E.P.A's Guidance Document 'Treatment Systems for Single Houses'. All on-site treatment systems newly installed in the FCC area must now comply with this document.

Future Plans/New Directions

- Due to the level of development within the county and the resulting increased risk of discharge from the sites that may cause pollution, Fingal County Council has developed *Guidelines for Construction Sites*. Along with regular visits to sites and the subsequent licensing of discharges from site where necessary, these guidelines propose to reduce the risk of pollution.
- Fingal County Council have adopted the GSDSDS Regional Policy on Stormwater which will improve the quality of stormwater run-off entering our streams.
- Fingal County Council is investigating other methods of carrying out Farm Surveys and Septic Tank Surveys and are liaising with other Local Authorities.
- Under the Planning and Development Act 2000, householders proposing to install an on-site treatment system are required to pay a deposit which is returned upon inspection by FCC confirming that it is installed properly.
- FCC is investigating co-ordinating a database of all boreholes with the new GIS system.

4.2 CONSULTATIVE AND COOPERATIVE MEASURES

As most of the rivers within the functional area of Fingal County Council traverse the county boundary, FCC liaise with Meath County Council and Dublin City Council on regular basis to ensure proper management of the catchments. It is anticipated that this liaison will increase following the implementation of the Draft Monitoring Programme of the Eastern River Basin District.

Progress During Reporting Period

- The functional area of Fingal County Council is contained within the Eastern River Basin District (ERBD). This district comprises thirteen local authorities with Dublin City Council as the co-ordinating authority. The draft monitoring programme published by the EPA has detailed 23 monitoring points under Operational Subnet 2 which FCC are required to monitor from December 2006.
- Further to discussions with Meath County Council regarding developing a Catchment Management Plan for the Broadmeadow and Ward Rivers, it has been decided that this will come under the remit of the ERBD.
- The measures proposed in the Tolka River Basin Management Plan will continue to be implemented by Fingal County Council in association with Meath County Council and Dublin City Council. It is envisaged that this management plan will be incorporated into the Eastern River Basin Management Plan.
- Fingal County Council adopted the Sludge Management Plan in 2002 which recommends a number of measures aimed at protecting water quality. This has gone to the tender stage.
- Prior to commencement of the Farms survey, consultation was held with Teagasc and the Fingal branch of the IFA. This consultation has resulted in the farming community being more receptive to the survey process and the improvements recommended on foot of the findings. The ongoing consultation between FCC, Teagasc, the DAF and the IFA is necessary to ensure that best practice is employed on all farms and that proper nutrient management and control of the use of herbicides is in place countywide. The continued liaison with the above authorities will be necessary to maximise the effectiveness of these measures.
- FCC liaise with the stakeholders at Dublin Airport and form part of a group, the Dublin Airport Pollution Control Committee (DAPCC) that meets on a regular basis to co-ordinate measures to combat water pollution at the airport. This process has been effective in formulating appropriate measures and responses to any potential pollution incidents at the airport.
- Fingal County Council also liaise with the Eastern Regional Fisheries Board on various issues in relation to the protection of the water bodies in the county.
- The issuing, monitoring and enforcement of discharge licences allows the Local Authority to liaise with

the various industries within the county to control the discharge of substances listed under the Dangerous Substances Regulations.

- Water Services have completed their LAMS Submission. Water Services are liaising with the Environment Department on a number of issues.
- FCC are complying with the Environmental Inspection Policy by developing a software package in co-ordination with The Environment Department, FCC to satisfy this requirement.
- Dublin Bay Water Quality Management Co-ordinating Group meet on a regular basis to resolve issues relevant to both Local Authorities.

Problems Encountered

- FCC have not been obtaining sample results within a sufficient period of time to enable FCC to respond to pollution incidents effectively. This is being resolved with the establishment of a 'flagging system' with DCC to notify FCC of problems as close to the time of sampling as possible to enable FCC to carry out a pollution investigation and remedy the problem.

Future Plans/New Directions

- In 2006 a Pilot FOG'S Control Programme was carried out in Malahide. The Water Pollution Control Section propose to implement a programme countywide in 2007.

4.3 MONITORING MEASURES

FCC established a monitoring programme in 2001 under the Dangerous Substances Regulations which covers rivers and estuaries. This is ongoing. In addition, routine monitoring is carried out on rivers under the Phosphorus Regulations and on UWWTW effluent and licenced trade effluent discharges. Although this programme is quite comprehensive, it is intended that the programme be reviewed and extended as part of an Environmental Management System approach to water quality issues.

Progress During Reporting Period

- Samples are taken at designated locations along the thirteen rivers and three estuaries monitored within Fingal, under the Dangerous Substances Regulations, and then delivered to the Central Laboratory for analysis. A Chain of Custody is in place to ensure sampling procedures are routine.
- Regular sampling of all licenced discharges, as recommended on their discharge licences, is carried out by a member of staff with the samples subsequently delivered to the Central Laboratory for analysis.
- A monitoring programme is in place to record the discharge from the urban wastewater treatment plants within the county. This programme will be continued under the Senior Executive Engineer,

Drainage Maintenance: Periodic monitoring by the Water Pollution Control Section will continue.

- FCC have also employed additional staff to investigate misconnections in the sewerage network and to arrange for these problems to be rectified. Progress of this procedure will undoubtedly reduce the potential for sewage pollution.
- To facilitate monitoring and the proper recording of the results of all monitoring, LabInfo software has been installed and historical data input into the system. All information will be input into a comprehensive GIS which will facilitate the proper management of the various catchments. This is in the developmental stage.
- A survey of all on-site treatment systems has commenced to assess and condition all systems to reduce the potential for pollution from these sources. Section 12 notices have been served on those premises found to be causing or have the potential to cause pollution. It is intended that the current programme be reviewed and extended accordingly to include additional sampling locations within the catchments or sub-catchments if required.

Problems Encountered

- Sampling results were being received a number of months after samples were taken thus leaving it very difficult to identify and solve the problem. FCC met with the Central Laboratory to set up a procedure, a 'flagging-system', where we are notified on a weekly basis of any exceedences, which then go through the certification procedure.
- As discussed previously, due to lack of resources, Farm Surveys and Septic Tank Surveys have not been carried out in 2006. FCC propose to outsource the Farm Surveys and Septic Tank Surveys as discussed in Section 3.1.
- The Health & Safety Aspects of this work is increasingly becoming a problem. A Health and Safety Policy is being prepared specifically for the Water Pollution Control Section.
- Due to the number of onsite treatment systems in the county, completion of the survey will take a considerable time. Where appropriate, discharge licences shall be required by the local authority. In 2006, these surveys have not taken place due to lack of resources. The septic tank survey will be linked with the Farms Survey under the proposal to outsource these surveys.

Future Plans/New Directions

- As discussed previously, Fingal County Council is investigating other methods of carrying out Farm Surveys and Septic Tank Surveys and are talking to other Local Authorities
- A comprehensive catchment survey has been carried out in the Santry Catchment highlighting the existing and potential problems which have been dealt with. Currently, a catchment management survey of The Ward catchment is being undertaken.

- A programme to establish pollution loading to rivers from FCC's small municipal treatment plants was carried out in 2003/2004. This programme is to resume in the near future to establish current pollution loading from the plants in respect of substances listed under the Dangerous Substances Regulations. This is of particular importance as many of the small plants are being upgraded.

4.4 PUBLIC EDUCATION AND ADVISORY MEASURES

Public information can have a significant effect in reducing pollution or the potential for pollution. With this in mind, Fingal County Council are endeavouring to make this information more accessible through a number of media.

Progress During Reporting Period

- Presentations have been made to relevant bodies such as the IFA, Teagasc and the Environmental Services and Parks SPC.
- An Environmental Awareness Officer is employed by FCC to raise public awareness of all environmental issues including those relating to water.
- A web page has been developed for inclusion on Fingal County Council's website. This web page provides appropriate information for the general public regarding the quality of our water bodies and the measures which individuals may take to maintain these waters.

Future Plans/New Directions

- Individual campaigns targeting areas of particular concern including on-site treatment systems, misconnections, agriculture have commenced using various media where relevant. These include local papers, website, FCC newsletter and leaflet drops.
- FCC have joined with the Environment Section to take part in the Green Schools Campaign.

4.5 OTHER NATIONAL AND MISCELLANEOUS MEASURES RELEVANT TO DANGEROUS SUBSTANCES

Progress During Reporting Period

- Additional works have been carried out to existing foul sewerage systems to improve capacity and reduce the frequency of discharge from Combined Storm Overflows. The Greater Dublin Strategic Drainage Study has modelled a number of the sewerage systems within the county and highlighted sections of sewer and overflows which require upgrading. Some of these improvements have taken place with others to be programmed for completion.
- The Rural Village Schemes are being upgraded in 2006 / 2007 period. These will include nutrient removal mechanisms.

- Various assessments of the existing networks are underway such as the Greater Dublin Strategic Drainage Study (GDSDS). This study highlights various capacity constraints within the system and recommends measures to alleviate these constraints. Of primary concern to this report is the reduction of spills from combined system overflows. In this regard, some of the recommended works have been completed with further recommendations due to be implemented in due course.
- Fingal County Council are currently undertaking a major water conservation project aimed at reducing the volume of unaccounted for water which includes that going to leakage. As this is a continual process, the level of leakage will fluctuate however FCC are committed to reducing this leakage as far as is reasonable.
- A regular monitoring programme is in place to monitor the discharge from all urban wastewater treatment works to ensure that all discharges comply with the Urban Wastewater Regulations. There have also been a number of improvements to the existing treatment works with further improvements planned as detailed in section 3 of this report. These improvements include the decommissioning of Balgriffen WWTW and the upgrading of Swords and Malahide WWTW.

Problems Encountered

- An on-going problem within the Water Pollution Control Section is the increasing workload putting pressure on existing resources.
- Health and Safety Concerns.
Lone working has been highlighted as a health and safety concern within the Water Pollution Control Section. It is preferable to have two staff members on-site at any one time. Lifting automatic sampling equipment in and out of vehicles is a concern. Lifting manhole covers to gain access to manhole chambers is a concern. FCC staff have completed manual handling courses in this respect A Health and Safety Policy is being prepared specifically for the Water Pollution Control Section.

Future Plans/New Directions

- FCC proposes to implement their monitoring requirements under the Draft ERBD Monitoring Programme. Liaison with the ERBD and the E.P.A is ongoing in relation to this matter. FCC recently submitted comments on E.P.A's draft document – National Surface and Groundwater Monitoring Programmes and are awaiting the publication of a final document.
- A Pilot Quality Management Scheme is proposed for the Water Pollution Section of Water Services. This will establish written procedures for issues such as; review of monitoring data under established monitoring programmes, responding to water pollution incidents, reporting on water pollution incidents and following up exceedences under Trade Effluent Discharge Licences.

4.6 SUMMARY AND CONCLUSIONS

Progress During Reporting Period

- FCC has examined all aspects of Trade Effluent Discharge licensing and have made a number of improvements. These include licensing additional facilities, developing a 'flagging-system' for exceedences and responding appropriately.
- The Water Pollution Control Section has set up a GIS system to co-ordinate all the data from the section with other data such as aerial photography, mapping and drainage infrastructure.
- FCC is currently upgrading small municipal treatment works within the county to include nutrient removal.

Problems Encountered

- The establishment of a 'flagging-system' with the Central Laboratory, DCC has increased the turn around time on sample results enabling FCC to respond to pollution incidents more effectively and liaise promptly with Licensed Companies where exceedences in licence limits are identified.
- The formulation of a Health and Safety policy for the Water Pollution Control Section has helped identify problem areas such as lone working and gaining access to trade effluent discharge points. FCC have addressed these issues so duties are carried out more efficiently.
- As outlined FCC are considering the possibility of outsourcing farm surveys and septic tank surveys. Limited resources have hindered progress with this measure. Outsourcing would enable FCC to determine problem areas while retaining control of statutory elements under the Water Pollution Acts 1977&1990.

Future Plans/New Directions

- A programme to control discharges of FOG's from food service outlets is being established by FCC. Currently the Water Pollution Control Section issue Trade Effluent Discharge Licences in respect of FOG's to establishments where problems are encountered. It is envisioned that a contracting company will be enlisted to carry out a survey of all food service outlets. FCC will retain the statutory rights over the issue of Trade Effluent Discharge Licences in respect of FOG's to establishments. However the contractor will monitor the establishments performance and report back to FCC in case of exceedences where FCC will respond appropriately.
- The GIS will be expanded to include information relating to farmland boundaries under the Farms Survey scheme in liaison with the DAF. The Water Pollution Control Section have recently established a database to store detailed information relating to pollution incidents, trade effluent discharge

licence exceedences, farm surveys and septic tank surveys. This will be linked to the GIS to aid management and protection of waters. The GIS will be used to implement the RMCEI Plan for the Water Pollution Control Section.

- A public awareness campaign is ongoing in liaison with the Environmental Awareness Officer. An Agricultural review is being carried out and agriculture will be targeted in September. A public awareness leaflet detailing Farm Survey procedures and promoting Good Farming Practice will be completed by September in liaison with Teagasc and the IFA. Public awareness leaflet for Service Stations, detailing maintenance of interceptors and preventing water pollution will be completed by September. An information leaflet on management of surface water on construction and demolition sites is currently being finalised.
- Outsourcing is being considered as an option to overcome limited resources within the Section. Liaison with Wicklow County Council regarding their own outsourcing programme is proving beneficial. Teagasc have also been consulted on the matter.
- The Central Laboratory, DCC are setting up a new LIMS system. FCC has installed LabInfo and the two systems are compatible. The systems will allow for transfer of data between DCC and FCC allowing FCC to respond effectively to water pollution incidents and exceedences in Trade Effluent Discharge Licences.
- The smaller TW's in rural Fingal are being upgraded to include nutrient removal and reduce pollution loading on riverbodies. A number of these contracts have already gone to tender for the Ballyboghil and Garristown plants. The Naul and Oldtown Treatment Plants are in the planning stages.

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APPENDIX A

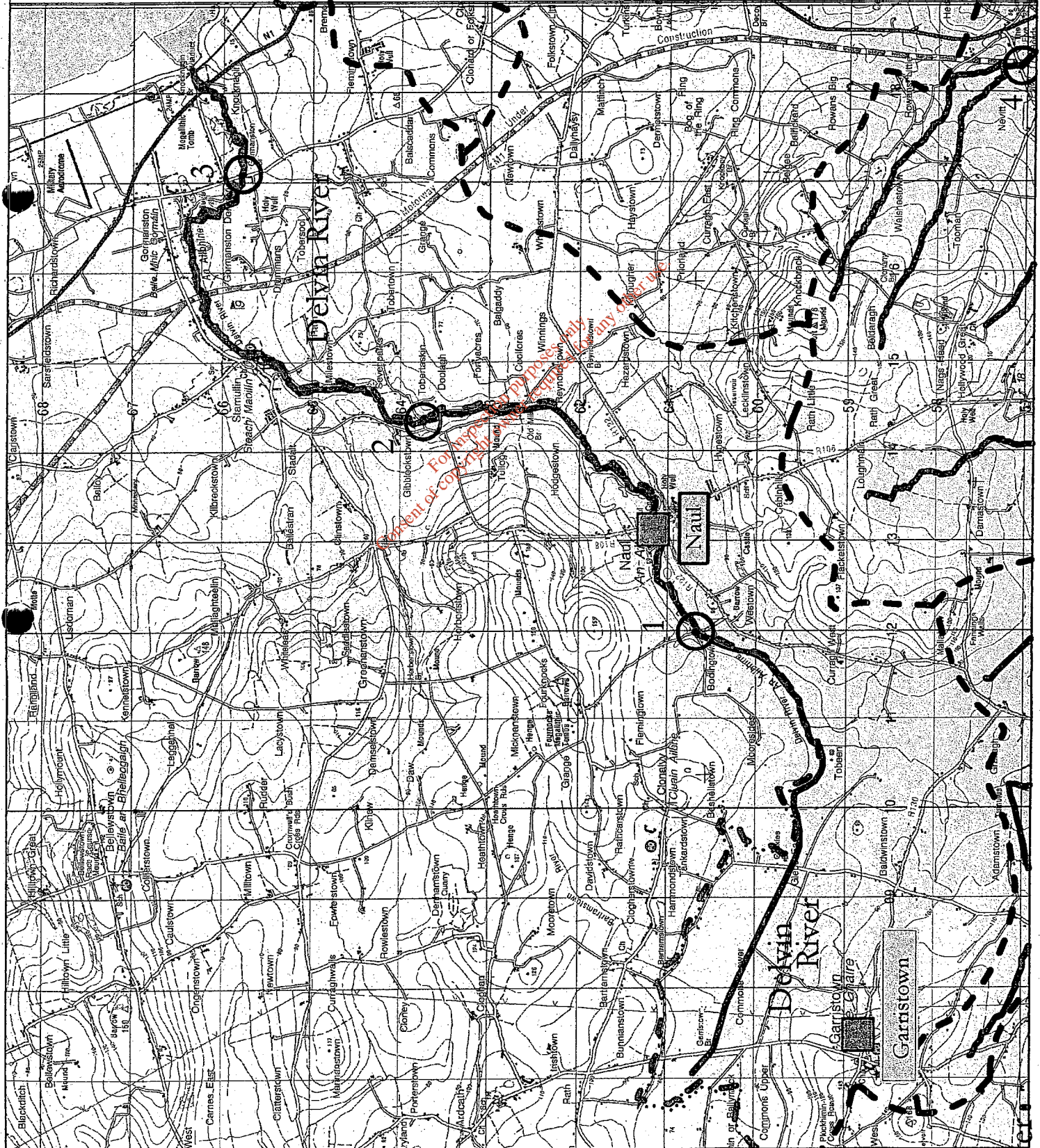
DRAWINGS

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- Legend:**
- Treatment works with outfall discharging to river.
 - River
 - Catchment Boundary
 - Fingal County Council Boundary
 - Sampling Points

River Delvin River Code 08/D/01 Stat. Code 0080 0250 0400 Station No. 1 2 3



Comhairle Contae Fhine Gall
Fingal County Council



Fingal County Council
Comhairle Contae Fhine Gall

County Hall,
Swords,
Fingal,
Co. Dublin

PJ Howell
Director of Services






P. O'Reilly B.E., C.ENG., M.I.E.I.
Senior Engineer Acting Senior Executive Engineer

**DANGEROUS SUBSTANCES
REGULATIONS
SECOND IMPLEMENTATION REPORT
JULY 2006**

**DELVIN RIVER
CATCHMENT**

D63-01B

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- Legend:**
-  Treatment works with outfall discharging to river.
 -  River
 -  Catchment Boundary
 -  Fingal County Council Boundary
 -  Sampling Points

River Ballough 08/B/03
 Stat. Code 1400
 Station No. 4
 1600 5

Comhairle Contae Fhine Gall
 Fingal County Council

County Hall,
 Swords,
 Fingal,
 Co. Dublin



Fingal County Council
 Comhairle Contae Fhine Gall

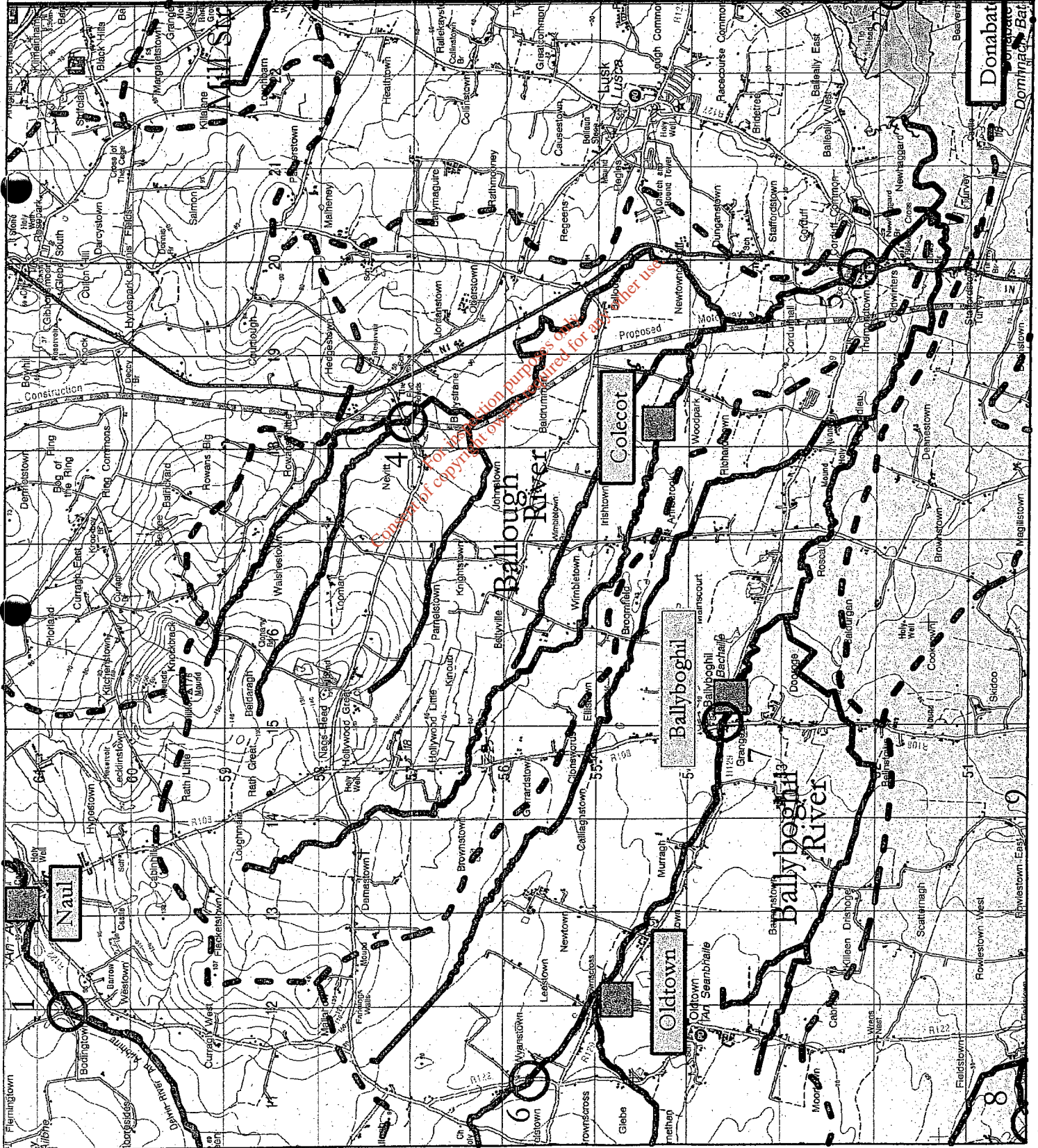
PJ Howell
 Director of Services

P. O'Rally B.E., C.ENG., M.I.E.I.
 Senior Engineer
 Acting Senior Executive Engineer

**DANGEROUS SUBSTANCES
 REGULATIONS
 SECOND IMPLEMENTATION REPORT
 JULY 2006**

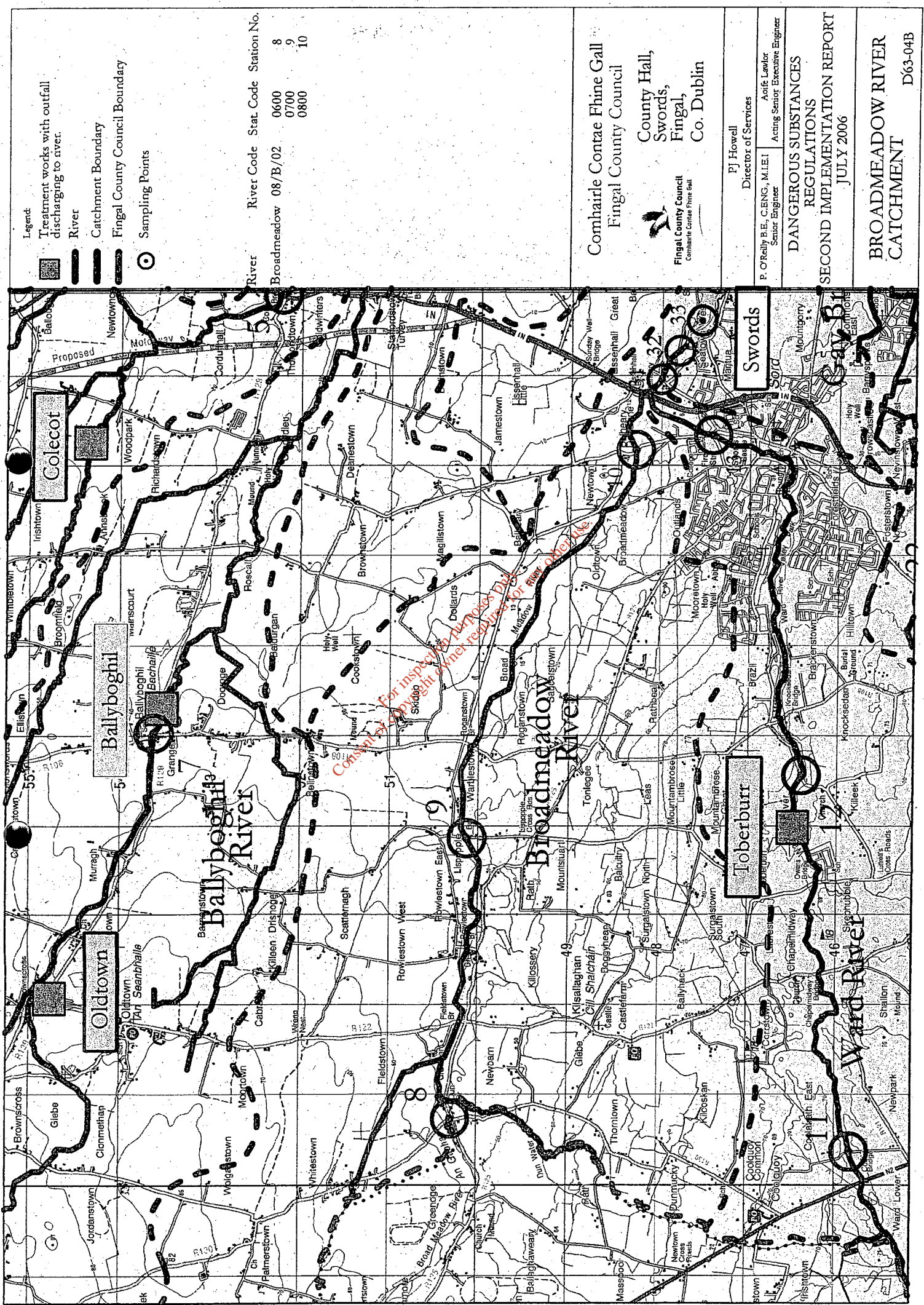
**BALLOUGH RIVER
 CATCHMENT**

D63-02B



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- Legend**
- Treatment works with outfall discharging to river.
 - River
 - Catchment Boundary
 - Fingal County Council Boundary
 - Sampling Points

