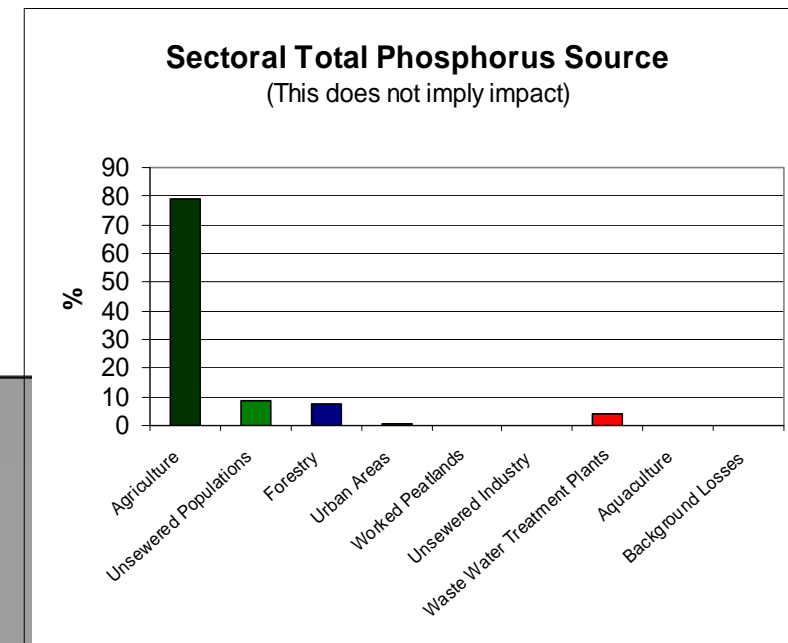


Dinin Water Management Unit Action Plan

Name	Dinin Water Management Unit
Area	300 km ²
River Basin District	South Eastern RBD
Main Counties	Kilkenny
Protected Areas	River Barrow and River Nore SAC 1 drinking water abstraction from Douglas River. 1 drinking water abstraction from Dinan River.



