

Protection Agency

 Name
 Owenboy (River)(19\_726)

 position
 168753,63259 (ING)

## Segment Map



## Disclaimer



Environmental Protection Agency

## Disclaimer

The source of hydrometric data used to estimate the flow duration curve ordinates for ungauged catchments was obtained from (1) water level data and (2) the rating curve(s) generated for each hydrometric station. The Environmental Protection Agency and the Office of Public Works used these data, respectively, to calculate daily mean flows. The daily mean flows were then used by the Environmental Protection Agency to prepare flow duration curves for each station. Neither body accepts any liability for the subsequent handling of the data.

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- any other special circumstances that may affect river flows.

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Please note that the model does not provide estimates of flood peaks and, specifically, should not be used for that purpose.

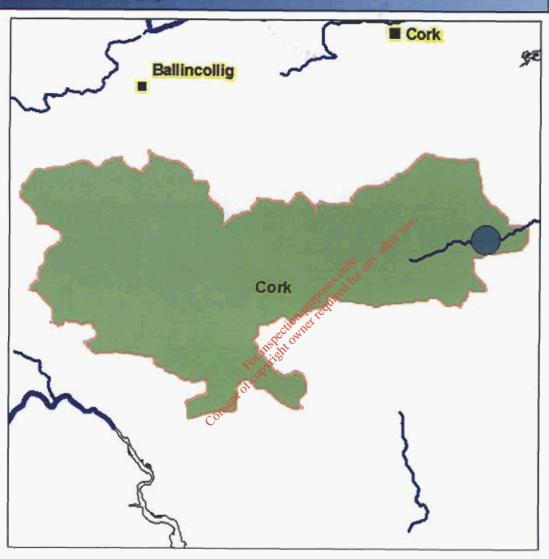
The EPA has also prepared estimates of DWF and long term 95 percentile flows which are also presented on the EPA web site. These data are presented at <a href="http://www.epa.ie/whatwedo/monitoring/water/hydrometrics/data/">http://www.epa.ie/whatwedo/monitoring/water/hydrometrics/data/</a>

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River Name	Owenboy (River)(19_726)	
XY Location	168753,63259 (ING)	

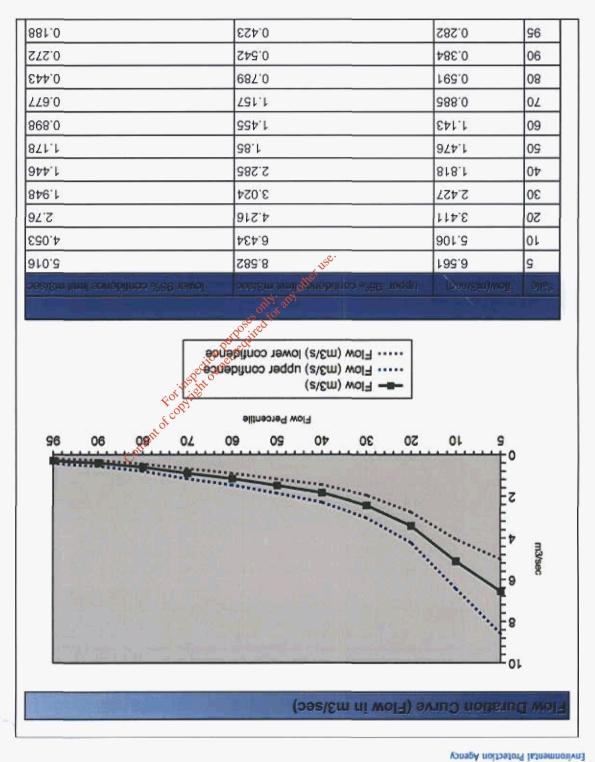
## Nested Catchment Map



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Estin

Estimation of Flow Duration Curve for Ungauged Catchment



Catchment Descriptors			
General General			
Descriptor	Unit	Value	
Area	sq km	94.7	
Average Annual Rainfall (61-90)	mm/yr	1165	
Stream Length	km	97.5	
Drainage Density	Channel length (km)/catchment area (sqkm)	1	
Slope	Percent Slope	7.1	
FARL	Index (range 0:1)	1	