River: Broadmeadow
 River Code: 08/B/02
 Stat. Code: 0600
 Station No.: 8, 9, 10

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 Fingal County Council

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 Comhairle Contae Fhine Gall

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PJ Howell
 Director of Services

P. O'Reilly B.E., C.ENG., M.I.E.I.
 Senior Engineer
 Acting Senior Executive Engineer

**DANGEROUS SUBSTANCES
 REGULATIONS
 SECOND IMPLEMENTATION REPORT**
 JULY 2006

**BROADMEADOW RIVER
 CATCHMENT**
 D63-04B


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- Legend:
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 - River
 - Catchment Boundary
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 - Sampling Points

River	River Code	Stat. Code	Station No.
Ward	08/W/01	0070	11
		0300	12
		0610	13

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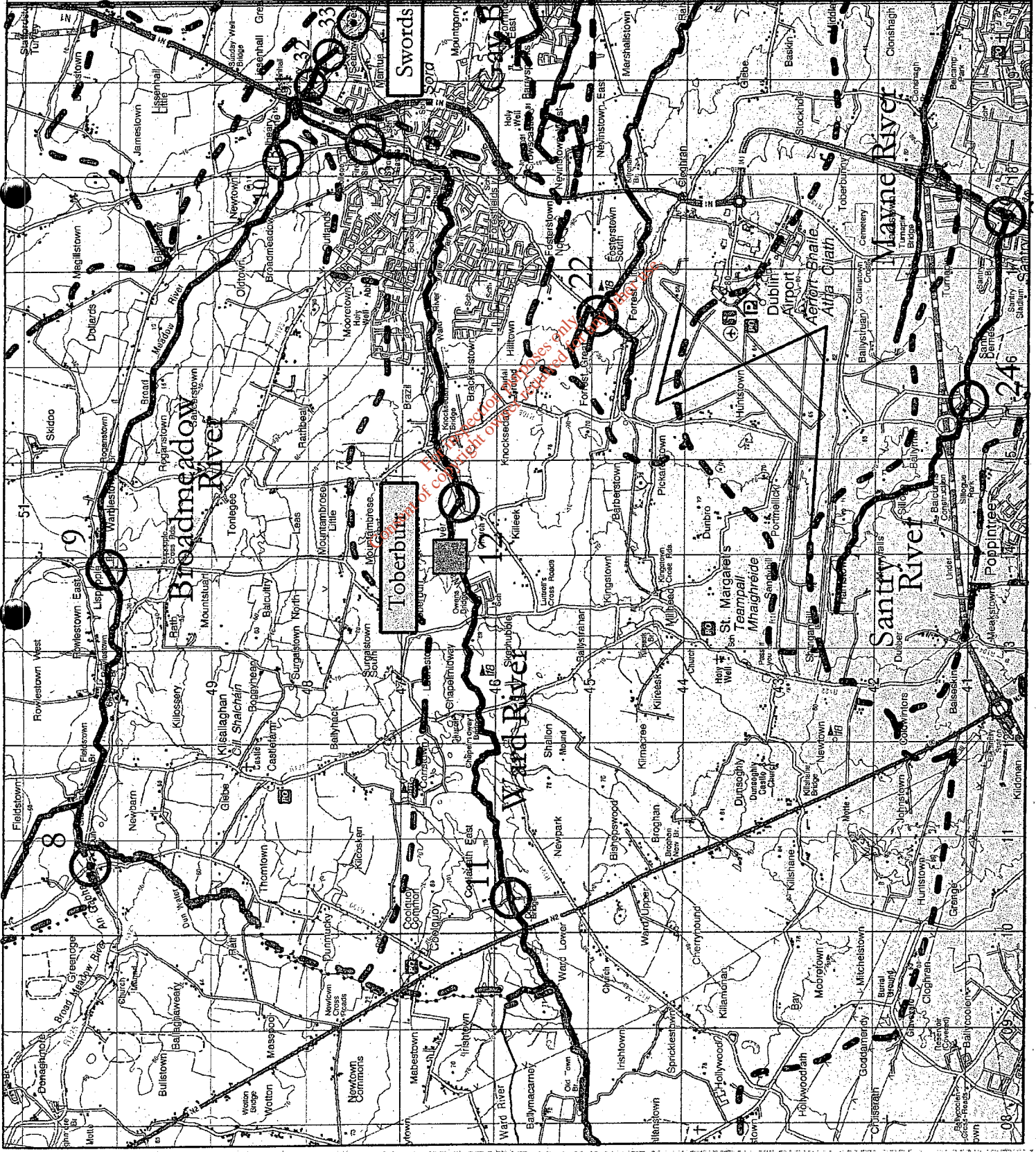
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REGULATIONS
SECOND IMPLEMENTATION REPORT**

JULY 2006

WARD RIVER CATCHMENT

D63-05B

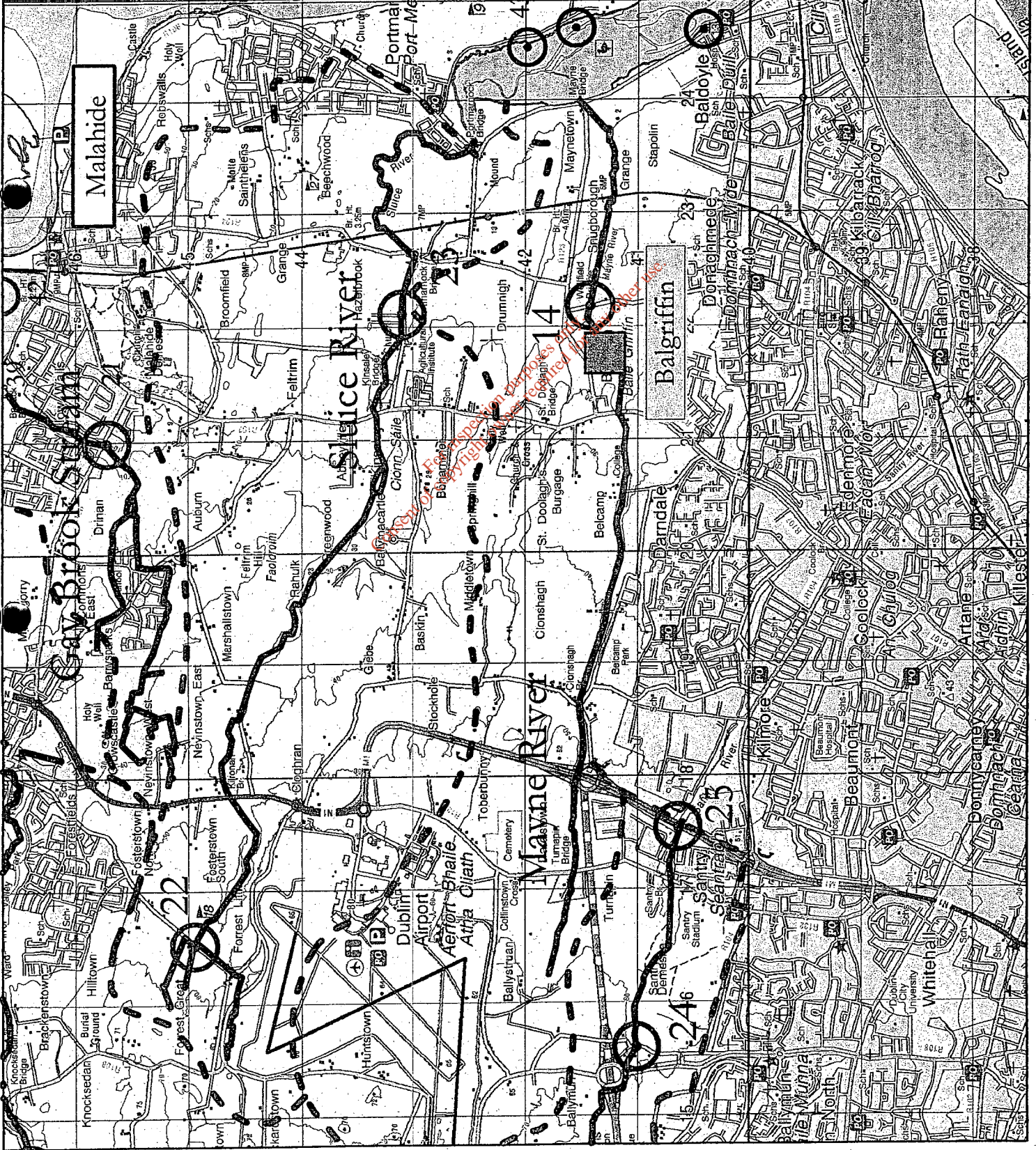


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Legend:

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- River
- Catchment Boundary
- Fingal County Council Boundary
- Sampling Points

River: Mayne River Code: 09/M/03 Stat. Code: 0500 Station No.: 14



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Aislinn Lawlor
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**MAYNE RIVER
CATCHMENT** D63-06B

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- Legend:
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 - River
 - Catchment Boundary
 - Fingal County Council Boundary
 - Sampling Points

River Pinkeen River Code 09/P/02 Stat. Code 0700 Station No. 15

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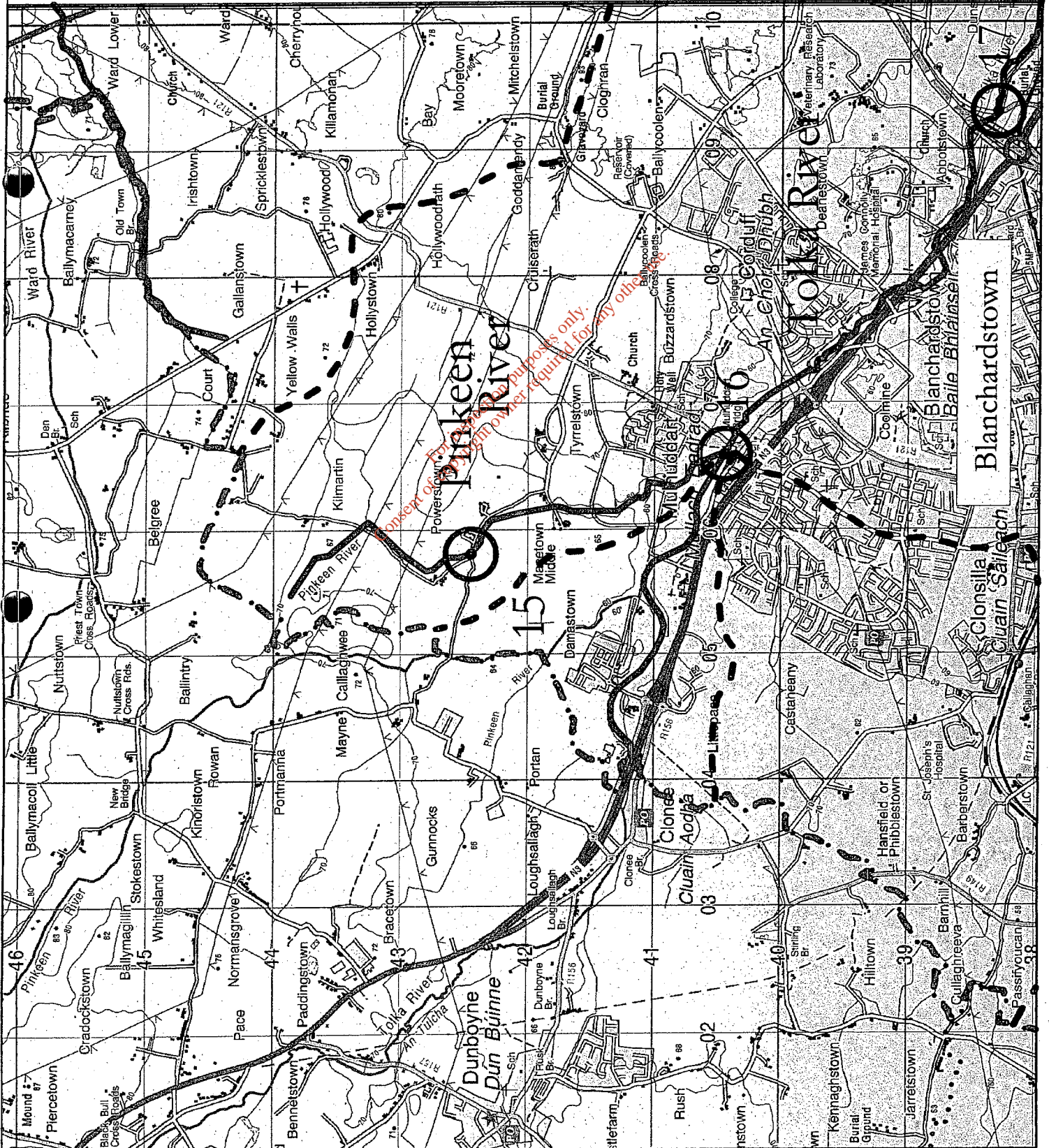


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DANGEROUS SUBSTANCES
REGULATIONS
SECOND IMPLEMENTATION REPORT
JULY 2006

PINKEEN RIVER
CATCHMENT D63-07B

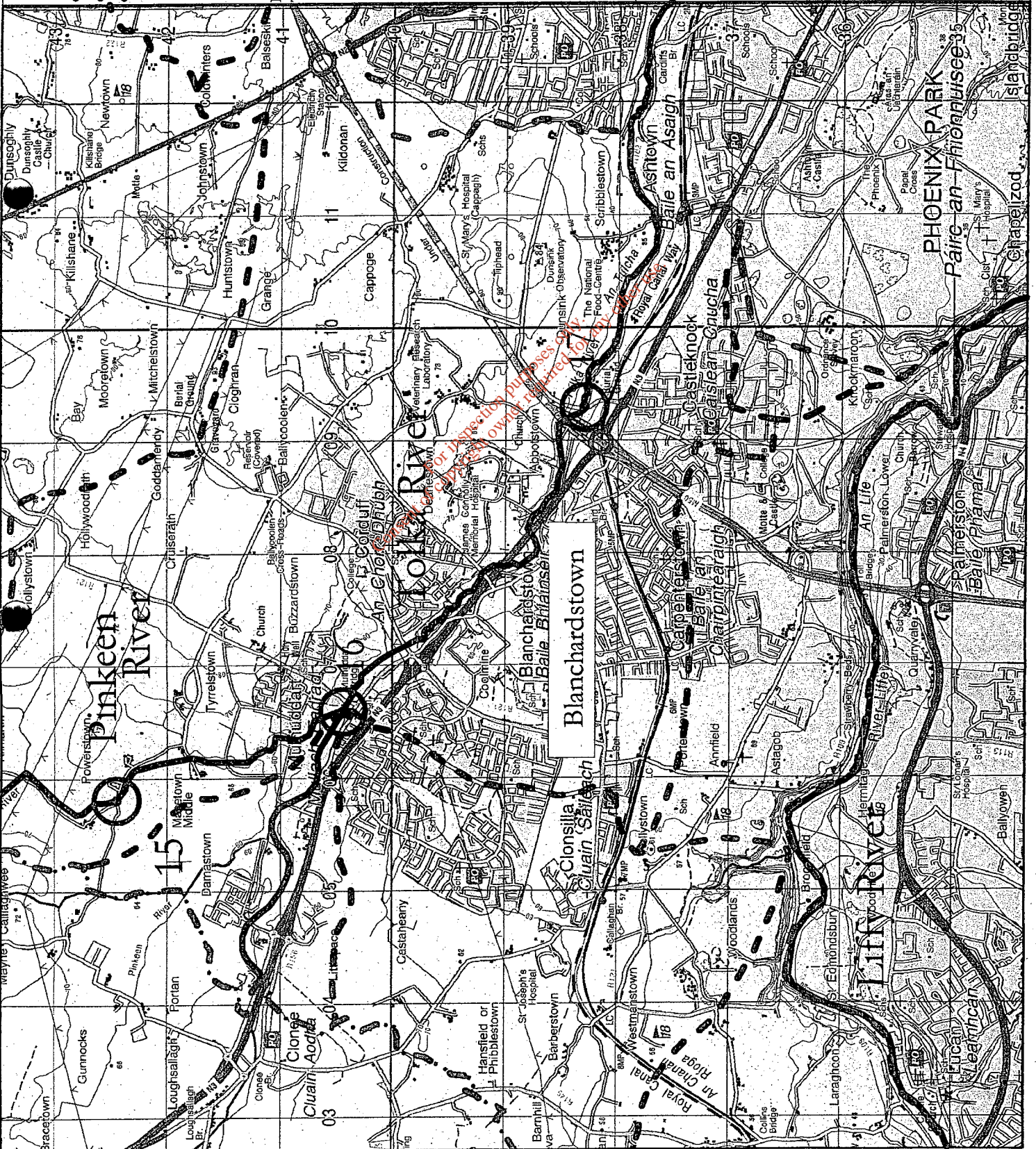


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Legend:

- Treatment works with outfall discharging to river.
- River
- Catchment Boundary
- Fingal County Council Boundary
- Sampling Points

River Code Stat. Code Station No.
 Tolka 09/T/01 0800 16
 1000 17



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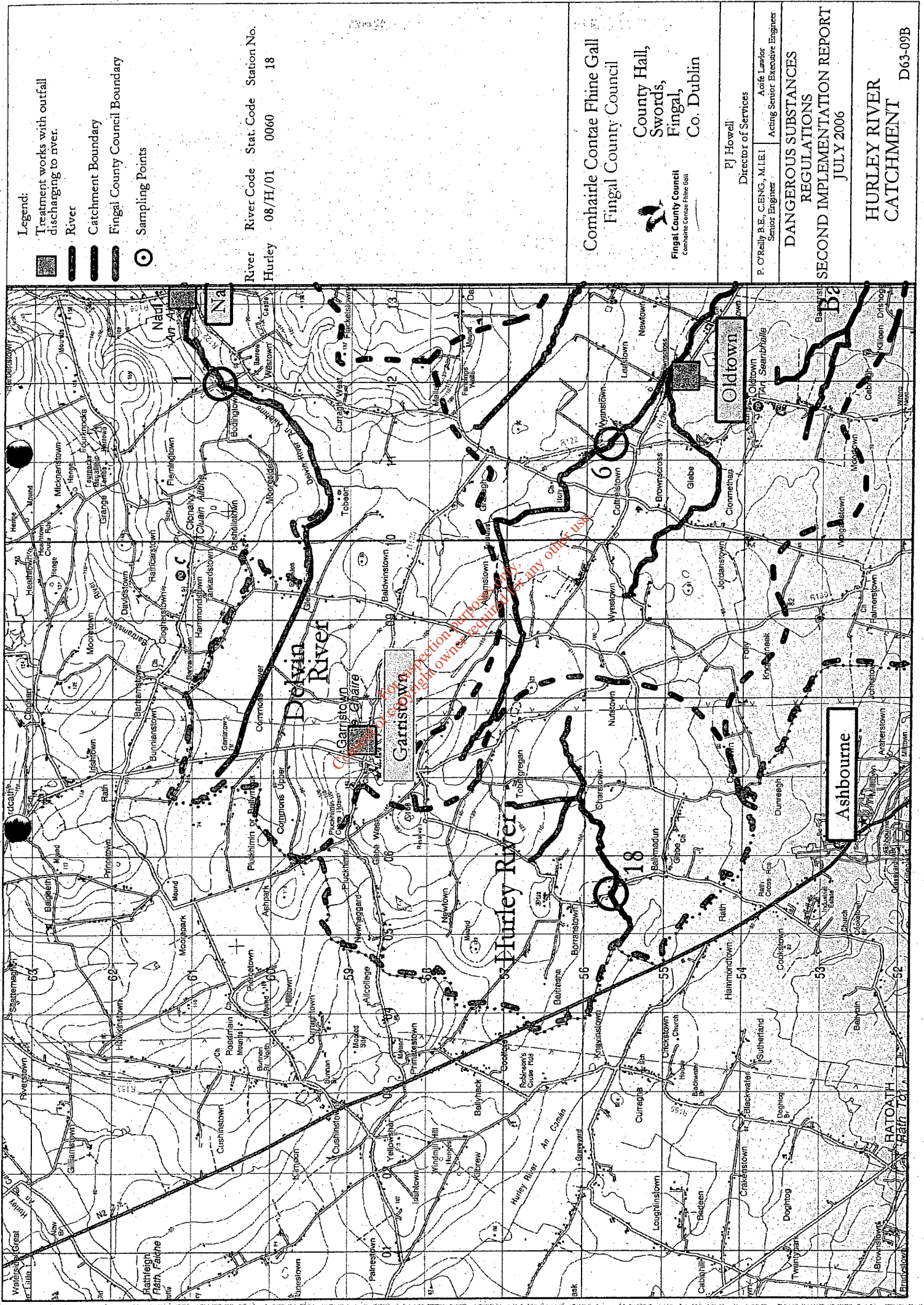
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**DANGEROUS SUBSTANCES
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 JULY 2006**

TOLKA RIVER CATCHMENT
 D63-08B

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Legend:
 Treatment works with outfall discharging to river.
 River
 Catchment Boundary
 Fingal County Council Boundary
 Sampling Points

River Hurley River Code Stat. Code Station No.
 08/H/01 0060 18

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DANGEROUS SUBSTANCES
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HURLEY RIVER
 CATCHMENT D63-09B

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Legend:

- Treatment works with outfall discharging to river.
- River
- Catchment Boundary
- Fingal County Council Boundary
- Sampling Points

River: Mill Stream **Location:** Baldongan Bridge
Station No.: 19
 20

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 Senior Engineer **Aislinn Lawlor**
 Acting Senior Executive Engineer

DANGEROUS SUBSTANCES
REGULATIONS
SECOND IMPLEMENTATION REPORT
 JULY 2006

MILL (BROOK) STREAM
CATCHMENT D63-10B



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Legend:

Treatment works with outfall discharging to river.

River

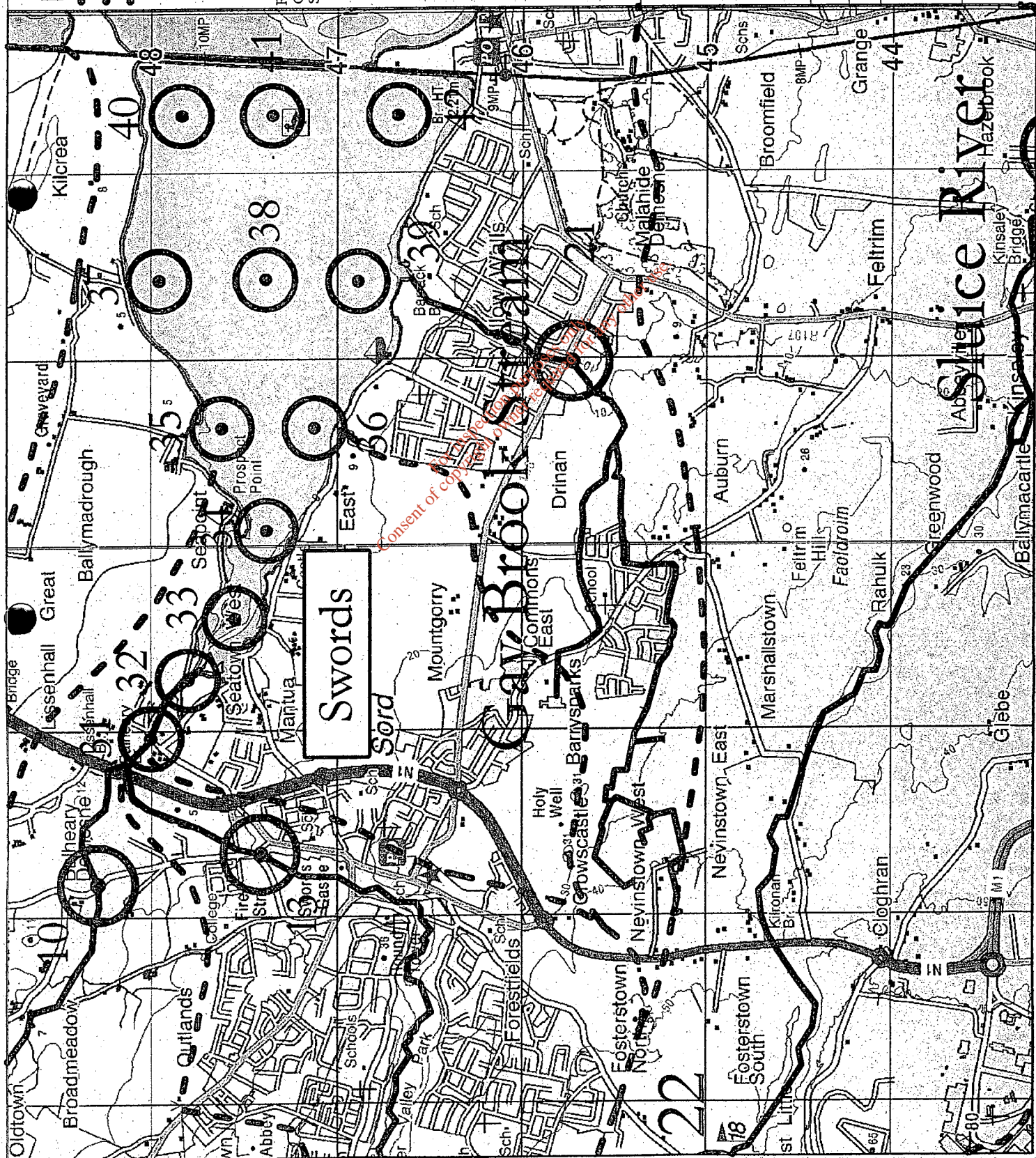
Catchment Boundary

Fingal County Council Boundary

Sampling Points



River: Gay Brook Stream
Location: Swords Road
Station No.: 21



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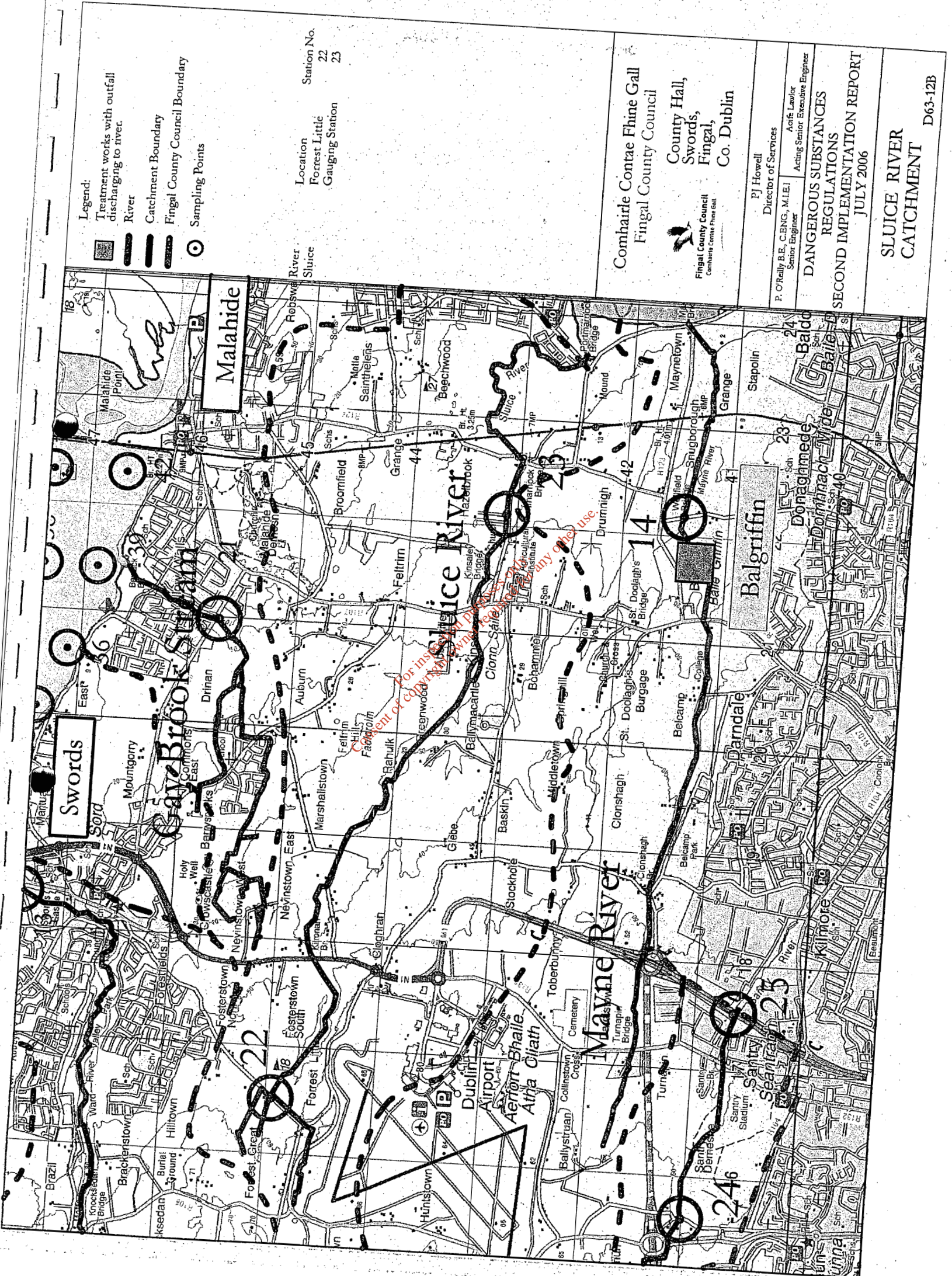
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Acting Senior Executive Engineer