Dinin Water Management Unit



Legend

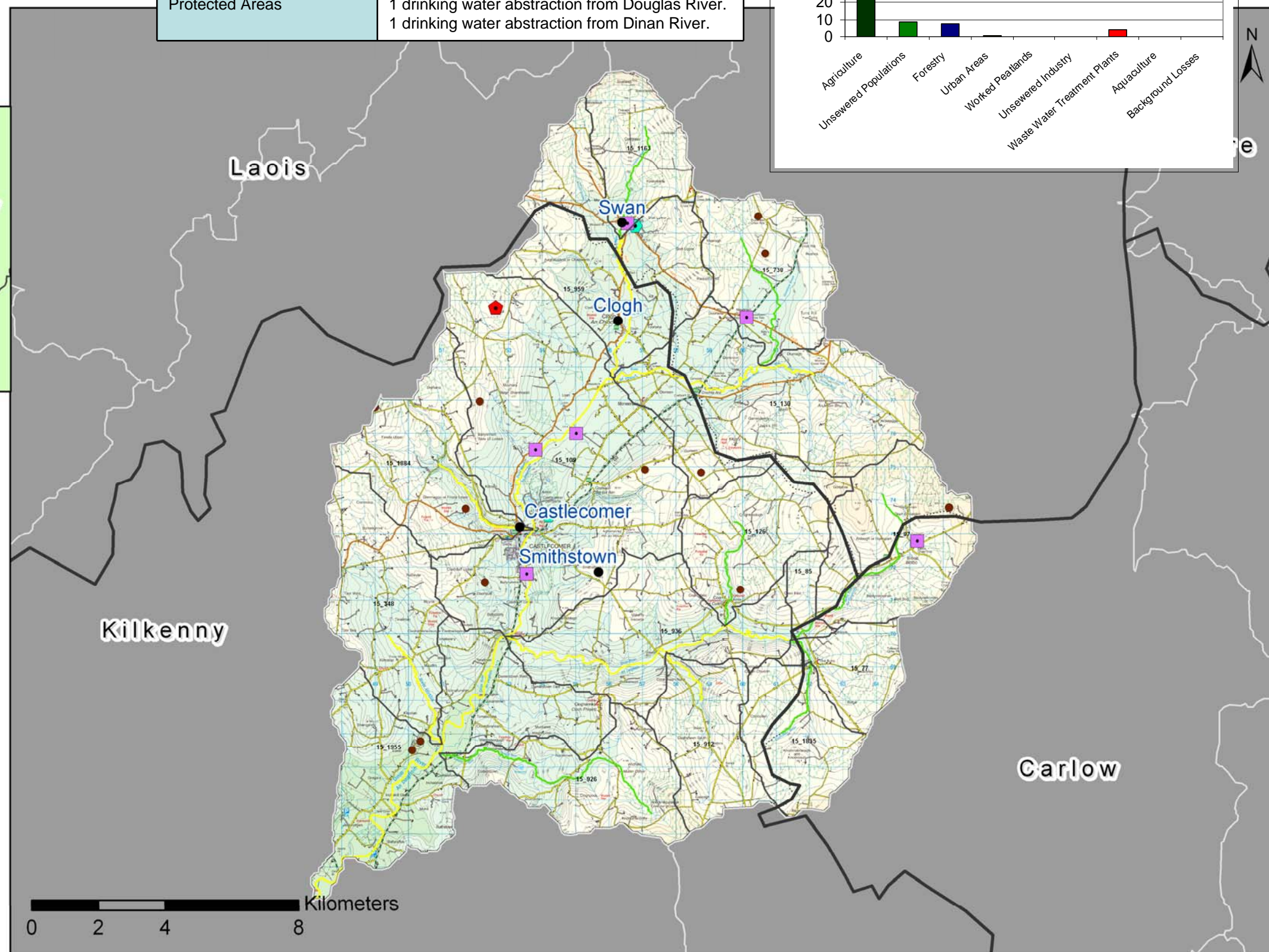
- WMU Boundary
- County Boundary
- Quarries
- Waste Water Treatment Plants
- Local Authority Licensed Discharge
- EPA Licensed Facility (IPPC)

River Status

- High
- Good
- Moderate
- Poor
- Bad

Lake Status

- High
- Good
- Moderate
- Poor
- Bad



Dinin Water Management Unit Action Plan

STATUS/IMPACTS	
Overall status	16 RWB - 8 good, 8 moderate. 0 lakes.
Status elements	Q score dictates most status, except for 2 good WBs which are determined through Phys Chemical status. Phys Chemical passes in all cases. Status for 4 good and 1 moderate sites were extrapolated. Chemical Status passes where monitored (lower reaches of Dinin River).
Possible Impacts - EPA Water Quality 2004	<p>CASTLECOMER STREAM – (SE_15_1884, Status 2009 – Good) – Satisfactory, representing improvement since previous survey in 2005. (Q4)</p> <p>CLOGH – (SE_15_959, Status 2009 – Moderate) – No assessment in 2008. 2005 assessment - Reversion to 1998 status following improvement, since 2001 survey, to satisfactory conditions at Slatt Bridge (0200). Continuing slightly polluted at the other location (0400) which is also known as Cooltha Bridge. (Q4)</p> <p>CLOGHNAGH – (SE_15_348, Status 2009 – Moderate) – Satisfactory. Also known as River Glosia. (Q4)</p> <p>DININ (NORE) – (SE_15_1955, Status 2009 -Moderate) – Satisfactory at both location following improvement since previous survey, (Q4)</p> <p>DININ NORTH – (SE_15_130 and SE_15_109, Status 2009 – Good) – Satisfactory throughout following improvement, from slightly polluted conditions, at two of the locations. (Q4)</p> <p>DININ SOUTH – (SE_15_936 and SE_15_85, Status 2009 – Good) – Satisfactory at both location following improvement at one of the monitoring locations since previous survey. (Q4)</p> <p>MUCKALEE – (SE_15_926, Status 2009 – Good) – Continuing satisfactory at both locations with no change in quality since previous survey. Also known as Douglas River. (Q4)</p>