Soil Control of the C		
Code		% of Catcinnent
Poorly Drained		15.6
Well Drained	T Itse.	76.9
Alluvmin	a. A other	6.7
Peat	as off tot and	0
Water	authorited for the	0
Made	citon perkuit	0.9

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Subsoil Permeability		
Cone	Explenation	% of Catchment
н	High	0.5
М	Moderate	50.8
L	Low	12.3
ML	Moderate/Low	0
NA	No Subsoil/Bare Rock	36.4

Aquifer		
Code	Signation	% of Catchment
LG_RG	LG:Locally important sand-gravel aquifer RG: Regionally important sand-gravel aquifer	6.8
LL	Locally important aquifer which is moderately productive only in local zones	92.7
LM_RF	LM: Locally important aquifer which is generally moderately productive RF: Regionally important fissured bedrock aquifer	; 🔊
PU_PL	LM: Locally important aquifer which is generally moderately productive RF: Regionally important fissured bedrock aquifer PU: Poor aquifer which is generally unproductive PL: Poor aquifer which is generally unproductive except for local zones  Regionally important karstified aquifer dominated by conduit flow Regionally important karstified aquifer dominated by diffuse flow	0
RKC_RK	Regionally important karstified aquifer dominated by conduit flow	0
RKD_LK	Regionally important karstified aquifer dominated by diffuse flow	0.6

	fallen 1	FC ion 2	Station 3
5	19001	25044	16014
10	19001	25044	25038
20	19001	25044	25038
30	19001	25044	25038
40	19001	25044	25038
50	19001	18005	19032
60	19001	18005	19032
70	19001	18005	19032
80	19001	18005	16003
90	19001	18005	16003
95	19001	18005	16003

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## low Duration Curve (mm on catchment) 2.5 mm on catchment 2 0.5 0= 20 70 10 30 40 50 60 80 90 95 Flow Percentile - flow using simple average .... simple average upper confidence --- simple average lower confidence

Log Flow (mm possibilitient).  Wile mm upper 95% confidence limit lower 95% confidence limit			
	9900	upper 95% confidences (in)	Josver 95% confidence limit
5	3.34	્રું તુરિ 3.457	3.223
10	3.231	3.457 3.331 Consent 3.148	3.131
20	3.056	COF 3.148	2.964
30	2.908	3,004	2.812
40	2.783	2.882	2.684
50	2.692	2.79	2.594
60	2.582	2.687	2.477
70	2.47	2.586	2.354
80	2.296	2.422	2.17
90	2.108	2.258	1.958
95	1.977	2.153	1.801

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**Environmental Protection Agency** 

Owenboy (River)(19\_726) ver Name

168753,63259 (ING)

## iver Segment Map



## Disclaimer

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## Disclaime



**Environmental Protection Agency** 

 River Name
 Owenboy (River)(19\_1600)

 XY Location
 167146,62870 (ING)

## River Segment Map



## Disclaimer

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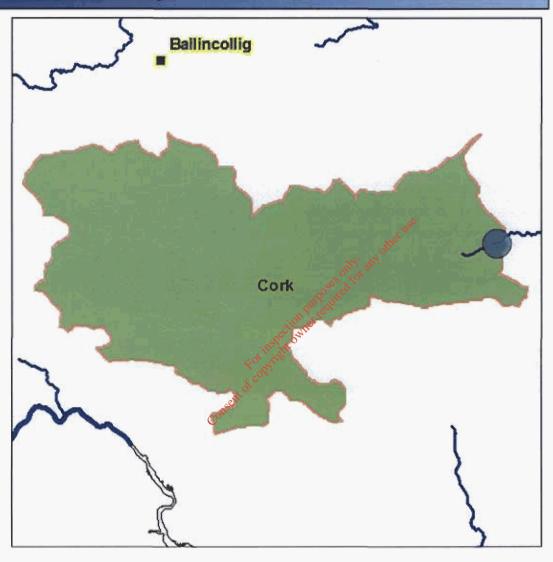
## Disclaime