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GAY BROOK STREAM
CATCHMENT
D63-11B

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Legend:

- Treatment works with outfall discharging to river.
- River
- Catchment Boundary
- Fingal County Council Boundary
- Sampling Points

Location
 Forrest Little
 Gauging Station

Station No.
 22
 23

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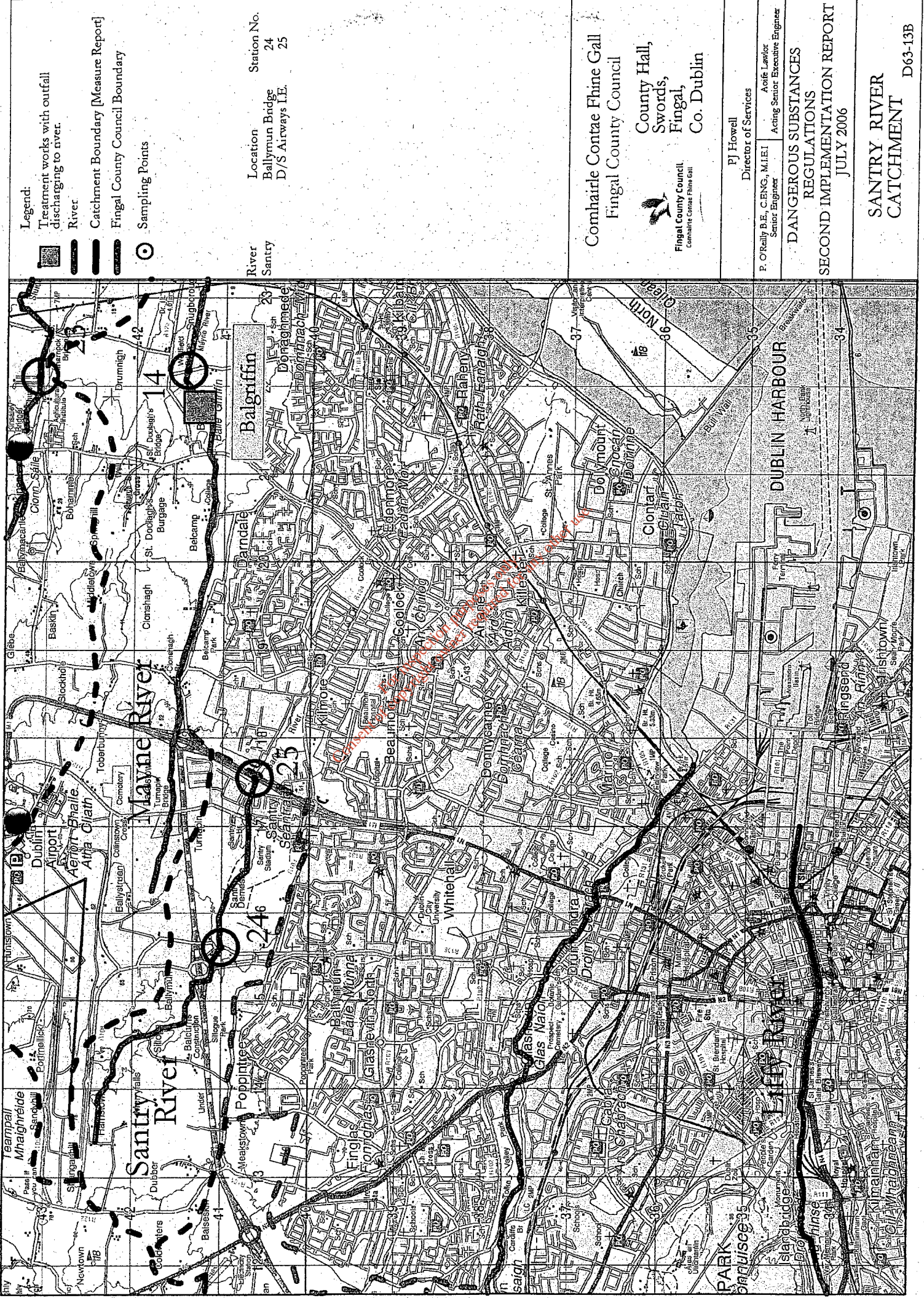
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**DANGEROUS SUBSTANCES
 REGULATIONS
 SECOND IMPLEMENTATION REPORT
 JULY 2006**

**SLUICE RIVER
 CATCHMENT**

D63-12B

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- Legend:**
- Treatment works with outfall discharging to river.
 - River.
 - Catchment Boundary [Measure Report].
 - Fingal County Council Boundary.
 - Sampling Points.


River
Santry

Station No.
24
25

Location
Ballymun Bridge
D/S Airways I.E.

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Senior Engineer






Aoife Lavelle
Acting Senior Executive Engineer

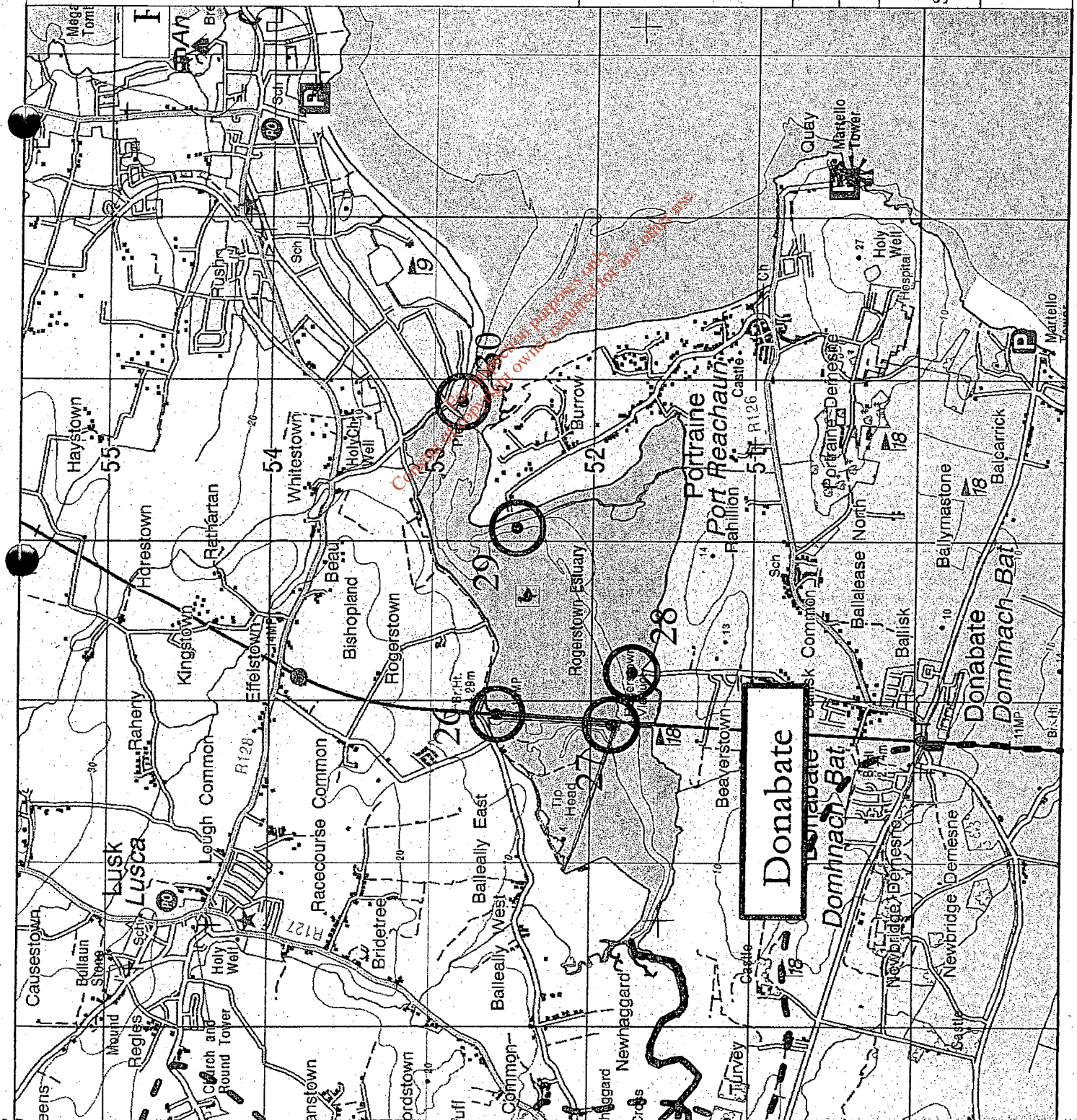
**DANGEROUS SUBSTANCES
REGULATIONS
SECOND IMPLEMENTATION REPORT**

JULY 2006

**SANTRY RIVER
CATCHMENT** D63-13B

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Legend:  Treatment works with outfall discharging to river.  River  Catchment Boundary  Fingal County Council Boundary  Sampling Points	Station No. 26 27 28 29 30
	Location Steam O/F Railway Br. U/S Railway Viaduct Beaverstown Lane Burrow, Portrane Rogerstown Slipway



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Director of Services

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**DANGEROUS SUBSTANCES
REGULATIONS
SECOND IMPLEMENTATION REPORT
JULY 2006**

ROGERSTOWN ESTUARY

D63-14B

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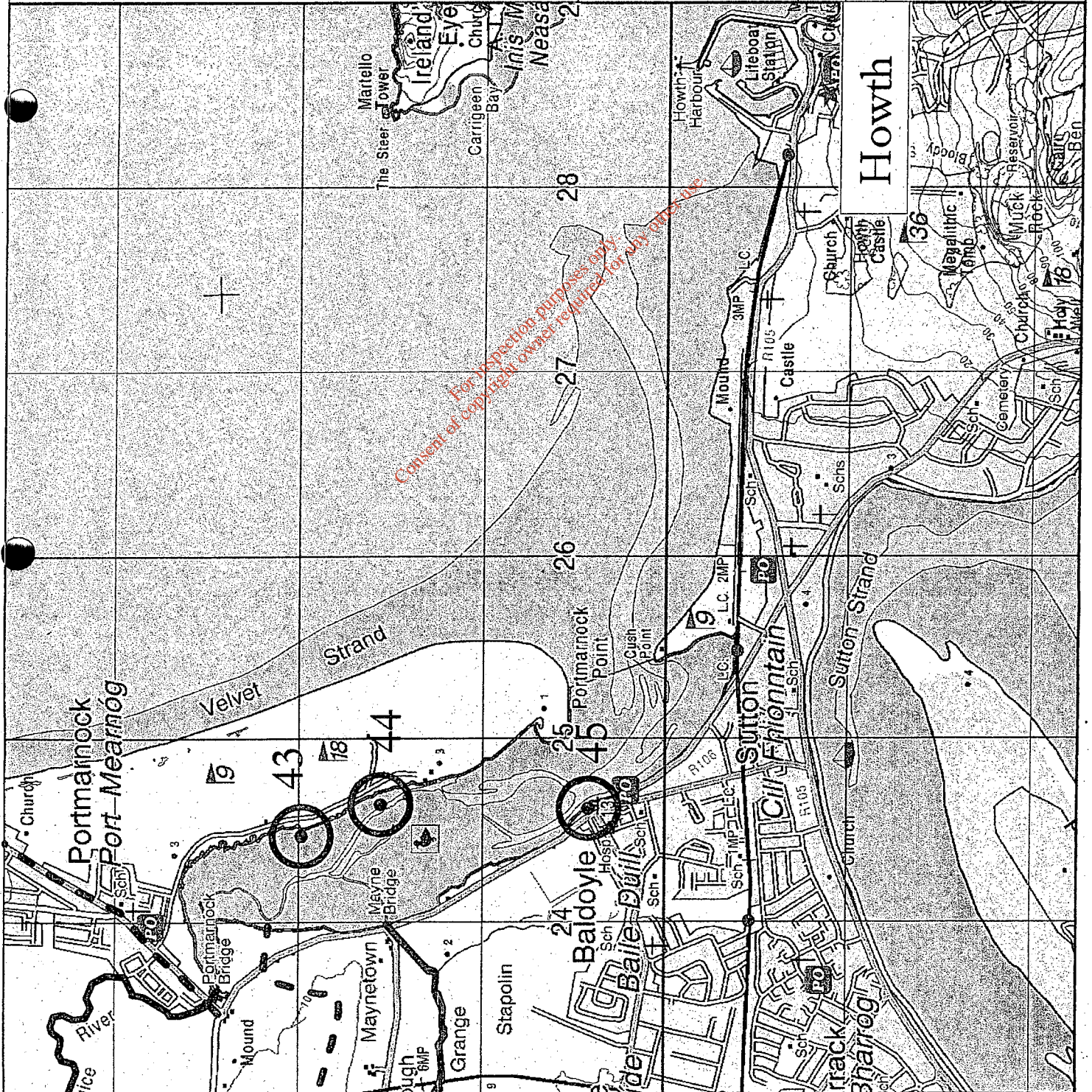
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Legend:

- Treatment works with outfall discharging to river.
- River
- Catchment Boundary
- Fingal County Council Boundary
- Sampling Points

Location

Off Golf Links Road	Station No. 43
Rere Of Golf Club Shop	44
Rere of Baldoyle Church	45



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Acting Senior Executive Engineer

**DANGEROUS SUBSTANCES
REGULATIONS
SECOND IMPLEMENTATION REPORT
JULY 2006**

BALDOYLE ESTUARY

D63-16B

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APPENDIX B

CURRENT WATER QUALITY

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Table B1: River Water Quality Standards to be achieved by 2010 DELVIN [08/D/01]

Local Authority Name	FINGAL CO. COUNCIL			Measures Report Year		
River Name	River Code	Monitoring Station Code	Station Name	Grid Reference	Dangerous Substance	31 st July '04-31 st July '05
Delvin	08/D/01	0080	Bridge W of Naul			
					Arsenic	-
					Atrazine	-
					Chromium	<2
					Copper	5
					Cyanide	-
					Fluoride	124
					Lead	4
					Methylene Chloride	-
					Nickel	<6
					Simazine	-
					Toluene	-
					Xylene	-
					Zinc	2
						Baseline Condition (µg/l)
						Water Hardness (mg/l CaCO3) (where applicable)
						Baseline Quality (Satisfactory)

(Continued)

Current Condition (µg/l) Note (1)	Water Hardness (mg/l CaCO3) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(6) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	If there is an identifiable Source, please enter details
1	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<2	→100	30	Yes	No	-	-	-
<5	→100	30	Yes	No	-	-	-
5	→100	10	Yes	No	-	-	-
38	→100	500	Yes	No	-	-	-
1	→100	10	Yes	No	-	-	-
1	→100	10	Yes	No	-	-	-
5	→100	50	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
15	→100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 4 samples. Arsenic/Atrazine/ Simazine/ Zinc mean of 3 samples. Cyanide/Methylene Chloride/Toluene/ Xylene mean of 2 samples.

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Table B2: River Water Quality Standards to be achieved by 2010 DELVIN (08/D/01)

Local Authority Name		FINGAL CO. COUNCIL			Measures Report Year	
River Name	River Code	Monitoring Station Code	Station Location Name	Grid Reference	Dangerous Substances	31 st July '05-31 st Aug '06
Delvin	08/D/01	0080	Bridge W of Naul		Arsenic	
					Atrazine	
					Chromium	<2
					Copper	5
					Cyanide	
					Fluoride	124
					Lead	4
					Methylene Chloride	
					Nickel	<6
					Simazine	
					Toluene	
					Xylene	
					Zinc	

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO3) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 10(b) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle source of Pollution?	If there is an identifiable source, please state details
1	→100	25	Yes	No			
<1	→100	1.0	Yes	No			
<1	→100	30	Yes	No			
3	→100	30	Yes	No			
3	→100	10	Yes	No			
198	→100	500	Yes	No			
2	→100	10	Yes	No			
<1	→100	10	Yes	No			
2	→100	50	Yes	No			
<1	→100	1.0	Yes	No			
<1	→100	10	Yes	No			
<1	→100	10	Yes	No			
10	→100	100	Yes	No			

Note (1): Heavy metals mean of 4 samples.

Chromium mean of 3 samples.

Table B3: River Water Quality Standards to be achieved by 2010 DELVIN (08/D/01)

Local Authority Name	River Name	River Code	Monitoring Station Code	Station Name	Station Location	Grid Reference	Dangerous Substances	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO3) (where applicable)	31 st July 04-31 st July '05	Baseline Quality Satisfactory?
FINGAL CO. COUNCIL	Delvin	08/D/01	0250	Bridge NW Forty Acres			Arsenic	-	→ 100	→ 100	-
							Atrazine	-	→ 100	→ 100	-
							Chromium	<2	→ 100	→ 100	Yes
							Copper	5	→ 100	→ 100	Yes
							Cyanide	-	→ 100	→ 100	-
							Fluoride	122	→ 100	→ 100	Yes
							Lead	4	→ 100	→ 100	Yes
							Methylene Chloride	-	→ 100	→ 100	-
							Nickel	<6	→ 100	→ 100	Yes
							Simazine	-	→ 100	→ 100	-
							Toluene	-	→ 100	→ 100	-
							Xylene	-	→ 100	→ 100	-
							Zinc	-	→ 100	→ 100	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO3) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(6) Extension Apply?	Yes/What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	If there is an identifiable Source please give details
1	→ 100	25	Yes	No	-	-	-
<1	→ 100	1.0	Yes	No	-	-	-
<2	→ 100	30	Yes	No	-	-	-
<5	→ 100	30	Yes	No	-	-	-
5	→ 100	10	Yes	No	-	-	-
<4	→ 100	500	Yes	No	-	-	-
1	→ 100	10	Yes	No	-	-	-
1	→ 100	10	Yes	No	-	-	-
5	→ 100	50	Yes	No	-	-	-
<1	→ 100	1.0	Yes	No	-	-	-
<1	→ 100	10	Yes	No	-	-	-
<1	→ 100	10	Yes	No	-	-	-
18	→ 100	100	Yes	No	-	-	-

Note (1) : Heavy metals mean of 4 samples.

Arsenic/Zinc mean of 3 samples.

Atrazine/Cyanide/Methylene Chloride/Simazine/Toluene/Xylene mean of 2 samples.

Table B4: River Water Quality Standards to be achieved by 2010 DELVIN [08/D/01]

Local Authority Name	River Name	River Code	FINGAL CC. COUNCIL			Measures Report Year		Baseline Condition (µg/l)	Water Hardness (mg/l CaCO3) (Where applicable)	Baseline Quality Satisfactory?
			Monitoring Station Code	Station Name	Grid Reference	Dangerous Substance	31 st July '05-31 st Aug '06			
Delvin	08/D/01	0250	Bridge NW	Forty Acres		Arsenic	-	→100	-	
						Atrazine	-	→100	-	
						Chromium	<2	→100	Yes	
						Copper	5	→100	Yes	
						Cyanide	-	→100	-	
						Fluoride	122	→100	Yes	
						Lead	4	→100	Yes	
						Methylene Chloride	-	→100	-	
						Nickel	<6	→100	Yes	
						Simazine	-	→100	-	
						Toluene	-	→100	-	
						Xylene	-	→100	-	
						Zinc	22	→100	Yes	

(Continued)

Current Condition (µg/l) Note (n)	Water Hardness (mg/l CaCO3) (Where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard been Achieved?	Does Article 13(6) Extension Apply?	Yes/What is the Revised Compliance Date?	Where Quality Unsatisfactory, What is the Principal Source of Pollution?	If the Result is identifiable Source, please give details
1	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	30	Yes	No	-	-	-
<2	→100	30	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
157	→100	500	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<2	→100	50	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
22	→100	100	Yes	No	-	-	-

Note (1) Heavy metals mean of 4 samples.

Table B5: River Water Quality Standards to be achieved by 2010 DELVIN (08/D/01)

Local Authority Name	River Name	River Code	Monitoring Station Code	Station Location Name	Ground Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
FINGAL CO. COUNCIL	08/D/01	0400	Bridge Bridgetfort Hse			Arsenic	-	→100	-
						Atrazine	-	→100	-
						Chromium	<2	→100	Yes
						Copper	5	→100	Yes
						Cyanide	-	→100	-
						Fluoride	122	→100	Yes
						Lead	4	→100	Yes
						Methylene Chloride	-	→100	-
						Nickel	<6	→100	Yes
						Simazine	-	→100	-
						Toluene	-	→100	-
						Xylene	-	→100	-
						Zinc	22	→100	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 19 Apply?	Yes/What is the Revised Compliance Date?	Where is the Principal Source of Pollution?	Is the Source identifiable? (If not, please provide details)
1	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<2	→100	30	Yes	No	-	-	-
<5	→100	30	Yes	No	-	-	-
5	→100	10	Yes	No	-	-	-
3	→100	500	Yes	No	-	-	-
1	→100	10	Yes	No	-	-	-
1	→100	10	Yes	No	-	-	-
<5	→100	50	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
11	→100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 4 samples. Arsenic/Atrazine/Simazine/Zinc mean of 3 samples. Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

Table B6: River Water Quality Standards to be achieved by 2010 DELVIN [08/D/01]

Local Authority Name		FINGAL CO. COUNCIL			Measures Report Year	
River Name	River Code	Monitoring Station Code	Station Name	Station Location	Grid Reference	Dangerous Substance
Delvin	08/D/01	0400	Bridge	Bridgefort		Arsenic
			Hse			
						Atrazine
						Chromium
						Copper
						Cyanide
						Fluoride
						Lead
						Methylene Chloride
						Nickel
						Simazine
						Toluene
						Xylene
						Zinc

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3 (9) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where Quality Unsatisfactory, What is the Principle Source of Pollution?	If there is an identifiable Source, please enter details
1	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	30	Yes	No	-	-	-
<3	→100	30	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
193	→100	500	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<2	→100	50	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
11	→100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 4 samples.

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Table B7: River Water Quality Standards to be achieved by 2010 **BALLOUGH [08/B/03]**

Local Authority Name		FINGAL CO. COUNCIL				Measures Report Year		31st July 04-31st July 05	
River Name	River Code	Monitoring Station Code	Station Location Name	Grid Reference	Dangerous Substances	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO3) (Where applicable)	Baseline Quality Satisfaction?	Baseline Quality Satisfaction?
Ballogh	08/B/03	1400	Bridge W of 5 Roads		Arsenic				
					Atrazine				
					Chromium	<2		Yes	
					Copper	5		Yes	
					Cyanide				
					Fluoride	122		Yes	
					Lead	4		Yes	
					Methylene Chloride				
					Nickel	<6		Yes	
					Simazine				
					Toluene				
					Xylene				
					Zinc				Yes

(Continued)

Current Condition (µg/l) Note (1)	Water Hardness (mg/l CaCO3) (Where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle source of Pollution?	If there is an identifiable source, please enter details
1	>100	25	Yes	No			
<1	>100	1.0	Yes	No			
<2	>100	30	Yes	No			
5	>100	30	Yes	No			
5	>100	10	Yes	No			
4	>100	500	Yes	No			
1	>100	10	Yes	No			
1	>100	10	Yes	No			
5	>100	50	Yes	No			
<1	>100	1.0	Yes	No			
<1	>100	10	Yes	No			
<1	>100	10	Yes	No			
11	>100	100	Yes	No			

Note (1): Heavy metals mean of 4 samples. Arsenic/Zinc mean of 3 samples. Atrazine/Cyanide/Methylene Chloride/Simazine/Toluene/Xylene mean of 2 samples.