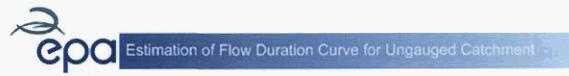


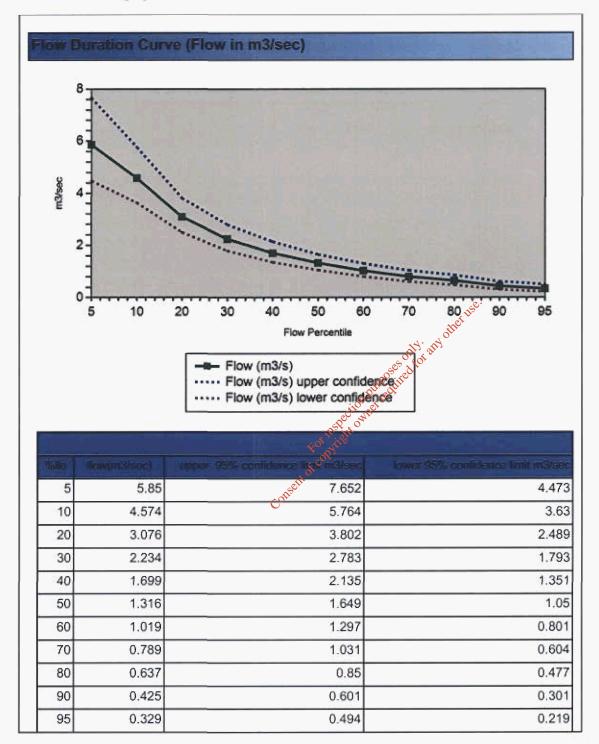
**Environmental Protection Agency** 

River Name	Owenboy (River)(19_1600)
XY Location	167146,62870 (ING)

## ed Catchment Map







## Disclaime



Environmental Protection Agency

Catchment Descriptors  General			
Area	sq km	84.4	
Average Annual Rainfall (61-90)	mm/yr	1166	
Stream Length	km	83.9	
Drainage Density	Channel length (km)/catchment area (sqkm)	1	
Slope	Percent Slope	6.9	
FARL	Index (range 0:1)	1	

Soil Control of the C		
Code		% of Catchment
Poorly Drained		16.9
Well Drained	T. IIse.	74.9
Alluvmin	1. A office	7.5
Peat	्र वर्गारी वर्षे	0
Water	authorities for	0
Made	cited refrective	0.7

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## **Environmental Protection Agency**

Subsoil Permeability			
Code	Explanation	% of Catchment	
Н	High	0.3	
М	Moderate	53.3	
L	Low	13.5	
ML	Moderate/Low	0	
NA	No Subsoil/Bare Rock	32.9	

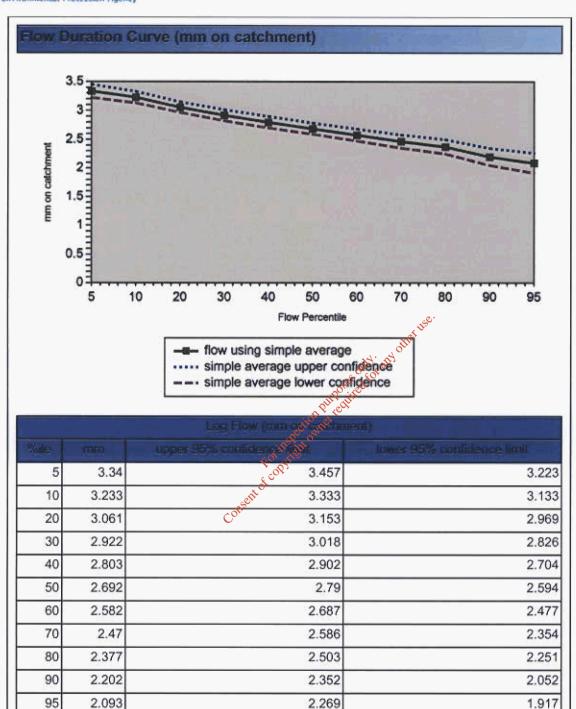
Aquifer Annual Transport of the Street of th			
Code	Explanation	% of Catchment	
LG_RG	LG:Locally important sand-gravel aquifer RG: Regionally important sand-gravel aquifer	7.6	
LL	Locally important aquifer which is moderately productive only in local zones	92.4	
LM_RF	LM: Locally important aquifer which is generally moderately productive RF: Regionally important fissured bedrock aquifer	ð	
PU_PL	LM: Locally important aquifer which is generally moderately productive RF: Regionally important fissured bedrock aquifer PU: Poor aquifer which is generally unproductive PL: Poor aquifer which is generally unproductive except for local zones Regionally important karstified aquifer dominated by conduit flow Regionally important karstified aquifer dominated by diffuse flow	0	
RKC_RK	Regionally important karstified aquifer dominated by conduit flow	0	
RKD_LK	Regionally important karstified aquifer dominated by diffuse flow	0.1	