Table B8: River Water Quality Standards to be achieved by 2010 BALLOUGH [08/B/03]

Local Authority Name		FINGAL CO. COUNCIL			Measures Report Year		31 st July '05-31 st Aug '06		
River Name	River Code	Monitoring Station Code	Station Name	Station Location	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Is Baseline Quality Satisfactory?
Balough	08/B/03	1400	Bridge W of 5 Roads			Arsenic	-	-	-
						Atrazine	-	-	-
						Chromium	<2	-	Yes
						Copper	5	-	Yes
						Cyanide	-	-	-
						Fluoride	122	-	Yes
						Lead	4	-	Yes
						Methylene Chloride	-	-	-
						Nickel	<6	-	Yes
						Simazine	-	-	-
						Toluene	-	-	-
						Xylene	-	-	-
						Zinc	22	-	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	When is Quality Unsatisfactory? (What is the Principle source of Pollution?)	If there is an identifiable source, please enter details
1	>100	25	Yes	No	-	-	-
<1	>100	1.0	Yes	No	-	-	-
<3	>100	30	Yes	No	-	-	-
36	>100	30	No	No	-	-	-
3	>100	10	Yes	No	-	-	-
220	>100	500	Yes	No	-	-	-
<6	>100	10	Yes	No	-	-	-
<1	>100	10	Yes	No	-	-	-
12	>100	50	Yes	No	-	-	-
<1	>100	1.0	Yes	No	-	-	-
<1	>100	10	Yes	No	-	-	-
<1	>100	10	Yes	No	-	-	-
37	>100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 4 samples.

Table B9: River Water Quality Standards to be achieved by 2010 BALLOUGH [08/B/03]

Local Authority Name		FINGAL CO. COUNCIL				Measures Reported as of			
River Name	River Code	Monitoring Station Code	Station Location Name	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Is Baseline Quality Satisfactory?	31 st July '04-31 st July '05
Balough	08/B/03	1600	Corduff Bridge	-	Arsenic	-	-	-	-
					Atrazine	-	-	-	-
					Chromium	<2	-	Yes	-
					Copper	5	-	Yes	-
					Cyanide	-	-	-	-
					Fluoride	122	-	Yes	-
					Lead	4	-	Yes	-
					Methylene Chloride	-	-	-	-
					Nickel	<6	-	Yes	-
					Simazine	-	-	-	-
					Toluene	-	-	-	-
					Xylene	-	-	-	-
					Zinc	22	-	Yes	-

(Continued)

Current Condition (µg/l)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where is the Unsatisfactory Water Quality Principle Source?	What is the Pollution?	If there is an identifiable source, please enter details
1	25	Yes	No	-	-	-	-
<1	1.0	Yes	No	-	-	-	-
<2	30	Yes	No	-	-	-	-
<5	30	Yes	No	-	-	-	-
5	10	Yes	No	-	-	-	-
4	500	Yes	No	-	-	-	-
1	10	Yes	No	-	-	-	-
1	10	Yes	No	-	-	-	-
5	50	Yes	No	-	-	-	-
<1	1.0	Yes	No	-	-	-	-
<1	10	Yes	No	-	-	-	-
<1	10	Yes	No	-	-	-	-
22	100	Yes	No	-	-	-	-

Note (1): Heavy metals mean of 4 samples. Arsenic/Zinc mean of 3 samples. Atrazine/Cyanide/Methylene Chloride/Simazine/Toluene/Xylene mean of 2 samples.

Table B10: River Water Quality Standards to be achieved by 2010 **BALLOUGH (08/B/03)**

Local Authority Name	FINGAL CO. COUNCIL	Waters Report Year	31 st July '05-31 st Aug '06				
River Name	River Code	Monitoring Station Code	Station Location Name	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (Where applicable)	Baseline Quality Satisfactory?
Balldough	08/B/03	1600	Corduff Bridge	Arsenic	-	-	-
				Atrazine	-	-	-
				Chromium	<2	-	Yes
				Copper	5	-	Yes
				Cyanide	-	-	-
				Fluoride	122	-	Yes
				Lead	4	-	Yes
				Methylene Chloride	-	-	-
				Nickel	<6	-	Yes
				Simazine	-	-	-
				Toluene	-	-	-
				Xylene	-	-	-
				Zinc	22	-	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (Where applicable)	Standard to be Achieved by 2010 (µg/l)	Standard has been Achieved?	Does Article 3(9) Extension Apply?	Yes/What is the Revised compliance Date	Where is the Unsatisfactory Water Quality? (Principle sources of Pollution?)	If there is an identifiable Source please enter details
1	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	30	Yes	No	-	-	-
<5	→100	30	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
227	→100	500	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<3	→100	50	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
22	→100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 4 samples.

Table B11: River Water Quality Standards to be achieved by 2010 BALLYBOGHILL [08/B/01]

Local Authority Name		FINGAL CO. COUNCIL		Measures Reported Yes		31 st July '04 - 31 st July '05		
River Name	River Code	Monitoring Station Code	Station Location Name	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Is Baseline Quality Satisfactory?
Ballyboghill	08/B/01	1900	Bridge S Traillie Lodge		Arsenic	-	→ 100	-
					Atrazine	-	→ 100	-
					Chromium	<-2	→ 100	Yes
					Copper	5	→ 100	Yes
					Cyanide	-	→ 100	-
					Fluoride	122	→ 100	Yes
					Lead	4	→ 100	Yes
					Methylene Chloride	-	→ 100	-
					Nickel	<-6	→ 100	Yes
					Simazine	-	→ 100	-
					Toluene	-	→ 100	-
					Xylene	-	→ 100	-
					Zinc	22	→ 100	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 13(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	What is the Unsatisfactory Principle Source of Pollution?	If there is an identifiable Source please enter details
1	→ 100	25	Yes	No	-	-	-
<-1	→ 100	1.0	Yes	No	-	-	-
<-2	→ 100	30	Yes	No	-	-	-
6	→ 100	30	Yes	No	-	-	-
5	→ 100	10	Yes	No	-	-	-
3	→ 100	500	Yes	No	-	-	-
<-2	→ 100	10	Yes	No	-	-	-
<-6	→ 100	10	Yes	No	-	-	-
6	→ 100	50	Yes	No	-	-	-
<-1	→ 100	1.0	Yes	No	-	-	-
<-1	→ 100	10	Yes	No	-	-	-
<-1	→ 100	10	Yes	No	-	-	-
20	→ 100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 4 samples.

Arsenic/Atrazine/Simazine mean of 3 samples.

Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

Table B12: River Water Quality Standards to be achieved by 2010 BALLYBOGHILL [08/B/01]

Local Authority Name	FINGAL CO. COUNCIL	Measures Report Year	31 st July '05-31 st Aug '06					
River Name	River Code	Monitoring Station Code	Station/Location Name	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Is Baseline Quality Satisfactory?
Ballyboghill	08/B/01	1900	Bridge S Traillie Lodge		Arsenic	-	→100	-
					Atrazine	-	→100	-
					Chromium	←2	→100	Yes
					Copper	5	→100	Yes
					Cyanide	-	→100	-
					Fluoride	122	→100	Yes
					Lead	4	→100	Yes
					Methylene Chloride	-	→100	-
					Nickel	←6	→100	Yes
					Simazine	-	→100	-
					Toluene	-	→100	-
					Xylene	-	→100	-
					Zinc	-	→100	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	If there is an identifiable source, please enter details.
1	→100	25	Yes	No	-	-	-
←1	→100	1.0	Yes	No	-	-	-
←1	→100	30	Yes	No	-	-	-
←3	→100	30	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
153	→100	500	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
←1	→100	10	Yes	No	-	-	-
1	→100	50	Yes	No	-	-	-
←1	→100	1.0	Yes	No	-	-	-
←1	→100	10	Yes	No	-	-	-
←1	→100	10	Yes	No	-	-	-
26	→100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 4 samples. Fluoride mean of 3 samples.

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Table B13: River Water Quality Standards to be achieved by 2010 BALLYBOGHILL [08/B/01]

Local Authority Name		FINGAL CO. COUNCIL			Measures Report Year			
River Name	River Code	Monitoring Station Code	Station Location Name	Grid Reference	Dangerous Substance	31 st July '04-31 st July '05		
	Water Hardness (mg/l CaCO ₃) (Where applicable)	Standard Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(6) Extension Apply?	Yes/What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Cause of Pollution?	Is Baseline Quality Satisfactory? (Where applicable)	
Ballyboghill	08/B/01	2200	Bridge in Ballyboghill		Arsenic	-	→ 100	-
					Atrazine	-	→ 100	-
					Chromium	< 2	→ 100	Yes
					Copper	5	→ 100	Yes
					Cyanide	-	→ 100	-
					Fluoride	122	→ 100	Yes
					Lead	4	→ 100	Yes
					Methylene Chloride	-	→ 100	-
					Nickel	< 6	→ 100	Yes
					Simazine	-	→ 100	-
					Toluene	-	→ 100	-
					Xylene	-	→ 100	-
					Zinc	-	→ 100	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (Where applicable)	Standard Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(6) Extension Apply?	Yes/What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Cause of Pollution?	Where Quality is Unsatisfactory, What is the Principle Cause of Pollution?	Is Baseline Quality Satisfactory? (Where applicable)
1	→ 100	25	Yes	No	-	-	-	-
< 1	→ 100	1.0	Yes	No	-	-	-	-
2	→ 100	30	Yes	No	-	-	-	-
7	→ 100	30	Yes	No	-	-	-	-
5	→ 100	10	Yes	No	-	-	-	-
< 6	→ 100	500	Yes	No	-	-	-	-
2	→ 100	10	Yes	No	-	-	-	-
< 6	→ 100	10	Yes	No	-	-	-	-
7	→ 100	50	Yes	No	-	-	-	-
< 1	→ 100	1.0	Yes	No	-	-	-	-
< 1	→ 100	10	Yes	No	-	-	-	-
< 1	→ 100	10	Yes	No	-	-	-	-
15	→ 100	100	Yes	No	-	-	-	-

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Note (1): Heavy metals mean of 4 samples. Arsenic/Atrazine/Fluoride/Simazine mean of 3 samples. Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

Table B14: River Water Quality Standards to be achieved by 2010 BALLYBOGHILL [08/B/01]

Local Authority Name		FINGAL CO. COUNCIL			Measures/Reports Year		31 st July '05-31 st Aug '06	
River Name	River Code	Monitoring Station Code	Station Location Name	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?	
Ballyboghill	08/B/01	2200	Bridge in Ballyboghill	Arsenic	-	>100	-	
				Atrazine	-	>100	-	
				Chromium	<2	>100	Yes	
				Copper	5	>100	Yes	
				Cyanide	-	>100	-	
				Fluoride	122	>100	Yes	
				Lead	4	>100	Yes	
				Methylene Chloride	-	>100	-	
				Nickel	<6	>100	Yes	
				Simazine	-	>100	-	
				Toluene	-	>100	-	
				Xylene	-	>100	-	
				Zinc	2	>100	Yes	

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard been achieved?	Does Article 3(9) Extension Apply?	Does Article 3(9) Extension Apply?	Where Quality Unsatisfactory, What is the Principle Source of Pollution?	Is there a significant identifiable source please enter details
1	>100	25	Yes	No	-	-	-
<1	>100	1.0	Yes	No	-	-	-
<1	>100	30	Yes	No	-	-	-
2	>100	30	Yes	No	-	-	-
3	>100	10	Yes	No	-	-	-
163	>100	500	Yes	No	-	-	-
3	>100	10	Yes	No	-	-	-
<1	>100	10	Yes	No	-	-	-
1	>100	50	Yes	No	-	-	-
<1	>100	1.0	Yes	No	-	-	-
<1	>100	10	Yes	No	-	-	-
<1	>100	10	Yes	No	-	-	-
10	>100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 4 samples. Fluoride/Toluene mean of 3 samples.

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Table B15: River Water Quality Standards to be achieved by 2010 BROADMEADOW [08/B/02]

Local Authority Name	Monitoring Station Code	Monitoring Station Name	Station Location	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
Broadmeadow W.	08/B/02	0600	WSW Fieldstown House		Arsenic	-	→ 100	-
					Atrazine	-	→ 100	-
					Chromium	< 2	→ 100	Yes
					Copper	5	→ 100	Yes
					Cyanide	-	→ 100	-
					Fluoride	122	→ 100	Yes
					Lead	4	→ 100	Yes
					Methylene Chloride	-	→ 100	-
					Nickel	< 6	→ 100	Yes
					Simazine	-	→ 100	-
					Toluene	-	→ 100	-
					Xylene	-	→ 100	-
					Zinc	22	→ 100	Yes

(Continued)

Current Condition (µg/l) (Note 1)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Apply?	Yes/What is the Revised Compliance Date?	Where Quality Unsatisfactory, What is the Principle Source of Pollution?	Where an Identifiable Source, please enter details
1	→ 100	25	Yes	No	-	-	-
< 1	→ 100	1.0	Yes	No	-	-	-
2	→ 100	30	Yes	No	-	-	-
10	→ 100	30	Yes	No	-	-	-
5	→ 100	10	Yes	No	-	-	-
4	→ 100	500	Yes	No	-	-	-
4	→ 100	10	Yes	No	-	-	-
< 6	→ 100	10	Yes	No	-	-	-
< 9	→ 100	50	Yes	No	-	-	-
< 1	→ 100	1.0	Yes	No	-	-	-
< 1	→ 100	10	Yes	No	-	-	-
< 1	→ 100	10	Yes	No	-	-	-
42	→ 100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 4 samples. Arsenic/Atrazine/Simazine mean of 3 samples. Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

Table B16: River Water Quality Standards to be achieved by 2010 BROADMEADOW [08/B/02]

Local Authority Name	FINGAL CC. COUNCIL			Measures Report Year	31 st July '05-31 st Aug '06			
River Name	River Code	Monitoring Station Name	Station Location	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Is Baseline Quality Satisfactory?
Broadmeadow	08/B/02	0600	WSW Fieldstown House		Arsenic			
					Atrazine			
					Chromium	<2		Yes
					Copper	5		Yes
					Cyanide			
					Fluoride	122		Yes
					Lead	4		Yes
					Methylene Chloride			
					Nickel	<6		Yes
					Simazine			
					Toluene			
					Xylene			
					Zinc	22		Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(5) Apply?	If Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	If there is an identifiable source, please enter details
1	→100	25	Yes	No			
<1	→100	1.0	Yes	No			
<1	→100	30	Yes	No			
2	→100	30	Yes	No			
3	→100	10	Yes	No			
173	→100	500	Yes	No			
3	→100	10	Yes	No			
<1	→100	10	Yes	No			
<3	→100	50	Yes	No			
<1	→100	1.0	Yes	No			
<1	→100	10	Yes	No			
<1	→100	10	Yes	No			
18	→100	100	Yes	No			

Note (1): Heavy metals mean of 4 samples. Fluoride mean of 3 samples.

Table B17: River Water Quality Standards to be achieved by 2010 BROADMEADOW [08/B/02]

Local Authority Name	FINGAL CO. COUNCIL		Measures Report Year	31st July 04-31st July 05			
River Name	River Code	Monitoring Station Name	Station Location	Dangerous Substance	Base Line Condition (µg/l)	Water Hardness (mg/l CaCO3) (where applicable)	Is Base Line Quality Satisfactory?
Broadmeadow	08/B/02	0700	Lispopple Bridge	Arsenic	-	→ 100	-
				Atrazine	-	→ 100	-
				Chromium	< 2	→ 100	Yes
				Copper	5	→ 100	Yes
				Cyanide	-	→ 100	-
				Fluoride	122	→ 100	Yes
				Lead	4	→ 100	Yes
				Methylene Chloride	-	→ 100	-
				Nickel	< 6	→ 100	Yes
				Simazine	-	→ 100	-
				Toluene	-	→ 100	-
				Xylene	-	→ 100	-
				Zinc	2	→ 100	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO3) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 30 Extension Apply?	Yes/What is the Revised Compliance Date?	Where is the Unsatisfactory Principle source of Pollution?	If there is identifiable source please enter details
1	→ 100	25	Yes	No	-	-	-
< 1	→ 100	1.0	Yes	No	-	-	-
2	→ 100	30	Yes	No	-	-	-
< 10	→ 100	30	Yes	No	-	-	-
5	→ 100	10	Yes	No	-	-	-
4	→ 100	500	Yes	No	-	-	-
3	→ 100	10	Yes	No	-	-	-
< 6	→ 100	10	Yes	No	-	-	-
8	→ 100	50	Yes	No	-	-	-
< 1	→ 100	1.0	Yes	No	-	-	-
< 1	→ 100	10	Yes	No	-	-	-
< 1	→ 100	10	Yes	No	-	-	-
26	→ 100	100	Yes	No	-	-	-

Note (1) Heavy metals mean of 4 samples.

Arsenic/Atrazine/Simazine mean of 3 samples.

Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

Table B18: River Water Quality Standards to be achieved by 2010 BROADMEADOW [08/B/02]

Local Authority Name	FINGAL CO. COUNCIL	Measures Report Year	31 st July '05-31 st Aug '06
River Name	Monitoring Station Name	Station Location	Dangerous Substance
River Code	Monitoring Station Code	Reference Code	Base Line Condition (ug/l)
Water Hardness (mg/l CaCO3 where applicable)	Station Code	Dangerous Substance	Water Hardness (mg/l CaCO3 where applicable)
→100	0700	Lispapple Bridge	Arsenic
→100			Atrazine
→100			Chromium
→100			Copper
→100			Cyanide
→100			Fluoride
→100			Lead
→100			Methylene Chloride
→100			Nickel
→100			Simazine
→100			Toluene
→100			Xylene
→100			Zinc

(Continued)

Current Condition (ug/l)	Standard Achieved by 2010 (ug/l)	Has Standard Been Achieved?	Does Article 3(6) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where is the Unsatisfactory Principle Source of Pollution?	If there is an identifiable source please enter details
1	25	Yes	No			
<1	1.0	Yes	No			
<1	30	Yes	No			
2	30	Yes	No			
3	10	Yes	No			
173	500	Yes	No			
3	10	Yes	No			
<1	10	Yes	No			
<3	50	Yes	No			
<1	1.0	Yes	No			
<1	10	Yes	No			
<1	10	Yes	No			
18	100	Yes	No			

Note (1): Heavy metals mean of 4 samples. Fluoride mean of 3 samples.

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Table B19: River Water Quality Standards to be achieved by 2010 BROADMEADOW (08/B/02)

Local Authority Name		FINGAL CO. COUNCIL			Measures Report Year	
River Name	River Code	Monitoring Station Code	Station Name	Station Location	Grid Reference	Dangerous Substance
Broadmeadow	08/B/02	0800	Bridge near Waterworks			Arsenic
						Atrazine
						Chromium
						Copper
						Cyanide
						Fluoride
						Lead
						Methylene Chloride
						Nickel
						Simazine
						Toluene
						Xylene
						Zinc

(Continued)

Current Condition [µg/l]	Water Hardness (mg/l CaCO3) (Where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	What Quality is Unsatisfactory? What is the Principle source of Pollution?	If there is an identifiable source please enter details
1	→ 100	25	Yes	No			
< 1	→ 100	1.0	Yes	No			
2	→ 100	30	Yes	No			
9	→ 100	30	Yes	No			
5	→ 100	10	Yes	No			
4	→ 100	500	Yes	No			
4	→ 100	10	Yes	No			
< 6	→ 100	10	Yes	No			
8	→ 100	50	Yes	No			
< 1	→ 100	1.0	Yes	No			
< 1	→ 100	10	Yes	No			
< 1	→ 100	10	Yes	No			
26	→ 100	100	Yes	No			

Note (1): Heavy metals based on mean of 4 samples. Arsenic/Atrazine/Simazine mean of 3 samples. Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

Table B20: River Water Quality Standards to be achieved by 2010 BROADMEADOW (08/B/02)

Local Authority Name		FINGAL CO. COUNCIL				Measures Reported		31 st July 05-31 st Aug '06	
River Name	River Code	Monitoring Station Code	Station Name	Station Location	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Is Baseline Quality Satisfactory?
Broadmeadow	08/B/02	0800	Bridge near Waterworks			Arsenic	-		-
						Atrazine	-		-
						Chromium	<2		Yes
						Copper	5		Yes
						Cyanide	-		-
						Fluoride	122		Yes
						Lead	4		Yes
						Methylene Chloride	-		-
						Nickel	<6		Yes
						Simazine	-		-
						Toluene	-		-
						Xylene	-		-
						Zinc	-		Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	If there is an identifiable source please enter details
1	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	30	Yes	No	-	-	-
4	→100	30	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
193	→100	500	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
27	→100	50	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
12	→100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 4 samples. Fluoride mean of 3 samples.

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Table B21: River Water Quality Standards to be achieved by 2010 WARD_108/W/01

Local Authority Name		FINGAL CO. COUNCIL			Measures/Report Year		31 st July '04-31 st July '05		
River Name	River Code	Monitoring Station Code	Station Name	Station Location	Guidance Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
Ward	08/W/01	0070	Coolrath Bridge		-	Arsenic	-	→100	-
					-	Atrazine	-	→100	-
					-	Chromium	<2	→100	Yes
					-	Copper	5	→100	Yes
					-	Cyanide	-	→100	-
					-	Fluoride	122	→100	Yes
					-	Lead	4	→100	Yes
					-	Methylene Chloride	-	→100	-
					-	Nickel	<6	→100	Yes
					-	Simazine	-	→100	-
					-	Toluene	-	→100	-
					-	Xylene	-	→100	-
					-	Zinc	22	→100	Yes

(Continued)

Current Condition (µg/l)	Standard to be Achieved by 2010 (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Has Standard Been Achieved?	Does Article 13(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	What is the Unsatisfactory Principle source or Pollution?	If there is an identifiable source please enter details
1	25	→100	Yes	No	-	-	-
<1	1.0	→100	Yes	No	-	-	-
1	30	→100	Yes	No	-	-	-
7	30	→100	Yes	No	-	-	-
5	10	→100	Yes	No	-	-	-
<1	500	→100	Yes	No	-	-	-
2	10	→100	Yes	No	-	-	-
1	10	→100	Yes	No	-	-	-
5	50	→100	Yes	No	-	-	-
<1	1.0	→100	Yes	No	-	-	-
<1	10	→100	Yes	No	-	-	-
<1	10	→100	Yes	No	-	-	-
16	100	→100	Yes	No	-	-	-

Note (1): Heavy metals mean of 3 samples.

Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

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Table B22: River Water Quality Standards to be achieved by 2010 WARD [08/W/01]

Local Authority Name	FINGAL CO. COUNCIL	Measures Report Year	31 st July '05-31 st Aug '06						
River Name	River Code	Monitoring Station Code	Station Name	Station Location	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (Where applicable)	Baseline Quality Satisfactory?
Ward	08/W/01	0070	Coolrath Bridge			Arsenic	-	→100	-
						Atrazine	-	→100	-
						Chromium	←2	→100	Yes
						Copper	5	→100	Yes
						Cyanide	-	→100	-
						Fluoride	122	→100	Yes
						Lead	4	→100	Yes
						Methylene Chloride	-	→100	-
						Nickel	←6	→100	Yes
						Simazine	-	→100	-
						Toluene	-	→100	-
						Xylene	-	→100	-
						Zinc	-	→100	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Yes/What is the Revised Compliance Date?	Where Quality is Unsatisfactory/What is the Principle Source of Pollution?	If there is an identifiable Source please enter details
1	→100	25	Yes	No	-	-	-
←2	→100	1.0	No	No	-	-	-
←1	→100	30	Yes	No	-	-	-
←5	→100	30	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
130	→100	500	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
←1	→100	10	Yes	No	-	-	-
2	→100	50	Yes	No	-	-	-
←1	→100	1.0	Yes	No	-	-	-
←1	→100	10	Yes	No	-	-	-
←1	→100	10	Yes	No	-	-	-
23	→100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 4 samples.

Table B23: River Water Quality Standards to be achieved by 2010 WARD [08/W/01]

Local Authority Name	FINGAL CO. COUNCIL			Measures Report Year	31 st July '04-31 st July '05			
River Name	River Code	Monitoring Station Name	Station Location Name	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Is Baseline Quality Satisfactory?
Ward	08/W/01	0300	Br. N. of Killeek	-	Arsenic	-	-	-
					Atrazine	-	-	-
					Chromium	<2	-	Yes
					Copper	5	-	Yes
					Cyanide	-	-	-
					Fluoride	122	-	Yes
					Lead	4	-	Yes
					Methylene Chloride	-	-	-
					Nickel	<6	-	Yes
					Simazine	-	-	-
					Toluene	-	-	-
					Xylene	-	-	-
					Zinc	-	-	Yes

(Continued)

Current Condition (µg/l) Note (1)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved (2010) (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where is it Unsatisfactory, What is the Principle Source of Pollution?	If it is identifiable Source please enter details
1	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
1	→100	30	Yes	No	-	-	-
4	→100	30	Yes	No	-	-	-
5	→100	10	Yes	No	-	-	-
<1	→100	500	Yes	No	-	-	-
2	→100	10	Yes	No	-	-	-
4	→100	10	Yes	No	-	-	-
5	→100	50	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
21	→100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 3 samples. Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

Table B24: River Water Quality Standards to be achieved by 2010 WARD [08/W/01]

Local Authority Name	FINGAL CO. COUNCIL	Measuring Report Year	31 st July '05-31 st Aug '06
River Name	River Code	Monitoring Station Name	Station Location
Monitoring Station Code	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)
Baseline Quality Satisfactory?	Baseline Quality Satisfactory?	Baseline Quality Satisfactory?	Baseline Quality Satisfactory?
Ward	08/W/01	0300	Br. N. of Killeek
			Arsenic
			Atrazine
			Chromium
			Copper
			Cyanide
			Fluoride
			Lead
			Methylene Chloride
			Nickel
			Simazine
			Toluene
			Xylene
			Zinc

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Yes/What is the Revised Compliance Date?	Where is the Unsatisfactory Quality? (What is the Principal Source of Pollution?)	If there is an identifiable source please enter details
1	→100	25	Yes	No	-	-	-
←1	→100	1.0	Yes	No	-	-	-
←1	→100	30	Yes	No	-	-	-
4	→100	30	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
220	→100	500	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
←1	→100	10	Yes	No	-	-	-
3	→100	50	Yes	No	-	-	-
←1	→100	1.0	Yes	No	-	-	-
←1	→100	10	Yes	No	-	-	-
←1	→100	10	Yes	No	-	-	-
25	→100	100	Yes	No	-	-	-

Note (1) Heavy metals mean of 4 samples.