tations in Pooling group				
%ite Flour	Station 1	SCition 2	Station 3	
5	19001	16014	25044	
10	19001	25038	16014	
20	19001	25038	16014	
30	19001	25038	16014	
40	19001	25038	16014	
50	19001	18005	19032	
60	19001	18005	19032	
70	19001	18005	19032	
80	19001	18005	12016	
90	19001	18005	12016	
95	19001	18005	12016	

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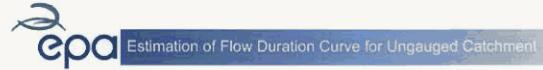


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Owenboy (River)(19\_724) iver Name Location 168394,63206 (ING)



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## Disclaime

River Name	Owenboy (River)(19_724)
XY Location	168394,63206 (ING)

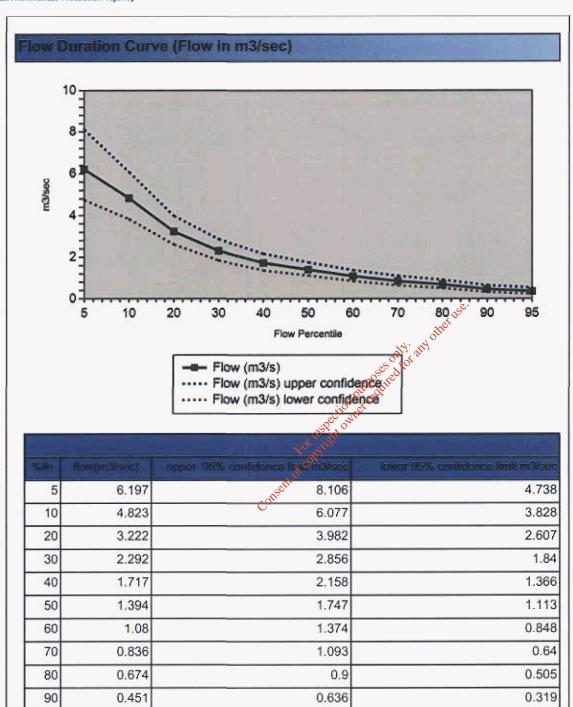
## **Nested Catchment Map**



## Disclaime



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## Disclaime

95

0.349

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0.523

0.232



**Environmental Protection Agency** 

Catchment Descriptors  General				
Area	sq km	89.4		
Average Annual Rainfall (61-90)	mm/yr	1166		
Stream Length	km	91.1		
Drainage Density	Channel length (km)/catchment area (sqkm)	1		
Slope	Percent Slope	7		
FARL	Index (range 0:1)	1		

Soil				
Code		% of Catchment		
Poorly Drained		16.4		
Well Drained	1 use	75.7		
Alluvmin	i. A office	7.1		
Peat	as often are	0		
Water	authoritied for	0		
Made	- tion retrieve	0.9		

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**Environmental Protection Agency** 

Subsoi	Subsoil Penneability				
Code	Explanation	% of Catchment			
Н	High	0.4			
М	Moderate	52.3			
L	Low	13			
ML	Moderate/Low	0			
NA	No Subsoil/Bare Rock	34.2			