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Table B27: River Water Quality Standards to be achieved by 2010 MAYNE [09/M/03]

Local Authority Name	FINGAL CO. COUNCIL		Measures Report Year	31 st July '04-31 st July '05				
River Name	River Code	Monitoring Station Name	Station Code	Station Location	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Is Baseline Quality Satisfactory?
Mayne	09/M/03	Hole in Wall Rd. Bridge	0500		Arsenic	-	-	-
					Atrazine	-	-	-
					Chromium	<-2	-	Yes
					Copper	5	-	Yes
					Cyanide	-	-	-
					Fluoride	122	-	Yes
					Lead	4	-	Yes
					Methylene Chloride	-	-	-
					Nickel	<-6	-	Yes
					Simazine	-	-	-
					Toluene	-	-	-
					Xylene	-	-	-
					Zinc	20	-	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) where applicable	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(b) Extension Apply?	If Yes What is the Revised Compliance Date?	When is the Unsatisfactory Principle Source of Pollution?	Is the Source identifiable?
1	→100	25	Yes	No	-	-	-
<-1	→100	1.0	Yes	No	-	-	-
<-2	→100	30	Yes	No	-	-	-
6	→100	30	Yes	No	-	-	-
5	→100	10	Yes	No	-	-	-
<-1	→100	500	Yes	No	-	-	-
<-2	→100	10	Yes	No	-	-	-
1	→100	10	Yes	No	-	-	-
5	→100	50	Yes	No	-	-	-
<-1	→100	1.0	Yes	No	-	-	-
<-1	→100	10	Yes	No	-	-	-
<-1	→100	10	Yes	No	-	-	-
29	→100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 3 samples. Copper/Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

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Table B28: River Water Quality Standards to be achieved by 2010 MAYNE [09/M/03]

Local Authority Name	FINGAL CO. COUNCIL		Measurement Year	31 st July '05-31 st Aug '06			
River Name	River Code	Monitoring Station Name (Code)	Station Location	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Is Baseline Quality Satisfactory?
Mayne	09/M/03	0500	Hole in Wall Rd. Bridge	Arsenic	-	-	-
				Atrazine	-	-	-
				Chromium	<2	-	Yes
				Copper	5	-	Yes
				Cyanide	-	-	-
				Fluoride	122	-	Yes
				Lead	4	-	Yes
				Methylene Chloride	-	-	-
				Nickel	<6	-	Yes
				Simazine	-	-	-
				Toluene	-	-	-
				Xylene	-	-	-
				Zinc	22	-	Yes

(Continued)

Current Condition (µg/l) Note (1)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standards Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 39 Extension Apply?	What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	Is the Source Identifiable? (Source please enter details)
1	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	30	Yes	No	-	-	-
<6	→100	30	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
313	→100	500	Yes	No	-	-	-
<4	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
2	→100	50	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
36	→100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 4 samples.

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Table B29: River Water Quality Standards to be achieved by 2010 PINKEEN [09/P/02]

Local Authority Name		FINGAL CO. COUNCIL			Measures Reported Yes		31 st July '04 - 31 st July '05		
River Name	River Code	Monitoring Station Code	Station Name	Station Location	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Is Baseline Quality Satisfactory?
Pinkeen	06/W/01	0070	Bridge SE of Powerstown House			Arsenic	-		-
						Atrazine	-		-
						Chromium	<2		Yes
						Copper	5		Yes
						Cyanide	-		-
						Fluoride	122		Yes
						Lead	4		Yes
						Methylene Chloride	-		-
						Nickel	<6		Yes
						Simazine	-		-
						Toluene	-		-
						Xylene	-		-
						Zinc	2		Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does A (Official) or B (Extension) Apply?	Yes/What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle source of Pollution?	If there is an identifiable source, please enter details
1	→100	25	Yes	No	-	-	-
<2	→100	1.0	No	No	-	-	-
<2	→100	30	Yes	No	-	-	-
<6	→100	30	Yes	No	-	-	-
5	→100	10	Yes	No	-	-	-
<4	→100	500	Yes	No	-	-	-
<2	→100	10	Yes	No	-	-	-
1	→100	10	Yes	No	-	-	-
5	→100	50	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
13	→100	100	Yes	No	-	-	-

Note (1) : Heavy metals mean of 4 samples. Arsenic/Atrazine/Lead/Simazine mean of 3 samples. Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

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Table B30: River Water Quality Standards to be achieved by 2010 PINKEEN [09/P/02]

Local Authority Name	FINGAL CO. COUNCIL	Measures Report Year	Station Location	Monitoring Station Code	Station Name	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
Pinkeen	08/W/01	0070	Bridge SE of Powerstown House				Arsenic	-	-	-
							Atrazine	-	-	-
							Chromium	<2	-	Yes
							Copper	5	-	Yes
							Cyanide	-	-	-
							Fluoride	122	-	Yes
							Lead	4	-	Yes
							Methylene Chloride	-	-	-
							Nickel	<6	-	Yes
							Simazine	-	-	-
							Toluene	-	-	-
							Xylene	-	-	-
							Zinc	22	-	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) where applicable	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Yes/What is the Revised Compliance Date?	Where Quality is Unsatisfactory What is the Principle Source of Pollution?	If there is an identifiable source please provide details
1	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	30	Yes	No	-	-	-
<2	→100	30	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
255	→100	500	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
1	→100	50	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
13	→100	100	Yes	No	-	-	-

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Table B31: River Water Quality Standards to be achieved by 2010 TOLKA (09/7/01)

Local Authority Name		FINGAL CO. COUNCIL			Measures Report Year	
River Name	River Code	Monitoring Station Code	Station Name	Grid Reference	Dangerous Substance	31 st July '04-31 st July '05
Mayne	09/7/01	0800	Muthuddart Bridge	-	Arsenic	-
					Atrazine	-
					Chromium	<2
					Copper	5
					Cyanide	-
					Fluoride	122
					Lead	4
					Methylene Chloride	-
					Nickel	<6
					Simazine	-
					Toluene	-
					Xylene	-
					Zinc	-
						Yes

(Continued)

Current Condition (µg/l) Note (1)	Water Hardness (mg/l CaCO3) (Where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	What is the Unsatisfactory What is the Principle Source of Pollution?	If there is an identifiable source, please enter details
1	→ 100	25	Yes	No	-	-	-
<1	→ 100	1.0	Yes	No	-	-	-
2	→ 100	30	Yes	No	-	-	-
6	→ 100	30	Yes	No	-	-	-
5	→ 100	10	Yes	No	-	-	-
<1	→ 100	500	Yes	No	-	-	-
3	→ 100	10	Yes	No	-	-	-
1	→ 100	10	Yes	No	-	-	-
6	→ 100	50	Yes	No	-	-	-
<1	→ 100	1.0	Yes	No	-	-	-
<1	→ 100	10	Yes	No	-	-	-
<1	→ 100	10	Yes	No	-	-	-
19	→ 100	100	Yes	No	-	-	-

Note (1) : Heavy metals mean of 3 samples. Arsenic/Atrazine/Lead/Simazine mean of 2 samples. Cyanide/Methylene Chloride/Toluene/Xylene 1 sample.

Table B32: River Water Quality Standards to be achieved by 2010 TOLKA [09/17/01]

Local Authority Name	FINGAL CO. COUNCIL	Measures Report Year	31 st July '05-31 st Aug '06
River Name	Station Location Name	Monitoring Station Code	Dangerous Substance
River Code	Station Name	Code	Baseline Condition (µg/l)
09/17/01	Mulhuddart Bridge	0800	Arsenic
			Atrazine
			Chromium
			Copper
			Cyanide
			Fluoride
			Lead
			Methylene Chloride
			Nickel
			Simazine
			Toluene
			Xylene
			Zinc

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard been Achieved?	Does Article 3(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principal Source of Pollution?	If there is an identifiable Source, please enter details
1	→100	25	Yes	No			
←1	→100	1.0	Yes	No			
←1	→100	30	Yes	No			
2	→100	30	Yes	No			
3	→100	10	Yes	No			
233	→100	500	Yes	No			
3	→100	10	Yes	No			
←1	→100	10	Yes	No			
←2	→100	50	Yes	No			
←1	→100	1.0	Yes	No			
←1	→100	10	Yes	No			
←1	→100	10	Yes	No			
28	→100	100	Yes	No			

Note (1): Heavy metals mean of 4 samples. Cyanide mean of 3 samples.

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Table B33: River Water Quality Standards to be achieved by 2010 TOLKA (09/T/01)

Local Authority Name:		FINGAL CO. COUNCIL			Measures Reported Yes		31 st July '04-31 st July '05	
River Name	River Code	Monitoring Station Code	Station Name	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/CaCO ₃) (Where applicable)	SB Baseline Quality Satisfactory?
Mayne	09/T/01	1000	Abbotstown Bridge	-	Arsenic	-	→100	-
					Atrazine	-	→100	-
					Chromium	<2	→100	Yes
					Copper	5	→100	Yes
					Cyanide	-	→100	-
					Fluoride	122	→100	Yes
					Lead	4	→100	Yes
					Methylene Chloride	-	→100	-
					Nickel	<6	→100	Yes
					Simazine	-	→100	-
					Toluene	-	→100	-
					Xylene	-	→100	-
					Zinc	-	→100	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/CaCO ₃) (Where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(b) Extension Apply?	Yes/What is the Revised Compliance Date?	Water Quality Satisfactory? What is the Principle source of Pollution?	Difficult to identify Source please enter details
1	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
2	→100	30	Yes	No	-	-	-
7	→100	30	Yes	No	-	-	-
5	→100	10	Yes	No	-	-	-
4	→100	500	Yes	No	-	-	-
2	→100	10	Yes	No	-	-	-
1	→100	10	Yes	No	-	-	-
<6	→100	50	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
19	→100	100	Yes	No	-	-	-

Note (1) : Heavy-metals mean of 4 samples. Arsenic/Atrazine/Chromium/Lead/Simazine mean of 3 samples. Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

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Table B34: River Water Quality Standards to be achieved by 2010 TOLKA (09/11/01)

Local Authority Name	FINGAL CO. COUNCIL		Measures Reported	31 st July '05-31 st Aug '06
River Name	River Code	Monitoring Station Name	Station Location	Dangerous Substance
Mayne	09/T/01	1000	Abbotstown Bridge	Arsenic
				Atrazine
				Chromium
				Copper
				Cyanide
				Fluoride
				Lead
				Methylene Chloride
				Nickel
				Simazine
				Toluene
				Xylene
				Zinc

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO3) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved	Does Article 3(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where Quality Unsatisfactory, What is the Principle source of Pollution?	If there is an identifiable source, please enter details
1	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	30	Yes	No	-	-	-
<3	→100	30	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
250	→100	500	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<2	→100	50	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
36	→100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 4 samples. Cyanide mean of 3 samples.

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Table B35: River Water Quality Standards to be achieved by 2010 HURLEY (08/H/01)

Local Authority Name			FINGAL CO. COUNCIL			Measures Report Year			31 st July '04-31 st July '05		
River Name	River Code	Monitoring Station Code	Station Name	Station Location	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO3) (where applicable)	Baseline Quality Satisfactory?	Water Hardness (mg/l CaCO3) (where applicable)	Baseline Quality Satisfactory?
Hurley	08/H/01	0060	Borranstown			Arsenic	-	→100	-	→100	-
						Atrazine	-	→100	-	→100	-
						Chromium	<2	→100	Yes	→100	Yes
						Copper	5	→100	Yes	→100	Yes
						Cyanide	-	→100	-	→100	-
						Fluoride	122	→100	Yes	→100	Yes
						Lead	4	→100	Yes	→100	Yes
						Methylene Chloride	-	→100	-	→100	-
						Nickel	<6	→100	Yes	→100	Yes
						Simazine	-	→100	-	→100	-
						Toluene	-	→100	-	→100	-
						Xylene	-	→100	-	→100	-
						Zinc	22	→100	-	→100	Yes

(Continued)

Current Condition (µg/l) Note (1)	Water Hardness (mg/l CaCO3) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Yes/What is the Revised Compliance Date?	Water Quality Unsatisfactory? What is the Principle Source of Pollution?	Is the Issue Identifiable? Source please see details
<3	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
2	→100	30	Yes	No	-	-	-
<10	→100	30	Yes	No	-	-	-
5	→100	10	Yes	No	-	-	-
41	→100	500	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
<6	→100	10	Yes	No	-	-	-
<11	→100	50	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
23	→100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 4 samples.

Arsenic/Atrazine/Simazine mean of 3 samples. Cyanide/Toluene/Xylene mean of 2 samples.

Table B36: River Water Quality Standards to be achieved by 2010, HURLEY (08/H/01)

Local Authority Name		FINGAL CO. COUNCIL			Measures Report Year		31 st July '05-31 st Aug '06	
River Name	River Code	Monitoring Station Code	Station Name	Station Location	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Is Baseline Quality Satisfactory?
Hurley	08/H/01	0060	Borranstown		Arsenic	-	→100	-
					Atrazine	-	→100	-
					Chromium	<2	→100	Yes
					Copper	5	→100	Yes
					Cyanide	-	→100	-
					Fluoride	122	→100	Yes
					Lead	4	→100	Yes
					Methylene Chloride	-	→100	-
					Nickel	<6	→100	Yes
					Simazine	-	→100	-
					Toluene	-	→100	-
					Xylene	-	→100	-
					Zinc	20	→100	Yes

(Continued)

Current Condition (µg/l)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 39 Extension Apply?	Yes/What is the Revised Compliance Date?	Where Quality Unsatisfactory, What is the Principal Source of Pollution?	Is the Source Identifiable? (Source measurement details)
1	25	Yes	No	-	-	-
<1	1.0	Yes	No	-	-	-
<1	30	Yes	No	-	-	-
2	30	Yes	No	-	-	-
3	10	Yes	No	-	-	-
155	500	Yes	No	-	-	-
3	10	Yes	No	-	-	-
1	10	Yes	No	-	-	-
2	50	Yes	No	-	-	-
<1	1.0	Yes	No	-	-	-
<1	10	Yes	No	-	-	-
<1	10	Yes	No	-	-	-
175	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 3 samples. Methylene Chloride mean of 3 samples. Fluoride mean of 2 samples.

Table B37: River Water Quality Standards to be achieved by 2010 MILL STREAM

Local Authority Name		FINGAL CO. COUNCIL				Measure Report Year		31 st July '04-31 st July '05	
River Name	River Code	Monitoring Station Code	Station Name	Station Location	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Is Baseline Quality Satisfactory?
Mill Stream	-	-	Baldongan Bridge			Arsenic	-	-	-
						Atrazine	-	-	-
						Chromium	<2	-	Yes
						Copper	5	-	Yes
						Cyanide	-	-	-
						Fluoride	122	-	Yes
						Lead	4	-	Yes
						Methylene Chloride	-	-	-
						Nickel	<6	-	Yes
						Simazine	-	-	-
						Toluene	-	-	-
						Xylene	-	-	-
						Zinc	22	-	Yes

(Continued)

Current Condition Note (1)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Yes/No	What is the Revised Compliance Date?	Where Quality is Unsatisfactory What is the Principle Source of Pollution?	If there is an identifiable Source please enter details
1	→100	25	Yes	No	No	-	-	-
<1	→100	1.0	Yes	No	No	-	-	-
<2	→100	30	Yes	No	No	-	-	-
<5	→100	30	Yes	No	No	-	-	-
5	→100	10	Yes	No	No	-	-	-
<5	→100	500	Yes	No	No	-	-	-
<2	→100	10	Yes	No	No	-	-	-
1	→100	10	Yes	No	No	-	-	-
5	→100	50	Yes	No	No	-	-	-
<1	→100	1.0	Yes	No	No	-	-	-
<1	→100	10	Yes	No	No	-	-	-
<1	→100	10	Yes	No	No	-	-	-
25	→100	100	Yes	No	No	-	-	-

Note (1): Heavy metals mean of 4 samples.

Atrazine/Simazine mean of 3 samples. Cyanide/Toluene/Xylene mean of 2 samples.

Table B39: River Water Quality Standards to be achieved by 2010 MILL STREAM

Local Authority Name		FINGAL CO. COUNCIL			Measures/Report Year		31 st July '04-31 st July '05		
River Name	River Code	Monitoring Station Code	Station Name	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?	
Mill Stream	-	-	Railway Bridge	-	Arsenic	-	-	-	
					Atrazine	-	-	-	
					Chromium	<2	-	Yes	
					Copper	5	-	Yes	
					Cyanide	-	-	-	
					Fluoride	122	-	Yes	
					Lead	4	-	Yes	
					Methylene Chloride	-	-	-	
					Nickel	<6	-	Yes	
					Simazine	-	-	-	
					Toluene	-	-	-	
					Xylene	-	-	-	
					Zinc	-	-	Yes	

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved (µg/l)	Has Standard been Achieved?	Does Article 3(9) (Extension) Apply?	If Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principal Source of Pollution?	If there is an identifiable Source, please enter details
1	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<2	→100	30	Yes	No	-	-	-
5	→100	30	Yes	No	-	-	-
5	→100	10	Yes	No	-	-	-
3	→100	500	Yes	No	-	-	-
2	→100	10	Yes	No	-	-	-
1	→100	10	Yes	No	-	-	-
5	→100	50	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
11	→100	100	Yes	No	-	-	-

Note 1): Heavy metals mean of 4 samples. Atrazine/Simazine/Zinc mean of 3 samples. Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

Table B40: River Water Quality Standards to be achieved by 2010 MILL STREAM

Local Authority Name	FINGAL CO. COUNCIL				Measures Report Year	31 st July '05-31 st Aug '06			
River Name	River Code	Monitoring Station Code	Station Name	Station Location	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
Mill Stream			Railway Bridge			Arsenic			-
						Atrazine			-
						Chromium	<2		Yes
						Copper	5		Yes
						Cyanide			-
						Fluoride	122		Yes
						Lead	4		Yes
						Methylene Chloride			-
						Nickel	<6		Yes
						Simazine			-
						Toluene			-
						Xylene			-
						Zinc			Yes

(Continued)

Current Condition (µg/l) Note (1)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standards to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 13(9) Extension Apply?	Yes/What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	Whether identifiable Source/assessment details
1	→100	25	Yes	No			
<1	→100	1.0	Yes	No			
<2	→100	30	Yes	No			
4	→100	30	Yes	No			
3	→100	10	Yes	No			
150	→100	500	Yes	No			
3	→100	10	Yes	No			
1	→100	10	Yes	No			
2	→100	50	Yes	No			
<1	→100	1.0	Yes	No			
<1	→100	10	Yes	No			
<1	→100	10	Yes	No			
20	→100	100	Yes	No			

Note (1): Heavy metals mean of 3 samples.

Table B41: River Water Quality Standards to be achieved by 2010 GAYBROOK STREAM

Local Authority Name: FINGAL CO. COUNCIL		Measures Report Year: 31 st July '04-31 st July '05						
River Name	River Code	Monitoring Station Name	Station Location	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (Where applicable)	Is Baseline Quality Satisfactory?
Gaybrook	-	Swords Road			Arsenic	-	<100	-
					Atrazine	-	<100	-
					Chromium	<2	<100	Yes
					Copper	5	<100	Yes
					Cyanide	-	<100	-
					Fluoride	122	<100	Yes
					Lead	4	<100	Yes
					Methylene Chloride	-	<100	-
					Nickel	<6	<100	Yes
					Simazine	-	<100	-
					Toluene	-	<100	-
					Xylene	-	<100	-
					Zinc	-	<100	Yes

(Continued)

Current Condition (µg/l) Note (1)	Water Hardness (mg/l CaCO ₃) (Where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where is the Unsatisfactory Principle Source of Pollution?	When is Quality Unsatisfactory? What is the Principle Source of Pollution?	If there is an identifiable Source, please enter details
1	→100	25	Yes	No	-	-	-	-
<1	→100	1.0	Yes	No	-	-	-	-
2	→100	30	Yes	No	-	-	-	-
5	→100	30	Yes	No	-	-	-	-
5	→100	10	Yes	No	-	-	-	-
<6	→100	500	Yes	No	-	-	-	-
<2	→100	10	Yes	No	-	-	-	-
1	→100	10	Yes	No	-	-	-	-
5	→100	50	Yes	No	-	-	-	-
<1	→100	1.0	Yes	No	-	-	-	-
<1	→100	10	Yes	No	-	-	-	-
<1	→100	10	Yes	No	-	-	-	-
15	→100	100	Yes	No	-	-	-	-

Note (1): Heavy metals mean of 4 samples. Arsenic/Atrazine/Lead/Simazine mean of 3 samples. Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

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Table B42: River Water Quality Standards to be achieved by 2010 GAYBROOK STREAM

Local Authority Name	FINGAL CO. COUNCIL	Measures Report Year	31 st July '05-31 st Aug '06
River Name	River Code	Monitoring Station Code	Station/Location Name
Gaybrook	-	-	Swords Road
			Arsenic
			Atrazine
			Chromium
			Copper
			Cyanide
			Fluoride
			Lead
			Methylene Chloride
			Nickel
			Simazine
			Toluene
			Xylene
			Zinc

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO3) (Where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Yes/What is the Revised Compliance Date?	What is the Unsatisfactory Principle Source of Pollution?	If the pollutant is identifiable (Source please enter details)
1	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
1	→100	30	Yes	No	-	-	-
4	→100	30	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
287	→100	500	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<2	→100	50	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
129	→100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 3 samples.

Table B43: River Water Quality Standards to be achieved by 2010 SLUICE

Local Authority Name		FINGAL CO. COUNCIL			Measures/Report Year			31 st July '04-31 st July '05		
River Name	River Code	Monitoring Station Code	Station Location Name	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Is Baseline Quality Satisfactory?	Is Baseline Quality Satisfactory?	Is Baseline Quality Satisfactory?
Sluice			Forrest Little Bridge		Arsenic					
					Atrazine					
					Chromium	<2			Yes	
					Copper	5			Yes	
					Cyanide					
					Fluoride	122			Yes	
					Lead	4			Yes	
					Methylene Chloride					
					Nickel	<6			Yes	
					Simazine					
					Toluene					
					Xylene					
					Zinc				Yes	

(Continued)

Current Condition (µg/l) Note (1)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 13(9) Extension Apply?	Yes/What is the Revised Compliance Date?	Where is the Principal source of Pollution?	Where is the Principal source of Pollution?	Where is the Principal source of Pollution?	Where is the Principal source of Pollution?	Where is the Principal source of Pollution?
1	→100	25	Yes	No						
<1	→100	1.0	Yes	No						
<2	→100	30	Yes	No						
6	→100	30	Yes	No						
5	→100	10	Yes	No						
4	→100	500	Yes	No						
<2	→100	10	Yes	No						
1	→100	10	Yes	No						
<5	→100	50	Yes	No						
<1	→100	1.0	Yes	No						
<1	→100	10	Yes	No						
<1	→100	10	Yes	No						
25	→100	100	Yes	No						

Note (1): Heavy metals mean of 4 samples. Arsenic/Atrazine/Lead/Simazine mean of 3 samples. Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

Table B44: River Water Quality Standards to be achieved by 2010 SLUICE

Local Authority Name	River Code	Monitoring Station Code	Station Name	Grid Reference	Measurement Year	31 st July '05-31 st Aug '06		
FINGAL CO. COUNCIL					Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
Sluice			Forrest Little Bridge		Arsenic	-	-	-
					Atrazine	-	-	-
					Chromium	<2	-	Yes
					Copper	5	-	Yes
					Cyanide	-	-	-
					Fluoride	122	-	Yes
					Lead	4	-	Yes
					Methylene Chloride	-	-	-
					Nickel	<6	-	Yes
					Simazine	-	-	-
					Toluene	-	-	-
					Xylene	-	-	-
					Zinc	2	-	Yes

(Continued)

Current Condition (µg/l) Note (1)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Has it Been Revisited/Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Cause of Pollution?	Is there identifiable Source please enter details
1	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	30	Yes	No	-	-	-
6	→100	30	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
297	→100	500	Yes	No	-	-	-
3	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
1	→100	50	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
44	→100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 3 samples.

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Table B45: River Water Quality Standards to be achieved by 2010 SLUICE

Local Authority Name	Monitoring Station Code	Station Location Name	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
FINGAL CO. COUNCIL							31 st July '04-31 st July '05
Sluice	Gauging Station			Arsenic	-	→100	-
				Atrazine	-	→100	-
				Chromium	←2	→100	Yes
				Copper	5	→100	Yes
				Cyanide	-	→100	-
				Fluoride	122	→100	Yes
				Lead	4	→100	Yes
				Methylene Chloride	-	→100	-
				Nickel	←6	→100	Yes
				Simazine	-	→100	-
				Toluene	-	→100	-
				Xylene	-	→100	-
				Zinc	-	→100	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes: What is the Revised Compliance Date?	Where Quality is Unsatisfactory: What is the Principal Source of Pollution?	Are there any identifiable sources please enter details
1	→100	25	Yes	No	-	-	-
←1	→100	1.0	Yes	No	-	-	-
←2	→100	30	Yes	No	-	-	-
7	→100	30	Yes	No	-	-	-
5	→100	10	Yes	No	-	-	-
←6	→100	500	Yes	No	-	-	-
←2	→100	10	Yes	No	-	-	-
1	→100	10	Yes	No	-	-	-
5	→100	50	Yes	No	-	-	-
←1	→100	1.0	Yes	No	-	-	-
←1	→100	10	Yes	No	-	-	-
←1	→100	10	Yes	No	-	-	-
97	→100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 4 samples. Arsenic/Atrazine/Lead/Simazine mean of 3 samples. Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

Table B46: River Water Quality Standards to be achieved by 2010 SLUICE

Local Authority Name		FINGAL CO. COUNCIL			Measures Report Year		31 st July '05-31 st Aug '06		
River Name	River Code	Monitoring Station Code	Station Name	Station Location	Grid Reference	Dangerous Substance	Baseline Condition (ug/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfaction?
Sluice			Gauging Station			Arsenic	-	→100	-
						Atrazine	-	→100	-
						Chromium	←2	→100	Yes
						Copper	5	→100	Yes
						Cyanide	-	→100	-
						Fluoride	122	→100	Yes
						Lead	4	→100	Yes
						Methylene Chloride	-	→100	-
						Nickel	←6	→100	Yes
						Simazine	-	→100	-
						Toluene	-	→100	-
						Xylene	-	→100	-
						Zinc	-	→100	Yes

(Continued)

Current Condition (ug/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved (2010) (ug/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Has Article 3(9) Extension Been Applied?	Yes/What is the Revised Compliance Date?	When Quality is Unsatisfactory, What is the Principle Source of Pollution?	Is this an Identified Source? Please enter details
1	→100	25	Yes	No	No	-	-	-
←1	→100	1.0	Yes	No	No	-	-	-
1	→100	30	Yes	No	No	-	-	-
7	→100	30	Yes	No	No	-	-	-
3	→100	10	Yes	No	No	-	-	-
300	→100	500	Yes	No	No	-	-	-
5	→100	10	Yes	No	No	-	-	-
1	→100	10	Yes	No	No	-	-	-
1	→100	50	Yes	No	No	-	-	-
←1	→100	1.0	Yes	No	No	-	-	-
←1	→100	10	Yes	No	No	-	-	-
←1	→100	10	Yes	No	No	-	-	-
40	→100	100	Yes	No	No	-	-	-

Note [1] Heavy metals 1 sample.