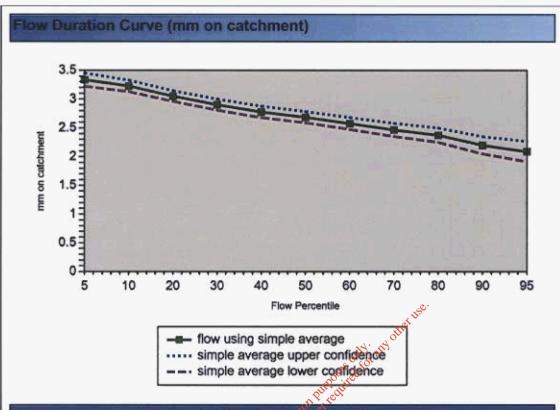
Aquifer			
Code	Explanation	% of Catchinent	
LG_RG	LG:Locally important sand-gravel aquifer RG: Regionally important sand-gravel aquifer	7.2	
LL	Locally important aquifer which is moderately productive only in local zones	92.6	
LM_RF	LM: Locally important aquifer which is generally moderately productive RF: Regionally important fissured bedrock aquifer PU: Poor aquifer which is generally unproductive PL: Poor aquifer which is generally unproductive except for local zones  Regionally important karstified aquifer dominated by conduit flow Regionally important karstified aquifer dominated by diffuse flow	5 0	
PU_PL	PU: Poor aquifer which is generally unproductive PL: Poor aquifer which is generally unproductive except for local zones	0	
RKC_RK	Regionally important karstified aquifer dominated by conduit flow	0	
RKD_LK	Regionally important karstified aquifer dominated by diffuse flow	0.2	

ale Flour S	tation f	SCHON 2	Station 3
5	19001	25044	16014
10	19001	25044	25038
20	19001	25044	25038
30	19001	25044	25038
40	19001	25044	25038
50	19001	18005	19032
60	19001	18005	19032
70	19001	18005	19032
80	19001	18005	12016
90	19001	18005	12016
95	19001	18005	12016

## Disclaime



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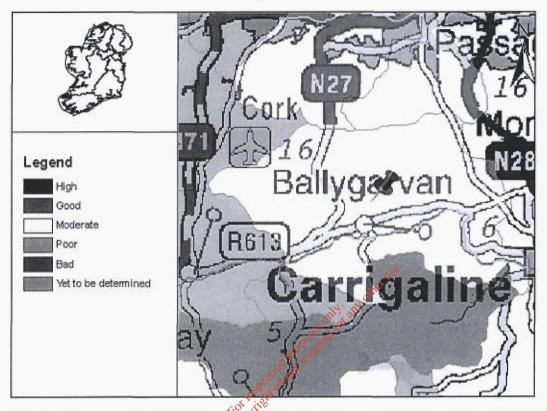


%ile	min	Log Flow (nim go gavetune upper 95% confidence and	lower 95% confidence fimil
5	3.34	3.457 3.331 Con 3.148	3.22
10	3.231	3.331	3.13
20	3.056	3.148	2.96
30	2.908	3.004	2.81
40	2.783	2.882	2.68
50	2.692	2.79	2.59
60	2.582	2.687	2.47
70	2.47	2.586	2.35
80	2.377	2.503	2.25
90	2.202	2.352	2.05
95	2.093	2.269	1.91

## Disclaimer

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River Basin Management Plans (RBMPs) have been published for all River Basin Districts in treland in accordance with the requirements of the Water Framework Directive. The WaterMaps viewer is an integral part of the River Basin Management Plan and provides access to information at individual waterbody level and at Water Management Unit level for all the River Basin Districts in Ireland.

The following report provides summary plan information about the selected waterbody (indicated by the pin in the map above) relating to its status, risks, objectives, and measures proposed to retain status where this is adequate, or improve it where necessary. Waterbodies can relate to surface waters (these include rivers, lakes, estuaries [transitional waters], and coastal waters), or to groundwaters. Other relevant information not included in this report can be viewed using the WaterMaps viewer, including areas listed in the Register of Protected Areas.

You will find brief notes at the bottom of some of the individual report sheets that will help you in interpreting the information presented. More detailed information can be obtained in relation to all aspects of the RBMPs at www.wfdireland.ie.

Date Reported to Europe:July 2010

Date Report Created 17/07/2012

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**Summary Information:** 

Water Management Unit:

IE\_SW\_LowerLee/Owenboy

WaterBody Category:

River Waterbody

WaterBody Name:

Owenboy

WaterBody Code:

IE\_SW\_19\_1968

**Overall Status:** 

Moderate

Overall Objective:

Restore\_2021

Overall Risk:

1a

At Risk

**Heavily Modified:** 

No

Report data based upon final RBMP, 2009-2015.

The information provided above is a summary of the principal findings related to the selected waterbody. Further details and explanation of individual elements of the report are outlined in the following pages.

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Date Reported to Europe:July 2010

Date Report Created 17/07/2012

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**Status Report** 

Water Management Unit:

IE\_SW\_LowerLee/Owenboy

WaterBody Category:

River Waterbody

WaterBody Name:

Owenboy

WaterBody Code:

IE\_SW\_19\_1968

**Overall Status Result:** 

Moderate

**Heavily Modified:** 

No

	Status Element Description	Result
	Status information	
Q	Macroinvertebrate status	Moderate
PC	General physico-chemical status	Fligh
FPQ	Freshwater Pearl Mussel / Macroinvertebrate status	N/A
DIA	Diatoms status	N/A
HYM	Hydromorphology status	N/A
FIS	Fish status	N/A
SP	Specific Pollutants status (SP) aut Quited	N/A
ES	Overall ecological status	Moderate
cs	Overall chemical status (PAS)	n/a
EXT	Extrapolated status	N/A
MON	Diatoms status Hydromorphology status Fish status Specific Pollutants status (SP) Overall ecological status Overall chemical status (PAS) Extrapolated status Monitored water body Donor water bodies  Consent of Macroinvertebrate status  Macroinvertebrate status  Hydromorphology status  Specific Pollutants status (SP)  Overall acological status  Hydromorphology status  Specific Pollutants status (SP)  Overall chemical status  Hydromorphology status  Overall ecological status  Overall chemical status  Hydromorphology status  Overall chemical status  Hydromorphology status  Overall ecological status  Overall chemical status  Hydromorphology status  Overall ecological status  Overall chemical status  Hydromorphology status  Overall ecological status  Overall chemical status  Hydromorphology status  Hydromorphology status  Overall ecological status  Hydromorphology status  Hydromorphology status  Overall ecological status  Hydromorphology status  Hydromorphology status  Overall chemical status  Hydromorphology status  Hydromorphology status  Hydromorphology status  Hydromorphology status  Overall ecological status  Hydromorphology status  Hydromorphology status  Hydromorphology status  Hydromorphology status  Hydromorphology status  Overall ecological status  Hydromorphology status  Hydromorphology status  Hydromorphology status  Overall ecological status  Hydromorphology status	YES
DON	Donor water bodies conser	N/A

n/a - not assessed

## Status

By 'Status' we mean the condition of the water in the waterbody. It is defined by its chemical status and its ecological status, whichever is worse. Waters are ranked in one of 5 status classes: High, Good, Moderate, Poor, Bad. However, not all waterbodies have been monitored, and in such cases the status of a similar nearby waterbody has been used (extrapolated) to assign status. If this has been done the first line of the status report shows the code of the waterbody used to extrapolate.

You can read more about status and how it is measured in our RBMP Document Library at www.wfdireland.ie (Directory 15 Status).

Date Reported to Europe:July 2010

Date Report Created 17/07/2012

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south western

Risk Report

Water Management Unit:

IE SW\_LowerLee/Owenboy

WaterBody Category:

River Waterbody

WaterBody Name:

Owenboy

WaterBody Code:

IE\_SW\_19\_1968

At Risk

Overall Risk Result:



Date Reported to Europe: July 2010 Date Report Created 17/07/2012 Consent of convirience on purposes only, any other use.



	Point Risk Sources	
RP1	WWTPs (2008)	Not At Risk
RP2	CSOs	Not At Risk
RP3	IPPCs (2008)	Not At Risk
RP4	Section 4s (2008)	Not At Risk
RP5	WTPs/Mines/Quarries/Landfills	N/A
RPO	Overall Risk from Point Sources - Worst Case (2008)	Not At Risk
	Q Value	
Q	EPA Q rating and Margaritifera Assessment	N/A
	Q/RDI or Point/Diffuse	
QPD	Q class/EPA Diffuse Model or worst case of Point and Diffuse (2008)	At Risk
	Rivers Direct Impacts	
RDI1	Rivers Direct Impacts - Dangerous Substances	N/A

By 'risk' we mean the risk that a waterbody will not achieve good ecological or good exemical status/potential at least by 2015. To examine risk the various pressures acting on the waterbody were identified along with any evidence of impact on water status. Depending on the extent of the pressure and its potential for interact, and the amount of information available, the risk to the water body was placed in one of four categories: 1a at risk; 1b probably at risk; 2a probably not at risk; 2b not at risk. Note that '2008' after the risk category means that the risk assessment was revised in 2008. All other risks were determined as part of an earlier risk assessment in 2006.