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Table B47: River Water Quality Standards to be achieved by 2010 SANTRY (09/S/01)

Local Authority Name	FINGAL CO. COUNCIL	Measures Report Year	31 st July '04-31 st July '05					
River Name	River Code	Monitoring Station Code	Station Location Name	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (Where applicable)	Baseline Quality Satisfactory?
Santry	09/S/01		Ballymun Rd. Bridge		Arsenic	-	→100	-
					Atrazine	-	→100	-
					Chromium	←2	→100	Yes
					Copper	5	→100	Yes
					Cyanide	-	→100	-
					Fluoride	122	→100	Yes
					Lead	4	→100	Yes
					Methylene Chloride	-	→100	-
					Nickel	←6	→100	Yes
					Simazine	-	→100	-
					Toluene	-	→100	-
					Xylene	-	→100	-
					Zinc	22	→100	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Has Revision/Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?
1	→100	25	Yes	No	-	-	-	-
←1	→100	1.0	Yes	No	-	-	-	-
←2	→100	30	Yes	No	-	-	-	-
6	→100	30	Yes	No	-	-	-	-
5	→100	10	Yes	No	-	-	-	-
5	→100	500	Yes	No	-	-	-	-
2	→100	10	Yes	No	-	-	-	-
1	→100	10	Yes	No	-	-	-	-
←6	→100	50	Yes	No	-	-	-	-
←1	→100	1.0	Yes	No	-	-	-	-
←1	→100	10	Yes	No	-	-	-	-
←1	→100	10	Yes	No	-	-	-	-
34	→100	100	Yes	No	-	-	-	-

Note (1) Heavy metals mean of 4 samples. Arsenic/Atrazine/Lead/Simazine mean of 3 samples. Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

Table B48: River Water Quality Standards to be achieved by 2010 SANTRY (09/S/01)

Local Authority Name	FINGAL CO. COUNCIL	Measures Report Year	31 st July '05-31 st Aug '06				
River Name	River Code	Monitoring Station Name	Station Location				
		Monitoring Station Code	Dangerous Substance				
			Baseline Condition (µg/l)				
			Water Hardness (mg/l CaCO ₃) (where applicable)				
			Is Baseline Quality Satisfactory?				
Santry	09/S/01	Ballymun Rd. Bridge	Arsenic	-	-	→ 100	-
			Atrazine	-	-	→ 100	-
			Chromium	← 2	-	→ 100	Yes
			Copper	5	-	→ 100	Yes
			Cyanide	-	-	→ 100	-
			Fluoride	122	-	→ 100	Yes
			Lead	4	-	→ 100	Yes
			Methylene Chloride	-	-	→ 100	-
			Nickel	← 6	-	→ 100	Yes
			Simazine	-	-	→ 100	-
			Toluene	-	-	→ 100	-
			Xylene	-	-	→ 100	-
			Zinc	-	-	→ 100	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standards Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Apply?	Yes/What is the Revised Compliance Date?	Where Quality Unsatisfactory What is the Principle Source of Pollution?	Are there any identifiable Source points?
1	→ 100	25	Yes	No	-	-	-
← 1	→ 100	1.0	Yes	No	-	-	-
← 1	→ 100	30	Yes	No	-	-	-
← 4	→ 100	30	Yes	No	-	-	-
← 4	→ 100	10	Yes	No	-	-	-
230	→ 100	500	Yes	No	-	-	-
← 4	→ 100	10	Yes	No	-	-	-
← 1	→ 100	10	Yes	No	-	-	-
← 2	→ 100	50	Yes	No	-	-	-
← 1	→ 100	1.0	Yes	No	-	-	-
← 1	→ 100	10	Yes	No	-	-	-
← 1	→ 100	10	Yes	No	-	-	-
53	→ 100	100	Yes	No	-	-	-

Note [1]: Heavy metals mean of 3 samples.

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Table B49: River Water Quality Standards to be achieved by 2010 SANTRY (09/S/01)

Local Authority Name	River Name	River Code	Monitoring Station Code	Station Location Name	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	31 st July '04-31 st July '05	Baseline Quality Satisfactory?
FINGAL CO. COUNCIL	Santry	09/S/01		D/S Airways Industrial Estate		Arsenic	-	→100	→100	-
						Atrazine	-	→100	→100	-
						Chromium	←2	→100	→100	Yes
						Copper	5	→100	→100	Yes
						Cyanide	-	→100	→100	-
						Fluoride	122	→100	→100	Yes
						Lead	4	→100	→100	Yes
						Methylene Chloride	-	→100	→100	-
						Nickel	←6	→100	→100	Yes
						Simazine	-	→100	→100	-
						Toluene	-	→100	→100	-
						Xylene	-	→100	→100	-
						Zinc	22	→100	→100	Yes

(Continued)

Current Condition (µg/l) Note (1)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle source of Pollution?	If there is an identifiable source please enter details
1	→100	25	Yes	No	-	-	-
←1	→100	1.0	Yes	No	-	-	-
←2	→100	30	Yes	No	-	-	-
5	→100	30	Yes	No	-	-	-
5	→100	10	Yes	No	-	-	-
←7	→100	500	Yes	No	-	-	-
2	→100	10	Yes	No	-	-	-
1	→100	10	Yes	No	-	-	-
←6	→100	50	Yes	No	-	-	-
←1	→100	1.0	Yes	No	-	-	-
←1	→100	10	Yes	No	-	-	-
←1	→100	10	Yes	No	-	-	-
38	→100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 4 samples.

Arsenic/Atrazine/Lead/Simazine mean of 3 samples. Cyanide/Methylene Chloride/Toluene/Xylene mean of 2 samples.

Table B50: River Water Quality Standards to be achieved by 2010 SANTRY (09/S/01).

Local Authority Name		FINGAL CO. COUNCIL			Measure Report Year	
River Name	River Code	Monitoring Station Code	Station Location Name	Grid Reference	Dangerous Substance	31 st July '05-31 st Aug '06
Santry	09/S/01		D/S Airways Industrial Estate		Arsenic	→ 100
					Atrazine	→ 100
					Chromium	← 2
					Copper	5
					Cyanide	→ 100
					Fluoride	122
					Lead	4
					Methylene Chloride	→ 100
					Nickel	← 6
					Simazine	→ 100
					Toluene	→ 100
					Xylene	→ 100
					Zinc	24

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (Where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Yes/What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle source of Pollution?	If there is an identifiable source please enter details
1	→ 100	25	Yes	No	-	-	-
← 1	→ 100	1.0	Yes	No	-	-	-
← 1	→ 100	30	Yes	No	-	-	-
← 22	→ 100	30	Yes	No	-	-	-
3	→ 100	10	Yes	No	-	-	-
247	→ 100	500	Yes	No	-	-	-
4	→ 100	10	Yes	No	-	-	-
← 1	→ 100	10	Yes	No	-	-	-
2	→ 100	50	Yes	No	-	-	-
← 1	→ 100	1.0	Yes	No	-	-	-
← 1	→ 100	10	Yes	No	-	-	-
← 1	→ 100	10	Yes	No	-	-	-
29	→ 100	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 3 samples.

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Table B51: River Water Quality Standards to be achieved by 2010 ROGERSTOWN ESTUARY (INNER)

Local Authority Name	Estuary Name	Estuary Code	Monitoring Station Code	Station Name	Station Location	Measures Report Year	Grid Reference Note (1)	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO3) (where applicable)	31st July 04-31st July 05	Is Baseline Quality Satisfactory?
FINGAL CO. COUNCIL	Rogerstown Inner	-	-	Rogerstown Slipway	-	Point	-	Arsenic	-	-	-	-
								Atrazine	-	-	-	-
								Chromium	<2	-	-	Yes
								Copper	5	-	-	Yes
								Cyanide	-	-	-	-
								Dichloromethane	-	-	-	-
								Fluoride	-	-	-	-
								Lead	4	-	-	Yes
								Nickel	<6	-	-	Yes
								Toluene	-	-	-	-
								Xylene	-	-	-	-
								Zinc	15	-	-	Yes

(Continued)

Current Condition (µg/l) Note (2)	Water Hardness (mg/l CaCO3) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Yes/What is Revised Compliance Date?	Where Quality is Unsatisfactory What is Principal source of Pollution?	Is the Source identifiable? (Source please enter details)
8	-	20	Yes	No	-	-	-
<1	-	1.0	Yes	No	-	-	-
4	-	15	Yes	No	-	-	-
1	-	5	Yes	No	-	-	-
5	-	10	Yes	No	-	-	-
3	-	10	Yes	No	-	-	-
<1	-	1,500	Yes	No	-	-	-
<1	-	5	Yes	No	-	-	-
1	-	25	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
<2	-	40	Yes	No	-	-	-

Note (1) Heavy Metals 1 sample taken.

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Table B53: River Water Quality Standards to be achieved by 2010 ROGERSTOWN ESTUARY (INNER)

Local Authority Name	FINGAL CO. COUNCIL		Measures Report Year	31 st July '04-31 st July '05			
Estuary Name	Estuary Code	Monitoring Station Name	Station Location Name	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (Where applicable)	Is Baseline Quality Satisfactory?
Rogerstown Inner	-	-	U/S Railway Viaduct	Arsenic	-	-	-
				Atrazine	-	-	-
				Chromium	<2	-	Yes
				Copper	5	-	Yes
				Cyanide	-	-	-
				Dichloromethane	-	-	-
				Fluoride	-	-	-
				Lead	4	-	Yes
				Nickel	<6	-	Yes
				Toluene	-	-	-
				Xylene	-	-	-
				Zinc	19	-	Yes

(Continued)

Current Condition (µg/l)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(1) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where Quality Unsatisfactory, What is the Principal Source of Pollution?	If the Source is Identifiable, please enter details.
11	20	Yes	No	-	-	-
<1	10	Yes	No	-	-	-
5	15	Yes	No	-	-	-
<1	5	Yes	No	-	-	-
5	10	Yes	No	-	-	-
1	10	Yes	No	-	-	-
<1	1,500	Yes	No	-	-	-
<1	5	Yes	No	-	-	-
3	25	Yes	No	-	-	-
1	10	Yes	No	-	-	-
1	10	Yes	No	-	-	-
<2	40	Yes	No	-	-	-

Note (1): Heavy metals 1 sample taken.

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Table B54: River Water Quality Standards to be achieved by 2010 ROGERSTOWN ESTUARY (INNER)

Local/Authority Name	Estuary Code	Monitoring Station Code	Station Location Name	Measures Report Year	31st July '05-31st Aug '06
Rogerstown Inner			U/S Railway Viaduct	Point	
				Arsenic	
				Atrazine	
				Chromium	<2
				Copper	5
				Cyanide	
				Dichloromethane	
				Fluoride	
				Lead	4
				Nickel	<6
				Toluene	
				Xylene	
				Zinc	19
					Yes

(Continued)

Current Condition (µg/l) (Note 12)	Water Hardness (mg/l CaCO3) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Dose Article 10 Apply	Yes/What is the Revised Compliance Date?	Where Quality is Poor/What is the Principal Source of Pollution?	If there is an identifiable Source please enter details
-	-	20	-	No			
<1	-	1.0	Yes	No			
7	-	15	Yes	No			
21	-	5	No	No			
5	-	10	Yes	No			
<48	-	10	No	No			
3	-	1,500	Yes	No			
3	-	5	Yes	No			
5	-	25	Yes	No			
1	-	10	Yes	No			
1	-	10	Yes	No			
<20	-	40	Yes	No			

Note (1): Heavy metals 1 sample taken. Arsenic not tested.

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Table B56: River Water Quality Standards to be achieved by 2010 ROGERSTOWN ESTUARY (INNER)

Local Authority Name		FINGAL CO. COUNCIL			Measures Report Year		31 st July '05-31 st Aug '06	
Estuary Name	Estuary Code	Monitoring Station Code	Station Location Name	Guidance Reference (Note 1)	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality (µg/l) (where applicable)
Rogerstown Inner	-	-	Stream Outfall at Ballealy	Point	Arsenic	-	>100	-
					Atrazine	<2	>100	Yes
					Chromium	5	>100	Yes
					Copper	-	>100	-
					Cyanide	-	>100	-
					Dichloromethane	-	>100	-
					Fluoride	-	>100	-
					Lead	4	>100	Yes
					Nickel	<6	>100	Yes
					Toluene	-	>100	-
					Xylene	-	>100	-
					Zinc	<22	>100	Yes

(Continued)

Current Condition (µg/l) (Note 2)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3 (9) Extension Apply?	Yes/What is the Revised Compliance Date?	What is the Principal Source of Pollution?	What is the Source of the Quality?	Is the Source Identifiable? (If not, please state details)
<1	-	20	Yes	No	-	-	-	-
8	-	1.0	Yes	No	-	-	-	-
9	-	15	Yes	No	-	-	-	-
5	-	5	Yes	No	-	-	-	-
10	-	10	Yes	No	-	-	-	-
102	-	10	No	No	-	-	-	-
2	-	1500	Yes	No	-	-	-	-
1	-	5	Yes	No	-	-	-	-
5	-	25	Yes	No	-	-	-	-
1	-	10	Yes	No	-	-	-	-
1	-	10	Yes	No	-	-	-	-
14	-	40	Yes	No	-	-	-	-

Note (1): Heavy metals 1 sample taken. Arsenic not tested.

Table B57: River Water Quality Standards to be achieved by 2010 ROGERSTOWN ESTUARY (INNER)

Local Authority Name	Estuary Code	Monitoring Station Code	Station Name	Station Location	Measures Report Year	31st July '04-31st July '05
Rogerstown Inner	-	-	Beaverstown Lane	Point		
					Dangerous Substance	Baseline Condition (µg/l)
					Arsenic	-
					Atrazine	-
					Chromium	←2
					Copper	5
					Cyanide	-
					Dichloromethane	-
					Fluoride	-
					Lead	4
					Nickel	←6
					Toluene	-
					Xylene	-
					Zinc	17
						IS Baseline Quality Satisfactory?
						Yes
						Yes
						Yes
						Yes
						Yes
						Yes

(Continued)

Current Condition (µg/l)	Standard to be Achieved by 2010 (µg/l)	Water Hardness (mg/l CaCO ₃) where applicable	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes: What is the Revised Compliance Date?	Where Quality is Satisfactory: What is the Pollutant?	If there is an identifiable source please enter details
5	20	-	Yes	No	-	-	-
←1	1.0	-	Yes	No	-	-	-
5	15	-	Yes	No	-	-	-
1	5	-	Yes	No	-	-	-
5	10	-	Yes	No	-	-	-
1	10	-	Yes	No	-	-	-
←1	1,500	-	Yes	No	-	-	-
←1	5	-	Yes	No	-	-	-
3	25	-	Yes	No	-	-	-
1	10	-	Yes	No	-	-	-
1	10	-	Yes	No	-	-	-
←2	40	-	Yes	No	-	-	-

Note (1): Heavy metals 1 sample taken.

Content of column 7 subject to change for any other use.

Table B58: River Water Quality Standards to be achieved by 2010 ROGERSTOWN ESTUARY (INNER)

Local Authority Name	Estuary Code	Monitoring Station Code	Station Location Name	Measure Report Year	31 st July '05-31 st Aug '06		
ROGERSTOWN INNER			Beaverstown Lane				
				Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Status (factory)
				Arsenic			
				Atrazine			
				Chromium	<2		Yes
				Copper	5		Yes
				Cyanide			
				Dichloromethane			
				Fluoride			
				Lead	4		Yes
				Nickel	<6		Yes
				Toluene			
				Xylene			
				Zinc	17		Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Yes/What is the Revised Compliance Date?	Where Quantities Unsatisfactory What is the Principle source of Pollution?	If there is an identifiable source please enter details
<1	-	20	-	No	-	-	-
4	-	1.0	Yes	No	-	-	-
8	-	15	Yes	No	-	-	-
5	-	5	No	No	-	-	-
<72	-	10	Yes	No	-	-	-
<1	-	10	No	No	-	-	-
1	-	1500	Yes	No	-	-	-
5	-	5	Yes	No	-	-	-
1	-	25	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
<15	-	10	Yes	No	-	-	-
<15	-	40	Yes	No	-	-	-

Note (1) : Heavy metals 1 sample taken. Arsenic not tested.

Table B59: River Water Quality Standards to be achieved by 2010 ROGERSTOWN ESTUARY (INNER)

Local Authority Name	Estuary Code	FINGAL CO. COUNCIL	Monitoring Station Code	Station Name	Grid Reference (Note 1)	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
Rogerstown Inner	-	Burrow Portrane	-	Point	-	Arsenic	-	-	-
						Atrazine	-	-	-
						Chromium	<-2	-	Yes
						Copper	5	-	Yes
						Cyanide	-	-	-
						Dichloromethane	-	-	-
						Fluoride	-	-	-
						Lead	4	-	Yes
						Nickel	<-6	-	Yes
						Toluene	-	-	-
						Xylene	-	-	-
						Zinc	29	-	Yes

(Continued)

Current Condition (µg/l) (Notes 2)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(6) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	If there is an identifiable source, please enter details
10	-	20	Yes	No	-	-	-
<-1	-	1.0	Yes	No	-	-	-
5	-	15	Yes	No	-	-	-
1	-	5	Yes	No	-	-	-
5	-	10	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
<-1	-	1,500	Yes	No	-	-	-
<-1	-	5	Yes	No	-	-	-
3	-	25	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
<-2	-	40	Yes	No	-	-	-

Note (1): Heavy metals 1 sample taken.

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Table B60: River Water Quality Standards to be achieved by 2010 ROGERSTOWN ESTUARY (INNER)

Local Authority Name	Estuary Code	Monitoring Station Name	Monitoring Station Code	Station Location Name	Grid Reference (Note 1)	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	31 st July '05-31 st Aug '06	Baseline Quality Satisfactory?
Rogerstown Inner	-	Burrow Portrane	-	Point	-	Arsenic	-	-	-	-
						Atrazine	-	-	-	-
						Chromium	←2	-	-	Yes
						Copper	5	-	-	Yes
						Cyanide	-	-	-	-
						Dichloromethane	-	-	-	-
						Fluoride	-	-	-	-
						Lead	4	-	-	Yes
						Nickel	←6	-	-	Yes
						Toluene	-	-	-	-
						Xylene	-	-	-	-
						Zinc	29	-	-	Yes

(Continued)

Current Condition (µg/l) Note (2)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Yes/What is the Revised Compliance Date?	What is the Unsatisfactory Pollutant Source?	What is the Quality of the Source? (What is the Pollution Category?)	If the Source is identifiable, please give details
←1	-	20	Yes	No	-	-	-	-
17	-	15	No	No	-	-	-	-
17	-	5	No	No	-	-	-	-
5	-	10	Yes	No	-	-	-	-
60	-	10	No	No	-	-	-	-
3	-	1500	Yes	No	-	-	-	-
9	-	5	Yes	No	-	-	-	-
1	-	10	Yes	No	-	-	-	-
1	-	10	Yes	No	-	-	-	-
←15	-	40	Yes	No	-	-	-	-

Note (1): Heavy metals 1 sample taken. Arsenic not tested.

Table B61: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)
FINGAL CO. COUNCIL

Local Authority Name	Estuary Name	Monitoring Station Code	Monitoring Station Name	Station Location	Grid Reference	Dangerous Substance	Baseline Condition (µg/l) (Note 1)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
Broadmeadow			Lissenhall Br	Point 31		Arsenic	1.4	→100	Yes
						Atrazine	<0.5	→100	Yes
						Chromium	0.4	→100	Yes
						Copper	4.1	→100	Yes
						Cyanide	-	→100	-
						Dichloromethane	-	→100	-
						Fluoride	-	→100	-
						Lead	0.4	→100	Yes
						Nickel	1.4	→100	Yes
						Toluene	10	→100	Yes
						Xylene	<0.5	→100	Yes
						Zinc	10.3	→100	Yes

(Continued)

Current Condition (µg/l) (Note 3)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	What is the Revised Compliance Date?	What is the Quality of the Polluting Source?	If there is an identifiable Source please enter details
1	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
5	→100	30	Yes	No	-	-	-
2	→100	30	Yes	No	-	-	-
5	→100	10	Yes	No	-	-	-
1	→100	10	Yes	No	-	-	-
<1	→100	500	Yes	No	-	-	-
<1	→100	10	Yes	No	-	-	-
3	→100	50	Yes	No	-	-	-
1	→100	10	Yes	No	-	-	-
<2	→100	10	Yes	No	-	-	-
	→100	100	Yes	No	-	-	-

Note (1): Heavy metals 1 sample taken.

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Table B62: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	Estuary Code	Station Name	Station Location	Station Reference (Note 1)	Dangerous Substance	Baseline Condition (µg/l) (Note 2)	Water Hardness (mg/l CaCO ₃) (Where applicable)	Baseline Quality (Satisfactory)
FINGAL CO. COUNCIL		Lissenhall Br		Point 31	Arsenic	1.4	→100	Yes
					Atrazine	<0.5	→100	Yes
					Chromium	0.4	→100	Yes
					Copper	4.1	→100	Yes
					Cyanide	-	→100	-
					Dichloromethane	-	→100	-
					Fluoride	-	→100	-
					Lead	0.4	→100	Yes
					Nickel	1.4	→100	Yes
					Toluene	10	→100	Yes
					Xylene	<0.5	→100	Yes
					Zinc	10.3	→100	Yes

(Continued)

Current Condition (µg/l) (Note 3)	Water Hardness (mg/l CaCO ₃) (Where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 9(9) Extension Apply?	Yes/What is the Revised Compliance Date?	Where Quality is Unsatisfactory/What is the Principle source of Pollution?	Further Remedial Action/Source/Prevention details
2	→100	25	Yes	No	-	-	-
<1	→100	1.0	Yes	No	-	-	-
2	→100	30	Yes	No	-	-	-
<12	→100	30	Yes	No	-	-	-
<10	→100	10	Yes	No	-	-	-
1	→100	10	Yes	No	-	-	-
<1	→100	500	Yes	No	-	-	-
<5	→100	10	Yes	No	-	-	-
5	→100	50	Yes	No	-	-	-
1	→100	10	Yes	No	-	-	-
1	→100	10	Yes	No	-	-	-
8	→100	100	Yes	No	-	-	-

Note(1): Heavy metals mean of 2 samples.

Table B63: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	Estuary Code	Monitoring Station Code	Station Name	Station Location	Measures Report Year	31 st July '04-31 st July '05		
FINGAL CO. COUNCIL								
Estuary Name	Estuary Code	Monitoring Station Code	Station Name	Station Location	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
Broadmeadow			U/S Swords		Arsenic			
Inner			Outfall					
					Atrazine			
					Chromium	<-2		Yes
					Copper	5		Yes
					Cyanide			
					Dichloromethane			
					Fluoride			
					Lead	4		Yes
					Nickel	<-6		Yes
					Toluene			
					Xylene			
					Zinc	27		Yes

(Continued)

Current Condition (µg/l) Note (2)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle source of Pollution?	If there is an identifiable source please enter details
2		25	Yes	No			
<-1		1.0	Yes	No			
4		30	Yes	No			
2		30	Yes	No			
5		10	Yes	No			
20		10	Yes	No			
<-1		500	Yes	No			
<-1		10	Yes	No			
3		50	Yes	No			
1		10	Yes	No			
1		10	Yes	No			
8		100	Yes	No			

Note (1): Heavy metals 1 sample taken.

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Table B64: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	FINGAL CO. COUNCIL	Measures Report Year	31 st July '05-31 st Aug '06
Estuary Name	Estuary Code	Monitoring Station Code	Station Location Name
Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)
Baseline Condition (µg/l)	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)
Broadmeadow Inner	-	-	U/S Swords Outfall
		Point 32	Arsenic
			Atrazine
			Chromium
			Copper
			Cyanide
			Dichloromethane
			Fluoride
			Lead
			Nickel
			Toluene
			Xylene
			Zinc

(Continued)

Current Condition (µg/l)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Yes/What is the Revised Compliance Date?	Where Quality is Unsatisfactory/What is the Pollution Source?	If there is an identifiable source please give details
1	25	Yes	No	-	-	-
<-1	1.0	Yes	No	-	-	-
1	30	Yes	No	-	-	-
9	30	Yes	No	-	-	-
18	10	No	No	-	-	-
1	10	Yes	No	-	-	-
<-1	500	Yes	No	-	-	-
<-3	10	Yes	No	-	-	-
<-5	50	Yes	No	-	-	-
1	10	Yes	No	-	-	-
1	10	Yes	No	-	-	-
<-7	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 2 samples.

Table B65: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	FINGAL CO. COUNCIL			Measures Report Year		31 st July '04-31 st July '05		
Estuary Name	Estuary Code	Monitoring Station Code	Station Name	Station Location	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Is Baseline Quality Satisfactory?
Broadmeadow Inner	-	-	1	Point 33	Arsenic	-	-	-
					Atrazine	-	-	-
					Chromium	<-2	-	Yes
					Copper	5	-	Yes
					Cyanide	-	-	-
					Dichloromethane	-	-	-
					Fluoride	-	-	-
					Lead	4	-	Yes
					Nickel	<-6	-	Yes
					Toluene	-	-	-
					Xylene	-	-	-
					Zinc	31	-	Yes

(Continued)

Current Condition (µg/l) (Note 12)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Yes/What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	If there is an identifiable Source please enter details
1	-	25	Yes	No	-	-	-
<-1	-	1.0	Yes	No	-	-	-
5	-	30	Yes	No	-	-	-
3	-	30	Yes	No	-	-	-
5	-	10	Yes	No	-	-	-
17	-	10	No	No	-	-	-
<-1	-	500	Yes	No	-	-	-
<-1	-	10	Yes	No	-	-	-
3	-	50	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
<-2	-	100	Yes	No	-	-	-

Note (1): Heavy metals 1 sample taken.

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Table B66: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name		FINGAL CO. COUNCIL			Measures Report Year		31 st July '05-31 st Aug '06	
Estuary Name	Estuary Code	Monitoring Station Code	Station/Location Name	Grid Reference (Note 1)	Dangerous Substance	Baseline Condition (ug/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfaction (2)
Broadmeadow Inner	-	-	1	Point 33	Arsenic	-	-	-
					Atrazine	-	-	-
					Chromium	<2	-	Yes
					Copper	5	-	Yes
					Cyanide	-	-	-
					Dichloromethane	-	-	-
					Fluoride	-	-	-
					Lead	4	-	Yes
					Nickel	<6	-	Yes
					Toluene	-	-	-
					Xylene	-	-	-
					Zinc	<31	-	Yes

(Continued)

Current Condition (ug/l) (Note 2)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (ug/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	If there is an identifiable source, please provide details
2	-	25	Yes	No	-	-	-
<1	-	1.0	Yes	No	-	-	-
<3	-	30	Yes	No	-	-	-
<11	-	30	Yes	No	-	-	-
6	-	10	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
<1	-	500	Yes	No	-	-	-
<3	-	10	Yes	No	-	-	-
<7	-	50	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
14	-	100	Yes	No	-	-	-

Note (1): Heavy metals mean of 2 samples.

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Table B67: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	Estuary Code	Monitoring Station Code	Station Name	Station Location	Measures Report Year	Baseline Condition (µg/l)	Dangerous Substance	Water Hardness (mg/l CaCO3) (where applicable)	Baseline Quality Satisfactory?
FINGAL CO. COUNCIL	-	-	2	Point 94	31 st July '04-31 st July '05	-	Arsenic	-	-
						-	Atrazine	-	-
						<2	Chromium	-	Yes
						5	Copper	-	Yes
						-	Cyanide	-	-
						-	Dichloromethane	-	-
						-	Fluoride	-	-
						4	Lead	-	Yes
						<6	Nickel	-	Yes
						-	Toluene	-	-
						-	Xylene	-	-
						19	Zinc	-	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO3) (where applicable)	Standard Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(6) E-extension Apply?	Yes/What is the Revised Compliance Date?	Where Quality is Poor (Station/What is the Principle source of Pollution?)	If there is an identifiable Source please enter details
1	-	25	Yes	No	-	-	-
<1	-	1.0	Yes	No	-	-	-
5	-	30	Yes	No	-	-	-
2	-	30	Yes	No	-	-	-
5	-	10	Yes	No	-	-	-
14	-	10	No	No	-	-	-
<1	-	500	Yes	No	-	-	-
<1	-	10	Yes	No	-	-	-
3	-	50	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
<2	-	100	Yes	No	-	-	-

Note (1): Heavy metals 1 sample taken.

Table B68: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	FINGAL CO. COUNCIL			Measures Report Year		31st July 05-31st Aug 06		
Estuary Name	Estuary Code	Monitoring Station Code	Station Location Name	Grid Reference (Notes if any)	Dangerous Substance	Baseline Condition ($\mu\text{g/l}$)	Water Hardness (mg/l CaCO ₃) (Where applicable)	Is Baseline Quality Satisfactory?
Broadmeadow Inner	-	-	2	Point 34	Arsenic			
					Atrazine			
					Chromium	<2		Yes
					Copper	5		Yes
					Cyanide			
					Dichloromethane			
					Fluoride			
					Lead	4		Yes
					Nickel	<6		Yes
					Toluene			
					Xylene			
					Zinc	<19		Yes

(Continued)

Current Condition ($\mu\text{g/l}$) Note (2)	Water Hardness (mg/l CaCO ₃) (Where applicable)	Standard Achieved by 2010 ($\mu\text{g/l}$)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Is Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principal Source of Pollution?	Is the Estuary Identifiable Source, please enter details
<4		25	Yes	No	-		-
<1		1.0	Yes	No	-		-
3		30	Yes	No	-		-
<9		30	Yes	No	-		-
<6		10	Yes	No	-		-
1		10	Yes	No	-		-
<1		500	Yes	No	-		-
4		10	Yes	No	-		-
6		50	Yes	No	-		-
1		10	Yes	No	-		-
1		10	Yes	No	-		-
19		100	Yes	No	-		-

Note (1): Heavy metals 1 sample taken.

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Table B69: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	Estuary Code	Monitoring Station Code	Station Name	Location	Measures Reported	31 st July '04-31 st July '05
FINGAL CO. COUNCIL			3	Point 35		
Broadmeadow Inner					Arsenic	
					Atrazine	
					Chromium	<2
					Copper	5
					Cyanide	
					Dichloromethane	
					Fluoride	
					Lead	4
					Nickel	<6
					Toluene	
					Xylene	
					Zinc	27
						Yes

(Continued)

Current Condition (ug/l)	Standard to be Achieved by 2010 (ug/l)	Has Standard Been Achieved?	Does Article 9(1) Extension Apply?	(Yes/What is the Revised Compliance Date?)	Water Quality Unacceptable/What is the Principle Source of Pollution?	(If there is an identifiable source please enter details)
6	20	Yes	No			
<1	1.0	Yes	No			
7	15	Yes	No			
2	5	Yes	No			
5	10	Yes	No			
6	10	Yes	No			
<1	1,500	Yes	No			
<1	5	Yes	No			
3	25	Yes	No			
1	10	Yes	No			
1	10	Yes	No			
<2	40	Yes	No			

Note (1): Heavy Metals 1 sample taken.

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Table B70: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	FINGAL CO. COUNCIL	Measures Report Year	31 st July '05-31 st Aug '06
Estuary Name	Monitoring Station Name	Grid Reference	Dangerous Substance
Estuary Code	Station Code	Notes	Baseline Condition
Water Hardness (mg/l CaCO ₃) (where applicable)	Station Name	Station Code	Baseline Condition (µg/l)
	Broadmeadow Inner	3	Arsenic
		Point 35	Atrazine
			Chromium
			Copper
			Cyanide
			Dichloromethane
			Fluoride
			Lead
			Nickel
			Toluene
			Xylene
			Zinc

(Continued)

Current Condition (µg/l)	Standard to be Achieved by 2010 (µg/l)	Has Standard been Achieved?	Does Article 3(9) Apply?	Yes/No	What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle source of Pollution?	If there is an identifiable source, please enter details
4	20	Yes	No	No			
<1	1.0	Yes	No	No			
<5	15	Yes	No	No			
<8	5	No	No	No			
5	10	Yes	No	No			
1	10	Yes	No	No			
<1	1,500	Yes	No	No			
<6	5	No	No	No			
4	25	Yes	No	No			
1	10	Yes	No	No			
1	10	Yes	No	No			
<17	40	Yes	No	No			

Note (1): Heavy metals mean of 2 samples.

Table B71: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name		FINGAL CO. COUNCIL			Measures/Report Year		31 st July '04-31 st July '05		
Estuary Name	Estuary Code	Monitoring Station Name	Station Location	Grid Reference Note (1)	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO3) (where applicable)	Water Hardness (µg/l) (where applicable)	Is Baseline Quality Satisfactory?
Broadmeadow Inner	-	-	4	Point 36	Arsenic	-	-	-	-
					Atrazine	-	-	-	-
					Chromium	<2	-	-	Yes
					Copper	5	-	-	Yes
					Cyanide	-	-	-	-
					Dichloromethane	-	-	-	-
					Fluoride	-	-	-	-
					Lead	4	-	-	Yes
					Nickel	<6	-	-	Yes
					Toluene	-	-	-	-
					Xylene	-	-	-	-
					Zinc	10	-	-	Yes

(Continued)

Current Condition (µg/l) Note(2)	Water Hardness (mg/l CaCO3) (where applicable)	Standard to be Achieved (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	When Was the Revised Compliance Date?	Does it Meet the Revised Compliance Date?	Where is the Quality Unsatisfactory? What is the Principal Source of Pollution?	Is there an identifiable source? Please enter details
<1	-	20	Yes	No	-	-	-	-
<1	-	1.0	Yes	No	-	-	-	-
6	-	15	Yes	No	-	-	-	-
3	-	5	Yes	No	-	-	-	-
5	-	10	Yes	No	-	-	-	-
18	-	10	No	No	-	-	-	-
<1	-	1,500	Yes	No	-	-	-	-
<1	-	5	Yes	No	-	-	-	-
3	-	25	Yes	No	-	-	-	-
1	-	10	Yes	No	-	-	-	-
1	-	10	Yes	No	-	-	-	-
<2	-	40	Yes	No	-	-	-	-

Note (1): Heavy metals 1 sample taken.

Table B72: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name		FINGAL CO. COUNCIL			Measures Report Year		31 st July '05-31 st Aug '06		
Estuary Name	Estuary Code	Monitoring Station Name	Station Location	Grid Reference	Dangerous Substance	Baseline Condition (ug/l)	Water Hardness (mg/l CaCO3) where applicable	Baseline Condition (ug/l) where applicable	Is Baseline Quality Satisfactory?
Broadmeadow Inner	-	4	Point 36		Arsenic	-		-	-
					Atrazine	-		-	-
					Chromium	<2		<2	Yes
					Copper	5		5	Yes
					Cyanide	-		-	-
					Dichloromethane	-		-	-
					Fluoride	-		-	-
					Lead	4		4	Yes
					Nickel	<6		<6	Yes
					Toluene	-		-	-
					Xylene	-		-	-
					Zinc	10		10	Yes

(Continued)

Current Condition (ug/l) Note (2)	Water Hardness (mg/l CaCO3) where applicable	Standard to be Achieved by 2010 (ug/l)	Has Standard Been Achieved?	Does Article 39 (1) Apply?	If Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	Is there an identifiable source please enter details
19		20	Yes	No	-	-	-
<1		1.0	Yes	No	-	-	-
<4		15	Yes	No	-	-	-
<9		5	No	No	-	-	-
5		10	Yes	No	-	-	-
1		10	Yes	No	-	-	-
<1		1,500	Yes	No	-	-	-
1		5	Yes	No	-	-	-
<6		25	Yes	No	-	-	-
1		10	Yes	No	-	-	-
<6		40	Yes	No	-	-	-

Note (1): Heavy metals mean of 2 samples.

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Table B73: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	FINGAL CO. COUNCIL	Measures Reported Year	31 st July '04-31 st July '05
Estuary Name	Estuary Code	Monitoring Station Name	Station Location Name
Monitoring Station Code	Station Name	Station Location Name	Station Location Name
Baseline Condition (µg/l)	Dangerous Substance	Offid Reference Note (1)	Water Hardness (mg/l CaCO ₃) (Where applicable)
	5	Point 37	Arsenic
			Atrazine
			Chromium
			Copper
			Cyanide
			Dichloromethane
			Fluoride
			Lead
			Nickel
			Toluene
			Xylene
			Zinc

(Continued)

Current Condition (µg/l) (Note (2))	Water Hardness (mg/l CaCO ₃) (Where applicable)	Standard Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Dose Article 31(6) Extension Apply?	Yes/What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	Is there a identifiable Source please enter details
10		20	Yes	No	-		
<-1		1.0	Yes	No	-		
7		15	Yes	No	-		
1		5	Yes	No	-		
5		10	Yes	No	-		
3		10	Yes	No	-		
<-1		1,500	Yes	No	-		
<-1		5	Yes	No	-		
2		25	Yes	No	-		
1		10	Yes	No	-		
1		10	Yes	No	-		
<-2		40	Yes	No	-		

Note (1): Heavy metals 1 sample taken

Table B74: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	FINGAL CO. COUNCIL	Measures Report Year	31 st July '05-31 st Aug '06
Estuary Name	Monitoring Station Code	Station Location Name	Grid Reference Note (1)
Broadmeadow Inner	5	Point 37	
			Arsenic
			Atrazine
			Chromium
			Copper
			Cyanide
			Dichloromethane
			Fluoride
			Lead
			Nickel
			Toluene
			Xylene
			Zinc

(Continued)

Current Condition (µg/l)	Standard to be Achieved by 2010 (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Has Standard been Achieved?	Does Article 3(9) Extension Apply?	Does Article 3(9) Extension Apply?	Revised Compliance Date?	Where is the Pollution?	What is the Unsatisfactory Principle or Pollutant?	Is the Pollutant Readily Identifiable by Source please enter details
3	20		Yes	No					
<-1	1.0		Yes	No					
<-4	15		Yes	No					
6	5		No	No					
5	10		Yes	No					
1	10		Yes	No					
<-1	1500		Yes	No					
2	5		Yes	No					
5	25		Yes	No					
1	10		Yes	No					
1	10		Yes	No					
11	40		Yes	No					

Note (1): Heavy metals mean of 2 samples.

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Table B75: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	Estuary Code	Monitoring Station Code	Station Name	Station Location	Measures Report Year	31 st July '04-31 st July '05	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
Broadmeadow Inner	-	-	6	Point 38	-	-	-	-	-
						Arsenic			
						Atrazine			
						Chromium	<2		Yes
						Copper	5		Yes
						Cyanide			
						Dichloromethane			
						Fluoride			
						Lead	4		Yes
						Nickel	<6		Yes
						Toluene			
						Xylene			
						Zinc	7		Yes

(Continued)

Current Condition (µg/l) (Note [2])	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 31(6) Extension Apply?	Yes/What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principal Source of Pollution?	If there is any identifiable Source, please name details
8		20	Yes	No	-		
<1		1.0	Yes	No	-		
8		15	Yes	No	-		
2		5	Yes	No	-		
5		10	Yes	No	-		
2		10	Yes	No	-		
<1		1,500	Yes	No	-		
<1		5	Yes	No	-		
2		25	Yes	No	-		
1		10	Yes	No	-		
1		10	Yes	No	-		
<2		40	Yes	No	-		

Note (1): Heavy metals 1 sample taken.

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Table B76: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	Estuary Code	Monitoring Station Code	Station Name	Grid Reference Note (if applicable)	Dangerous Substance	Measures Report Year	
						Baseline Condition (µg/l)	31 st July '05 - 31 st Aug '06
Broadmeadow Inner	-	-	6	Point 38	Arsenic	-	-
					Atrazine	-	-
					Chromium	<2	Yes
					Copper	5	Yes
					Cyanide	-	-
					Dichloromethane	-	-
					Fluoride	-	-
					Lead	4	Yes
					Nickel	<6	Yes
					Toluene	-	-
					Xylene	-	-
					Zinc	<7	Yes

(Continued)

Current Condition (µg/l) Note (2)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where is the Principal Source of Pollution?	If the Source is identifiable, please enter details
18	-	20	Yes	No	-	-	-
<1	-	1.0	Yes	No	-	-	-
4	-	15	Yes	No	-	-	-
6	-	5	No	No	-	-	-
5	-	10	Yes	No	-	-	-
<2	-	10	Yes	No	-	-	-
<1	-	1,500	Yes	No	-	-	-
1	-	5	Yes	No	-	-	-
<5	-	25	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
<5	-	40	Yes	No	-	-	-

Note (1): Heavy metals mean of 2 samples.

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Table B77: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	Estuary Code	Monitoring Station Code	Station Location Name	Grid Reference Note (1)	Dangerous Substance	Baseline Condition (ug/l)	Water Hardness (mg/l CaCO3) Where applicable	31 st July '04-31 st July '05	Baseline Quality Satisfactory?
FINGAL CO. COUNCIL	-	-	7	Point 39	Arsenic	-	-	-	-
					Atrazine	-	-	-	-
					Chromium	<-2	-	-	Yes
					Copper	5	-	-	Yes
					Cyanide	-	-	-	-
					Dichloromethane	-	-	-	-
					Fluoride	-	-	-	-
					Lead	4	-	-	Yes
					Nickel	<-6	-	-	Yes
					Toluene	-	-	-	-
					Xylene	-	-	-	-
					Zinc	-	-	-	Yes

(Continued)

Current Condition (ug/l) Note (2)	Water Hardness (mg/l CaCO3) Where applicable	Standard to be Achieved by 2010 (ug/l)	Has Standard Been Achieved?	Does Article 19(6) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	If there is an identifiable Source please enter details
8	-	20	Yes	No	-	-	-
<-1	-	1.0	Yes	No	-	-	-
8	-	15	Yes	No	-	-	-
1	-	5	Yes	No	-	-	-
5	-	10	Yes	No	-	-	-
8	-	10	Yes	No	-	-	-
<-1	-	1,500	Yes	No	-	-	-
<-1	-	5	Yes	No	-	-	-
2	-	25	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
<-2	-	40	Yes	No	-	-	-

Note (1) Heavy metals 1 sample taken.

Table B78: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name		FINGAL CO. COUNCIL			Measures Report Year		31 st July '05-31 st Aug '06			
Estuary Name	Estuary Code	Monitoring Station Code	Station Name	Station Location	Grid Reference (Note 1)	Dangerous Substance	Basic Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Water Hardness (µg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
Broadmeadow Inner	-	-	7		Point 39	Arsenic	-			-
						Atrazine	-			-
						Chromium	<-2			Yes
						Copper	5			Yes
						Cyanide	-			-
						Dichloromethane	-			-
						Fluoride	-			-
						Lead	4			Yes
						Nickel	<-6			Yes
						Toluene	-			-
						Xylene	-			-
						Zinc	-			Yes

(Continued)

Current Condition (µg/l) (Note 2)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 39 Extension Apply?	If Yes, Article Revised (Date)	What is the Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	If there is identifiable Source, please give details
30		20	No	No				
<-1		1.0	Yes	No				
<-4		15	Yes	No				
<-10		5	No	No				
5		10	Yes	No				
1		10	Yes	No				
<-1		1,500	Yes	No				
1		5	Yes	No				
<-5		25	Yes	No				
1		10	Yes	No				
1		10	Yes	No				
20		40	Yes	No				

Note (1): Heavy Metals mean of 2 samples.

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Table B79: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name		Measures Report Year						
FINGAL CO. COUNCIL		31 st July '04-31 st July '05						
Estuary Name	Estuary Code	Monitoring Station Code	Station Location Name	Grid Reference (Note 1)	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
Broadmeadow Inner	-	-	8	Point 40	Arsenic	-	-	-
					Atrazine	-	-	-
					Chromium	<2	-	Yes
					Copper	5	-	Yes
					Cyanide	-	-	-
					Dichloromethane	-	-	-
					Fluoride	-	-	-
					Lead	4	-	Yes
					Nickel	<6	-	Yes
					Toluene	-	-	-
					Xylene	-	-	-
					Zinc	13	-	Yes

Current Condition (µg/l) (Note 2)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(6) Extension Apply?	If Yes, What is the Revised Compliance Date?	If the release is identifiable, please provide details of the source of pollution?
8	-	20	Yes	No	-	-
<1	-	1.0	Yes	No	-	-
8	-	15	Yes	No	-	-
1	-	5	Yes	No	-	-
5	-	10	Yes	No	-	-
6	-	10	Yes	No	-	-
<1	-	1,500	Yes	No	-	-
<1	-	5	Yes	No	-	-
2	-	25	Yes	No	-	-
1	-	10	Yes	No	-	-
1	-	10	Yes	No	-	-
<2	-	40	Yes	No	-	-

Note (1): Heavy Metals 1 sample taken.

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Table B80: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name		FINGAL CO. COUNCIL			Measures Report Year		31 st July '05-31 st Aug '06	
Estuary Name	Estuary Code	Monitoring Station Name	Station Location	Reference Note (1)	Dangerous Substance	Baseline Condition (ug/l)	Water Hardness (mg/l CaCO3) (where applicable)	Is Baseline Quality Satisfactory?
Broadmeadow Inner	-	-	8	Point 40	Arsenic	-	-	-
					Atrazine	-	-	-
					Chromium	<2	-	Yes
					Copper	5	-	Yes
					Cyanide	-	-	-
					Dichloromethane	-	-	-
					Fluoride	-	-	-
					Lead	4	-	Yes
					Nickel	<6	-	Yes
					Toluene	-	-	-
					Xylene	-	-	-
					Zinc	<13	-	Yes

(Continued)

Current Condition (ug/l) (Note 2)	Standard Achieved by 2010 (ug/l)	Standard Type	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Yes/What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principal Source of Pollution?	Is there identifiable Source please enter details
<20	20		Yes	No	-	-	-
<1	1.0		Yes	No	-	-	-
<4	15		Yes	No	-	-	-
<7	5		No	No	-	-	-
5	10		Yes	No	-	-	-
1	10		Yes	No	-	-	-
<1	1500		Yes	No	-	-	-
1	5		Yes	No	-	-	-
4	25		Yes	No	-	-	-
1	10		Yes	No	-	-	-
<5	10		Yes	No	-	-	-
	40		Yes	No	-	-	-

Note (1): Heavy Metals mean of 2 samples.

Table B81: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	Monitoring Station Code	Station Name	Monitoring Station Code	Station Name	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/L CaCO3) (where applicable)	Baseline Quality Satisfactory?
FINGAL CO: COUNCIL	9	Point 41				Arsenic			
Broadmeadow Inner						Atrazine	<2		Yes
						Chromium	5		Yes
						Copper			
						Cyanide			
						Dichloromethane			
						Fluoride			
						Lead	4		Yes
						Nickel	<6		Yes
						Toluene			
						Xylene			
						Zinc	<5		No

(Continued)

Current Condition (µg/l) Note (2)	Water Hardness (mg/L CaCO3) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	(Yes) What is the Revised Compliance Date?	Where is the Unsatisfactory What is the Principle Source of Pollution?	If here is identifiable Source please enter details
10		20	Yes	No			
<1		1.0	Yes	No			
8		15	Yes	No			
1		5	Yes	No			
5		10	Yes	No			
6		10	Yes	No			
<1		1,500	Yes	No			
<1		5	Yes	No			
1		25	Yes	No			
1		10	Yes	No			
1		10	Yes	No			
<2		40	Yes	No			

Note (1): Heavy Metals 1 sample taken.

Table B82: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	Estuary Code	Monitoring Station Name	Station Location	Measures Report Year	Baseline Condition (µg/l)	Dangerous Substance	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
FINGAL CO. COUNCIL	-	9	Point 41	31 st July '05-31 st Aug '06	-	Arsenic	-	-
Broadmeadow Inner	-	-	-	-	-	Atrazine	-	-
					←2	Chromium	-	Yes
					5	Copper	-	Yes
					-	Cyanide	-	-
					-	Dichloromethane	-	-
					-	Fluoride	-	-
					4	Lead	-	Yes
					←6	Nickel	-	Yes
					-	Toluene	-	-
					-	Xylene	-	-
					45	Zinc	-	No

(Continued)

Current Condition (µg/l) Note(2)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard been Achieved?	Does Article 13(9) Extension Apply?	Yes/What is the Revised Compliance Date?	Water Quality Unacceptable? (What is the principle source of pollution?)	If there is an identifiable source please enter details
←21		20	No	No	-	-	-
←1		1.0	Yes	No	-	-	-
←4		15	Yes	No	-	-	-
7		5	No	No	-	-	-
5		10	Yes	No	-	-	-
9		10	Yes	No	-	-	-
←1		1,500	Yes	No	-	-	-
1		5	Yes	No	-	-	-
4		25	Yes	No	-	-	-
1		10	Yes	No	-	-	-
1		10	Yes	No	-	-	-
←5		40	Yes	No	-	-	-

Note (1): Heavy Metals mean of 2 samples.

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Table B83: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	Estuary Name	Monitoring Station Code	Station Name	Grid Reference	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l as CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
FINGAL CO. COUNCIL			10	Point 42	Arsenic	-		-
	Broadmeadow Inner				Atrazine	-		-
					Chromium	<2		Yes
					Copper	5		Yes
					Cyanide	-		-
					Dichloromethane	-		-
					Fluoride	-		-
					Lead	4		Yes
					Nickel	<6		Yes
					Toluene	-		-
					Xylene	-		-
					Zinc	8		Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 31(6) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle Source of Pollution?	Is there an identifiable Source, please enter details
<1		20	Yes	No	-		-
<1		1.0	Yes	No	-		-
9		15	Yes	No	-		-
1		5	Yes	No	-		-
5		10	Yes	No	-		-
1		10	Yes	No	-		-
<1		1,500	Yes	No	-		-
<1		5	Yes	No	-		-
2		25	Yes	No	-		-
1		10	Yes	No	-		-
<2		40	Yes	No	-		-

Note (1): Heavy Metals 1 sample taken.

Table B84: River Water Quality Standards to be achieved by 2010 BROADMEADOW ESTUARY (INNER)

Local Authority Name	Estuary Code	Monitoring Station Code	Station Name	Grid Reference (Note:1)	Measures Report Year		Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
					31 st July '05-31 st Aug '06				
Broadmeadow Inner	-	-	10	Point 42	-	Arsenic	-	-	-
						Atrazine			-
						Chromium	<2		Yes
						Copper	5		Yes
						Cyanide			-
						Dichloromethane			-
						Fluoride			-
						Lead	.4		Yes
						Nickel	<6		Yes
						Toluene			-
						Xylene			-
						Zinc	19		Yes

(Continued)

Current Condition (µg/l) (Note:2)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Yes/What is the Revised Compliance Date?	Water Quality Un satisfactory (What is the Principle(s) of Pollution?)	If the item is identifiable Source, please enter details
19		20	Yes	No			
<1		1.0	Yes	No			
3		15	Yes	No			
6		5	No	No			
5		10	Yes	No			
1		10	Yes	No			
<1		1,500	Yes	No			
1		5	Yes	No			
<5		25	Yes	No			
1		10	Yes	No			
1		10	Yes	No			
<5		40	Yes	No			

Note (1): Heavy Metals mean of 2 samples.