You can read more about risk assessment in our WFD Risk Assessment Update' document in the RBMP document library, and other documents at www.wfdireland.ie (Directors 31 Risk Assessments).

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Objectives Report

Water Management Unit: IE\_SW\_LowerLee/Owenboy

WaterBody Category:

River Waterbody

WaterBody Name:

Owenboy

WaterBody Code:

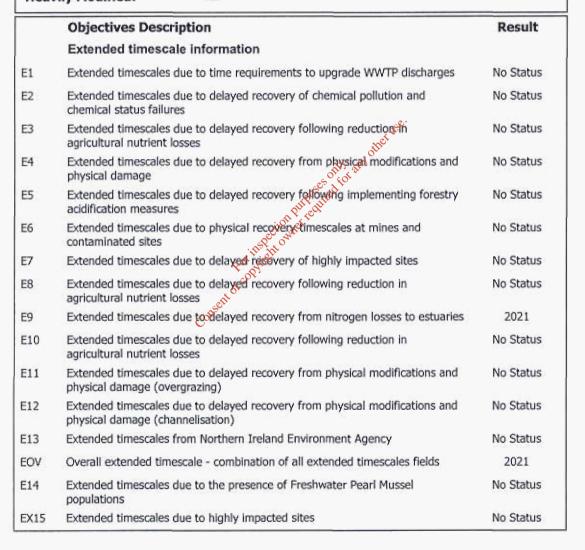
IE SW 19 1968

Overall Objective:

Reidings 2021

**Heavily Modified:** 

No



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1707 (900)	Overall objectives	OBO
sutat2 oM	Northern Ireland Environment Agency objective	OB2
sutat2 oV	Protected areas objective	OB4
sutst2 oN	Reduce chemical pollution objective	OB3
1707 (100)5591	Restore at least good status objective	OBS
No Status	Prevent deterioration objective	OBI
.*	Objectives information	

## Extended timescales

Extended timescales have been set for certain waters due to technical, economic, environmental or recovery constraints. Extended timescales are usually of one planning cycle (6 years, to 2021) but in some cases are two planning cycles (to 2027).

## Opjectives

In general, we are required to ensure that our waters achieve at least good status/potential by 2015, and that their status does not deteriorate. Having identified the status of waters (this is given earlier in this report), the next stage is to set objectives for waters consider waters that require protection from deterioration as well as waters that require restoration and the timescales needed for recovery. Four default objectives have been set initially:-

Prevent Defenoration
Restore Good Status
Reduce Chemical Pollution
Achieve Protected Areas Objectives

These objectives have been refined based on the measures available to achieve them, the latter's likely effectiveness, where the positive of cost-effective combinations of measures. Where the positive necessary extended deadlines have been set for achieving objectives in 2021 or 2021.

These consideration of cost-effective or 2021 o

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western

Measures Report

Water Management Unit: IE\_SW\_LowerLee/Owenboy

WaterBody Category:

River Waterbody

WaterBody Name:

Owenboy

WaterBody Code:

IE\_SW\_19\_1968

**Heavily Modified:** 



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'aur Plan

TP6	WSIP - Agglomerations where exisitng treatment capacity is currently adequate but predicted loadings would result in overloading	Yes
OTS .	On-site waste water treatment systems	Yes
FPM	Freshwater Pearl Mussel sub-basin plan	No
SHE	Shellfish Pollution Reduction Plan	Yes
IPR	IPPC licences requiring review	No
WPR	Water Pollution Act licences requiring review	No
FOR	Forestry guidelines and regulations	Yes
CH1	Chanelisation measures	No
CH2	Chanelisation investigations	No
OG	Overgrazing measures	No
HQW	Protect high quality waters	No

### Measures

Measures are necessary to ensure that we meet the objectives set out in the previous page of this report. Many measures are already provided for in national legislation and must be implemented. Other measures have been recently introduced or are under preparation. A range of additional potential measures are also being considered but require further development. Any agreed additional measures can be introduced through the update of Water Management Unit Action Plans during the implementation process.

You can read more about Basic Measures in 'River Basin Planning Guidance' and in other documents in our RBMP Document Library at www.wfdireland.ie.

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