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Table B85: River Water Quality Standards to be achieved by 2010 BALDOYLE ESTUARY (INNER)

Local Authority Name	Estuary Code	Monitoring Station Code	Station Location Name	Grid Reference Note (1)	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO3) (Where applicable)	31st July '04 - 31st July '05	Baseline Quality Satisfactory?
Baldoye Estuary (Inner)	-	-	Golf Links Road	Point 43	Arsenic	-	-	-	-
					Atrazine	-	-	-	-
					Chromium	<2	-	-	Yes
					Copper	5	-	-	Yes
					Cyanide	-	-	-	-
					Dichloromethane	-	-	-	-
					Fluoride	-	-	-	-
					Lead	4	-	-	Yes
					Nickel	<6	-	-	Yes
					Toluene	-	-	-	-
					Xylene	-	-	-	-
					Zinc	-	-	-	Yes

(Continued)

Current Condition (µg/l)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes, What is the Revised Compliance Date?	Where Quality is Unsatisfactory, What is the Principle source of Pollution?	If there is an identifiable source, please enter details
5	20	Yes	No	-	-	-
<1	1.0	Yes	No	-	-	-
9	15	Yes	No	-	-	-
1	5	Yes	No	-	-	-
5	10	Yes	No	-	-	-
1	10	Yes	No	-	-	-
<1	1500	Yes	No	-	-	-
<1	5	Yes	No	-	-	-
7	25	Yes	No	-	-	-
1	10	Yes	No	-	-	-
1	10	Yes	No	-	-	-
<2	40	Yes	No	-	-	-

Note (1): Heavy Metals 1 sample taken.

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Table B86: River Water Quality Standards to be achieved by 2010 BALDOYLE ESTUARY (INNER)

Local Authority Name	Estuary Code	Monitoring Station Code	Station Name	Station Location	Measures Report Year	31st July '05-31st Aug '06
FINGAL CO. COUNCIL						
Baldyle Estuary (Inner)			Golf Links Road	Point 43	Arsenic	
					Atrazine	
					Chromium	<2
					Copper	5
					Cyanide	
					Dichloromethane	
					Fluoride	
					Lead	4
					Nickel	<6
					Toluene	
					Xylene	
					Zinc	.19
						Yes

(Continued)

Current Condition (ug/l)	Standard to be Achieved by 2010 (ug/l)	Water Hardness (mg/l CaCO3) (where applicable)	Has Standard been Achieved?	Does Article 3(b) Extension Apply?	Yes/What is the Review/Compliance Date	Unsatisfactory/What is the principle source of pollution?	Is there an identifiable source please enter details
3	20		Yes	No			
<1	1.0		Yes	No			
5	15		Yes	No			
3	5		Yes	No			
5	10		Yes	No			
1	10		Yes	No			
2	1,500		Yes	No			
2	5		Yes	No			
4	25		Yes	No			
1	10		Yes	No			
1	10		Yes	No			
<9	40		Yes	No			

Note (1): Heavy Metals 1 sample taken.

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Table B87: River Water Quality Standards to be achieved by 2010 BALDOYLE ESTUARY (INNER)

Local Authority Name		FINGAL CO. COUNCIL		Measures Report Year		31 st July '04-31 st July '05		
Estuary Name	Estuary Code	Monitoring Station Code	Station Location Name	Station Reference Note (1)	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (Where applicable)	Baseline Quality Satisfactory?
Baldyle Estuary (Inner)	-	-	Rear of Golf Club	Point 44	Arsenic	-	-	-
					Atrazine	-	-	-
					Chromium	<2	-	Yes
					Copper	5	-	Yes
					Cyanide	-	-	-
					Dichloromethane	-	-	-
					Fluoride	-	-	-
					Lead	4	-	Yes
					Nickel	<6	-	Yes
					Toluene	-	-	-
					Xylene	-	-	-
					Zinc	-	-	Yes

Current Condition (µg/l) Note (2)	Water Hardness (mg/l CaCO ₃) (Where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Apply?	(If Yes) What is the Revised Compliance Date?	(If Yes) What is the Principal Source of Pollution?	Where is Quality Unsatisfactory? What is the Principal Source of Pollution?	(If there is an identifiable Source, please enter details)
9	-	20	Yes	No	-	-	-	-
<1	-	1.0	Yes	No	-	-	-	-
4	-	15	Yes	No	-	-	-	-
1	-	5	Yes	No	-	-	-	-
5	-	10	Yes	No	-	-	-	-
1	-	10	Yes	No	-	-	-	-
<1	-	1,500	Yes	No	-	-	-	-
<1	-	5	Yes	No	-	-	-	-
3	-	25	Yes	No	-	-	-	-
1	-	10	Yes	No	-	-	-	-
1	-	10	Yes	No	-	-	-	-
<2	-	40	Yes	No	-	-	-	-

Note (1): Heavy Metals 1 sample taken.

Table B89: River Water Quality Standards to be achieved by 2010 BALDOYLE ESTUARY (INNER)

Local Authority Name		FINGAL CO. COUNCIL			Measures Reported		31 st July '04-31 st July '05	
Estuary Name	Estuary Code	Monitoring Station Code	Station Location Name	Station Reference Note(s)	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Baseline Quality Satisfactory?
Baldoye Estuary (Inner)	-	-	Rear of Baldoye Church	Point 46	Arsenic	-	-	-
				-	Atrazine	<2	-	-
				-	Chromium	5	-	Yes
				-	Copper	-	-	Yes
				-	Cyanide	-	-	-
				-	Dichloromethane	-	-	-
				-	Fluoride	-	-	-
				-	Lead	4	-	Yes
				-	Nickel	<6	-	Yes
				-	Toluene	-	-	-
				-	Xylene	-	-	-
				-	Zinc	-	-	Yes

(Continued)

Current Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	If Yes: What is the Revised Compliance Date?	Where Quality is Unsatisfactory: What is the Principal source of Pollution?	If there is an identifiable Source please enter details
4	-	20	Yes	No	-	-	-
<1	-	1.0	Yes	No	-	-	-
4	-	15	Yes	No	-	-	-
1	-	5	Yes	No	-	-	-
5	-	10	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
<1	-	1,500	Yes	No	-	-	-
<1	-	5	Yes	No	-	-	-
3	-	25	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
1	-	10	Yes	No	-	-	-
<2	-	40	Yes	No	-	-	-

Note (1): Heavy Metals 1 sample taken.

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Table B90: River Water Quality Standards to be achieved by 2010 BALDOYLE ESTUARY (INNER)

Local Authority Name	FINGAL CO. COUNCIL		AVAS Assessment Report Year	31 st July '05-31 st Aug '06				
Estuary Name	Estuary Code	Monitoring Station Code	Station Location Name	Ground Reference Note (if applicable)	Dangerous Substance	Baseline Condition (µg/l)	Water Hardness (mg/l CaCO ₃) (where applicable)	Is Baseline Quality Satisfactory?
Baldoye Estuary (Inner)	-	-	Rear of Baldoye Church	Point 46	Arsenic	-	-	-
					Atrazine	-	-	-
					Chromium	<2	-	Yes
					Copper	5	-	Yes
					Cyanide	-	-	-
					Dichloromethane	-	-	-
					Fluoride	-	-	-
					Lead	4	-	Yes
					Nickel	<6	-	Yes
					Toluene	-	-	-
					Xylene	-	-	-
					Zinc	28	-	Yes

(Continued)

Current Condition (µg/l) (Note 2)	Water Hardness (mg/l CaCO ₃) (where applicable)	Standard to be Achieved by 2010 (µg/l)	Has Standard Been Achieved?	Does Article 3(9) Extension Apply?	Yes/What is the Revised Compliance Date?	Yes/What is the Revised Compliance Date?	Is Water Quality Unsatisfactory? What is the Problem Source or Pollutant?	If there is an identifiable Source please enter details
4		20	Yes	No	-	-	-	-
<1		1.0	Yes	No	-	-	-	-
3		15	Yes	No	-	-	-	-
5		5	Yes	No	-	-	-	-
5		10	Yes	No	-	-	-	-
1		10	Yes	No	-	-	-	-
2		1,500	Yes	No	-	-	-	-
1		5	Yes	No	-	-	-	-
34		25	No	No	-	-	-	-
1		10	Yes	No	-	-	-	-
1		10	Yes	No	-	-	-	-
<7		40	Yes	No	-	-	-	-

Note (1): Heavy Metals 1 sample taken.

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APPENDIX C
IMPLEMENTATION PROGRAMME SUMMARY TABLES

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Table C.1 Implementation Programme Summary Table: DELVIN RIVER [08/D/01]

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action completed within timeframe (Y/N)?	If not State Revised Timeframe
To maintain satisfactory water quality in the Delvin	Upgrade Garristown WWTP	Minimise inputs of dangerous substances to the river.	Upgrade wastewater treatment facilities using the best available technology not entailing excessive costs.		Senior Engineer Design and Planning.	Due to be commissioned Nov 06		No timeframe applied	
	Address surface water infiltration in foul drainage system at Garristown.	Reduce P losses by resolving flooding problem.	Quantify extent of problem and rectify.	31/07/04	Senior Executive Engineer Drainage Maintenance	2002 Works Programme provides for carrying out a flow survey	Works have been completed	Y	
	Flow proportional sampling of Garristown and the Naul WWTW effluent.	Establish dangerous substances loading from wastewater treatment works.	Carry out regular monitoring.	31/07/04	Senior Executive Engineer Pollution Control	Sampling Programme in place	Regular sampling ongoing. Responsibility transferred to Senior Executive Engineer Drainage Maintenance	Ongoing	
	Liaison structures with Meath County Council.	Increased efficiency in implementing measures.	Set up liaison structures and hold regular meetings to coordinate policy.	Ongoing	Director of Services Water and Drainage Senior Engineer Design and Planning	Meetings held on a regular basis		Ongoing	
			Set up liaison structures and hold regular meetings to coordinate working arrangements and implementing measures on a catchment basis.	Ongoing	Senior Executive Engineer Pollution Control			Ongoing	
	Upgrade the Naul WWTP	Minimise inputs of dangerous substances to the river.	Upgrade wastewater treatment facilities using the best available technology not entailing excessive costs		Senior Engineer Design and Planning.		Going to tender July 06		

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Table C.2 Implementation Programme Summary Table: **BALLOUGH RIVER [08/B/03]**

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed within Timeframe (Y/N)?	If not State Revised Timeframe
To maintain satisfactory water quality in the Ballyough	Flow proportional sampling of Colecot WWTP effluent.	Establish dangerous substances loading from wastewater treatment works.	Carry out regular monitoring.	31/07/04	Senior Executive Engineer Pollution Control	Regular sampling of Colecot not possible as discharge is to groundwater	Periodic monitoring to ensure no discharge to waters. Liason with Drainage Section.	Ongoing	

Table C.3 Implementation Programme Summary Table: **BALLYBOGHIL [08/B/01]**

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed within Timeframe (Y/N)?	If not State Revised Timeframe
To maintain satisfactory water quality in the Ballyboghil	Flow proportional sampling of Oldtown and Ballyboghil WWTP effluent.	Establish dangerous substances loading from wastewater treatment works.	Carry out regular monitoring.	Ongoing	Senior Executive Engineer Pollution Control	Sampling programme in place.		Ongoing	
	Upgrade Oldtown and Ballyboghil WWTP	Minimise inputs of dangerous substances to the river.	Upgrade wastewater treatment facilities using the best available technology not entailing excessive costs	Not known	Senior Executive Engineer Drainage Design	Ballyboghil to be commissioned in Nov 06. Oldtown to go to tender July 06			

Table C-4 Implementation Programme Summary Table: BROADMEADOW RIVER (08/B/02)

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed within Timeframe (Y/N)?	Final State Revised Timeframe
To maintain satisfactory water quality in the Broadmeadow	Water Quality Plan for the Broadmeadow Estuary and Catchment to include the Broadmeadow River.	Implement Plan to reduce dangerous substances inputs to waters.	Draft Water Quality Plan in conjunction with Meath County Council for adoption by the County Council.	31/07/04	Fingal County Council	Not commenced	BWQP to be included within the ERBD	N	Timeframe not known.
	Liaison structures with Meath County Council.	Increased efficiency in implementing measures.	Set up liaison structures and hold regular meetings to coordinate policy.	Ongoing	Director of Services Water and Drainage Senior Engineer Design and Planning	Meetings held on a regular basis		Ongoing	
			Set up liaison structures and hold regular meetings to coordinate working arrangements and implementing measures on a catchment basis.	31/07/04	Senior Executive Engineer Pollution Control	Contact made with Meath County Council		Ongoing	

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Table C.5 Implementation Programme Summary Table: WARD RIVER (08/W/01)

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed within Timeframe (Y/N)?	If not State Revised Timeframe
To maintain satisfactory water quality in the Ward	Water Quality Plan for the Broadmeadow Estuary and Catchment to include the Ward River.	Implement Plan to reduce dangerous substances inputs to waters	Draft Water Quality Plan in conjunction with Meath County Council for adoption by the County Council.	31/07/04	Fingal County Council	BWQP to be included within the ERBD		N	Timeframe not known
	Liaison structures with Meath County Council.	Increased efficiency in implementing measures.	Set up liaison structures and hold regular meetings to coordinate policy.	Ongoing	Director of Services Water and Drainage Senior Engineer Design and Planning	Meetings held on a regular basis		Ongoing	
			Set up liaison structures and hold regular meetings to coordinate working arrangements and implementing measures on a catchment basis.	31/07/04	Senior Executive Engineer Pollution Control	Contact made with Meath County Council		Ongoing	
	Flow proportional sampling of Toberburr WWTW effluent.	Establish dangerous substances loading from wastewater treatment works.	Carry out regular monitoring.	Ongoing	Senior Executive Engineer Pollution Control	Health & Safety concerns regarding Flow Proportional Monitoring in the WWTW	Composite sampling over 24 hours taken on a monthly basis. Responsibility taken over by Senior Executive Engineer, Drainage Operations	Ongoing	
	Decommission Toberbur WWTW	Reduce dangerous substances loading to the river.	Connect drainage network to Swords.	31/07/04	Senior Executive Engineer Pollution Control	Rising main constructed. New pumping station gone to tender.		N	31/07/05
	Remedy storm water overflows from combined systems in Swords.	Minimise dangerous substances inputs to the river.	Model network to identify sub standard sections. Upgrade pipelines and divert surface water from sewers.	31/07/04	Senior Engineer Design and Planning	Substantial work has been carried out in Swords upgrading sewers and diverting surface water in line with recommendations of catchment study.		Y	
	Remedy house misconnection	Minimise dangerous substances inputs to the river.	Carry out misconnection surveys. Where necessary follow up with enforcement under the Water Pollution Acts.	31/07/04	Senior Engineer Drainage maintenance		Ongoing	N	Ongoing

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Table C.6 Implementation Programme Summary Table: MAYNE [09/M/03]

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed within Timeframe (Y/N)	Final State Revised Timeframe
To maintain satisfactory water quality in the Mayne	Stakeholder consultation and co-operation.	Active involvement of stakeholders in implementing measures to reduce P inputs to rivers.	Participate in Pollution Control Committee for Dublin Airport to enable relevant organisations contribute to implementing measures.	Ongoing	Senior Executive Engineer Pollution Control	Aer Rianta has re activated pollution Control Meetings for Dublin Airport. Fingal Water Pollution Control is actively participating in process.		Ongoing	
	Liaison structures with Dublin City Council.	Increased efficiency in implementing measures.	Set up liaison structures and hold regular meetings to coordinate working arrangements and implementing measures on a catchment basis.	3/07/04	Senior Executive Engineer Pollution Control	Co-operation is maintained with Dublin City Council Water Pollution Control section.		Ongoing	
	Flow proportional sampling of Balgriffen WWTW effluent.	Establish dangerous substances loading from wastewater treatment works.	Carry out regular monitoring.	Ongoing	Senior Executive Engineer Pollution Control	Balgriffen WWTW has been decommissioned			
	Decommission Balgriffen WWTW	Reduce dangerous substances loading to the river.	Connect drainage network to North Fringe Sewer	3/07/04	Senior Engineer Design and Planning.	Balgriffen WWTW has been decommissioned		Y	

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Table C.7 Implementation Programme Summary Table: PINKEEN [09/P/02]

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed within Timeframe (Y/N/?)	At Risk/State Revised Timeframe
To maintain satisfactory water quality in the Pinkeen	Implement the Water Quality Plan for the Tolka River catchment.	Implement Plan to reduce dangerous substances inputs to waters	Implement Water Quality Plan in conjunction with Meath County Council and Dublin City Council.		ERBD	Reviewed with Meath County Council and Dublin City Council. Plan being incorporated into ERBD monitoring programme.		Ongoing	
	Liaison structures with Meath County Council.	Increased efficiency in implementing measures.	Set up liaison structures and hold regular meetings to coordinate policy.	Ongoing	Director of Services Water and Drainage Senior Engineer Design and Planning	Meetings held on a regular basis		Ongoing	
			Set up liaison structures and hold regular meetings to coordinate working arrangements and implementing measures on a catchment basis.	31/07/04	Senior Executive Engineer Pollution Control			Ongoing	
	Remedy storm water overflows from combined systems.	Minimise dangerous substances inputs to the river.	Model network to identify sub standard sections. Upgrade pipelines and divert surface water from sewers.	31/07/04	Senior Engineer Design and Planning.	The Drainage network has been modelled under the Greater Dublin Strategic Drainage Study to identify substandard overflows. Aim is to reduce spills from combined system overflows. Substantial work has been carried out in Swords.			
	Remedy house misconnections	Minimise dangerous substances inputs to the river.	Carry out misconnection surveys. Where necessary follow up with enforcement under the Water Pollution Acts.	31/07/04	Senior Engineer Drainage maintenance	Ongoing		N	Ongoing

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Table C.8 Implementation Programme Summary Table: TOLKA (09/T/01)

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed within Timeframe (Y/N)	If not, State Revised Timeframe
To maintain satisfactory water quality in the Tolka	Implement the Water Quality Plan for the Tolka River catchment.		Implement Water Quality Plan in conjunction with Meath County Council and Dublin City Council.		ERBD	Reviewed with Meath County Council and Dublin City Council. Plan being incorporated into ERBD monitoring programme.		Ongoing	
	Liaison structures with Meath County Council.	Increased efficiency in implementing measures.	Set up liaison structures and hold regular meetings to coordinate policy.	Ongoing	Director of Services Water and Drainage Senior Engineer Design and Planning	Meetings held on a regular basis		Ongoing	
			Set up liaison structures and hold regular meetings to coordinate working arrangements and implementing measures on a catchment basis.	31/07/04	Senior Executive Engineer Pollution Control			Ongoing	
	Remedy storm water overflows from combined systems.	Minimise dangerous substances inputs to the river.	Model network to identify sub standard sections. Upgrade pipelines and divert surface water from sewers.			The Drainage network has been modelled under the Greater Dublin Strategic Drainage Study to identify substandard overflows. Aim is to reduce spills from combined system overflows. Substantial work has been carried out in Swords.			
	Remedy house misconnections	Minimise dangerous substances inputs to the river.	Carry out misconnection surveys. Where necessary follow up with enforcement under the Water Pollution Acts.	31/07/04	Senior Engineer Drainage Maintenance			Ongoing	Ongoing

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Table C.9 Implementation Programme Summary Table: HURLEY RIVER [08H01]

Standard	Measures	Targets	Actions	Timeframe	Responsibility for Implementation	Progress to Date	Corrective Actions	Action Completed within Timeframe (Y/N)?	If not State Revised Timeframe
To maintain satisfactory water quality in the Hurley	Farm surveys	Examine farm management and practices to reduce dangerous substances inputs to rivers.	Carry out comprehensive farm survey for entire catchment and use the data as part of a pilot study for the rest of the county.	Ongoing	Senior Exec. Engineer Pollution Control	Farm surveys have not been carried out due to lack of staff	Investigate alternative means of carrying out Farm Surveys	Ongoing	
	Unlicensed discharge surveys.	Examine on site treatment systems to reduce dangerous substances inputs to rivers.	Carry out comprehensive survey for unlicensed discharges for entire catchment and use the data as part of a pilot study for the rest of the county.	Ongoing	Senior Exec. Engineer Pollution Control	Surveys have continued		Ongoing	
	On site treatment system surveys.	Ensure discharges to surface waters are licensed to reduce dangerous substances inputs to rivers.	Carry out comprehensive on site treatment plant survey for entire catchment and use the data as part of a pilot study for the rest of the county.	Ongoing	Senior Exec. Engineer Pollution Control	Septic Tank Surveys have not been carried out due to lack of staff	Investigating alternative means of carrying out Septic Tank Surveys	Ongoing	

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Table C.10 Implementation Programme Summary Table: SANTRY [09/S/01]

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed Within Timeframe (Y/N)?	If not, State Revised Timeframe
To maintain satisfactory water quality in the Santry	Stakeholder consultation and co-operation.	Active involvement of stakeholders in implementing measures to reduce P inputs to rivers.	Participate in Pollution Control Committee for Dublin Airport to enable relevant organisations contribute to implementing measures.	31/07/04	Senior Executive Engineer Pollution Control	Aer Rianta has re activated pollution Control Meetings for Dublin Airport. Fingal Water Pollution Control is actively participating in process.		Ongoing	
	Reduce overflows to river	Reduce dangerous substances inputs to the river.	Connect drainage network to North Fringe Sewer	31/07/04	Senior Engineer Design and Planning.	North Fringe sewer has been completed		Y.	
			Upgrade Santry pumping station	31/07/04	Senior Engineer Design and Planning.	Proposal has been drawn up. Date yet to be decided.		N	
	Remedy house misconnections	Reduce dangerous substances inputs to the river.	Carry out misconnection surveys. Where necessary follow up with enforcement under the Water Pollution Acts.	31/07/04	Senior Engineer Drainage Maintenance		Ongoing	N	Ongoing

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Table C.11 Implementation Programme Summary Table: SLUICE

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed within Timeframe (Y/N)?	If not, State Revised Timeframe
To maintain satisfactory water quality in the Sluice	Stakeholder consultation and co-operation.	Active involvement of stakeholders in implementing measures to reduce P inputs to rivers.	Participate in Pollution Control Committee for Dublin Airport to enable relevant organisations contribute to implementing measures.	31/07/04	Senior Executive Engineer Pollution Control	Aer Rianta has re activated pollution Control Meetings for Dublin Airport. Fingal Water Pollution Control is actively participating in process.		Ongoing	

Table C.12 Implementation Programme Summary Table: GAYBROOK STREAM

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed within Timeframe (Y/N)?	If not, State Revised Timeframe
To maintain satisfactory water quality in the Gaybrook	Remedy storm water overflows from combined systems.	Minimise dangerous substances inputs to the river.	Model network to identify sub standard sections. Upgrade pipelines and divert surface water from sewers.	31/07/04	Senior Engineer Design and Planning.	The Drainage network has been modelled under the Greater Dublin Strategic Drainage Study to identify substandard overflows. Aim is to reduce spills from combined system overflows. Substantial work has been carried out in Swords.		Ongoing	
	Remedy house misconnections	Reduce dangerous substances inputs to the river.	Carry out misconnection surveys. Where necessary follow up with enforcement under the Water Pollution Acts.	31/07/04	Senior Engineer Drainage Maintenance		Ongoing	N	Ongoing

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Table C.13 Implementation Programme Summary Table: MILL STREAM

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed within Timeframe (Y/N)?	If Not State Revised Timeframe
To maintain satisfactory water quality in the Mill Stream	Remedy storm water overflows from combined systems.	Minimise dangerous substances inputs to the river.	Model network to identify sub standard sections. Upgrade pipelines and divert surface water from sewers.	31/07/04	Senior Engineer Design and Planning.	The Drainage network has been modelled under the Greater Dublin Strategic Drainage Study to identify substandard overflows. Certain improvement works have been recommended but a completion date for these works has not yet been decided.			
	Remedy house misconnections	Reduce dangerous substances inputs to the river.	Carry out misconnection surveys. Where necessary follow up with enforcement under the Water Pollution Acts.	31/07/04	Senior Engineer Drainage Maintenance		Ongoing	N	Ongoing

Table C.14 Implementation Programme Summary Table: ROGERSTOWN ESTUARY (INNER)

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed within Timeframe (Y/N)?	If Not State Revised Timeframe
To maintain satisfactory water quality in the County as a whole	Monitoring measures in the vicinity of Ballealy Landfill.	Establish current water quality condition.	Implement monitoring programme in the vicinity of the landfill. Co-ordinate monitoring with requirements of landfill licence.	31/07/04	Senior Exec. Engineer Pollution Control	Liaison with Environment Section. Biannual monitoring carried out in vicinity of landfill.			

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Table C.15 Implementation Programme Summary Table: **BROADMEADOW ESTUARY (INNER)**

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed within Timeframe (Y/N)?	If not, State Revised Timeframe
To maintain satisfactory water quality in the Broadmeadow Estuary	Water Quality Plan for the Broadmeadow Estuary and Catchment to include the Ward River.	Implement Plan to reduce dangerous substances inputs to waters	Draft Water Quality Plan in conjunction with Meath County Council for adoption by the County Council.	31/07/04	Fingal County Council	Broadmeadow Water Quality Plan to be produced in as part of the ERBD		N	31/07/04
	Remedy house misconnections	Reduce dangerous substances inputs to the estuary	Carry out misconnection surveys. Where necessary follow up with enforcement under the Water Pollution Acts.	31/07/04	Senior Engineer Drainage Maintenance		Ongoing	N	Ongoing

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Table C.16 Implementation Programme Summary Table: **BALDOYLE ESTUARY**

Standard	Measures	Targets	Actions	Timeframe	Responsible for Implementation	Progress to Date	Corrective Actions	Action Completed within Timeframe (Y/N)?	If not, State Revised Timeframe
To maintain satisfactory water quality in the County as a whole	Reduce overflows to the estuary.	Reduce dangerous substances inputs to the estuary.	Connect drainage network to North Fringe Sewer Upgrade network	31/07/04 31/07/06	Senior Engineer Design and Planning.	North Fringe sewer has been completed			
	Remedy house misconnections	Reduce dangerous substances inputs to the estuary.	Carry out misconnection surveys. Where necessary follow up with enforcement under the Water Pollution Acts.	31/07/04	Senior Engineer Drainage Maintenance		Ongoing	N	Ongoing

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