PRESSURES/RISKS	
Nutrient sources	Most TP is diffuse (96%) mainly from agriculture (79%), unsewered properties (9%) and forestry (7%). 4% of TP comes from WWTP.
Point pressures	<p>6 WWTPs: Castlecomer, Clogh-Moneenroe, Deerpark, Newtown- Doonane, The Swan, Bilboa.</p> <p>2 Section 4s: Mining Company, Quarry.</p> <p>4 IPPCs: 2 Fireclay Manufacturers, 2 Private Companies.</p> <p>2 WTP: Biboa WTP, Clogh/Castlecomer WTP.</p> <p>1 EPA Licensed Waste Facilities</p>
Wastewater Treatment Plants (WWTP) and Industrial Discharges	<p>Castlecomer WWTP – at risk</p> <p>Clogh-Moneenroe WWTP - at risk</p> <p>Newtown-Doonane WWTP – at risk</p> <p>Section 4 - No risks and IPPC - No risks.</p>
Quarries, Mines & Landfills	<p>There are 13 quarries within the WMU.</p> <p>There are no landfills within the WMU.</p> <p>There are 4 mines within the WMU</p> <p>No waterbodies at risk.</p>

PRESSURES/RISKS	
Agriculture	There are 5 waterbodies at risk from agriculture within the WMU : SE_15_109, SE_15_348, SE_15_1884, SE_15_1955 and SE_15_959 and SE_16_3681
On-site systems	There are 3512 septic tanks in this WMU, none of them are posing a risk to water quality due to their density, location and unsuitable hydrogeological conditions.
Forestry	There are no waterbodies within the WMU at risk from Forestry.
Dangerous substances	There are no waterbodies at risk from dangerous substances within the WMU.
Morphology	<p>45 potential Barriers to Migration have been risk assessed by SRFB and CFB in this WMU using field based assessment and GIS analysis (www.wfdireland.ie).</p> <p>Dinin River - CFB/SRFB has identified six high risk barriers on the Dinin tributary. High risk barriers include Castlecomer weir, Doonane Br, Ormonde Br, Killen Br, Mayo Br & Clogh Br. Castlecomer weir is the first high risk barrier on the main channel of the Dinan. There is approximately 2km of known spawning grounds between Castlecomer weir and Massford Bridge, the next barrier upstream. The risk analysis suggests that salmon are not migrating any further upstream on the main Dinin channel than Ormonde Bridge.</p> <p>The Killeen and Mayo bridges situated upstream of Ormonde bridge were assessed as 'no risk' by the field based assessment. It is unlikely that these barriers would prevent further upstream migration of salmon. Castlecomer weir, Doonane Br, Ormonde & Clogh Br. were all assessed as high risk barriers during the SRFB field assessment and remain high risk under the GIS risk analysis.</p> <p>Eight barriers on the Dinin were classified as moderate risk barriers post GIS risk analysis. A barrier on the Douglas tributary and one on the Monavea were assessed as moderate risk during the field based assessment and remained moderate risk post GIS analysis as there was no electro fishing data available upstream.</p> <p>A barrier on the Gloisha was assessed as no risk during the field based analysis as there is only one juvenile salmon year class present upstream it has been reclassified as moderate risk under the rule base analysis. Castlecomer Bridge has been downgraded from a high risk bridge to a moderate risk barrier post GIS analysis as two year classes were captured upstream in 2008. Cloonane Bridge & Massford Bridge were also assessed as moderate risk post GIS analysis as there was only one year class captured upstream in 1990 or 2008.</p> <p>The Metal Bridge and a bridge at Coan were assessed as high risk during the field based analysis. As two year classes were captured upstream of these two weirs in 1990 both bridges have been reclassified as moderate risk barriers. In 2008 the SRFB modified the Metal Bridge to allow greater passage to salmon migration.</p>
Abstractions	There are 2 waterbodies at risk from abstraction within the WMU: SE_15_926 and SE_15_1955. Additional groundwater abstractions as advised by Local Authorities include The Swan Borehole.
Other	There are no HMWB or AWB within the WMU.

Dinin Water Management Unit Action Plan

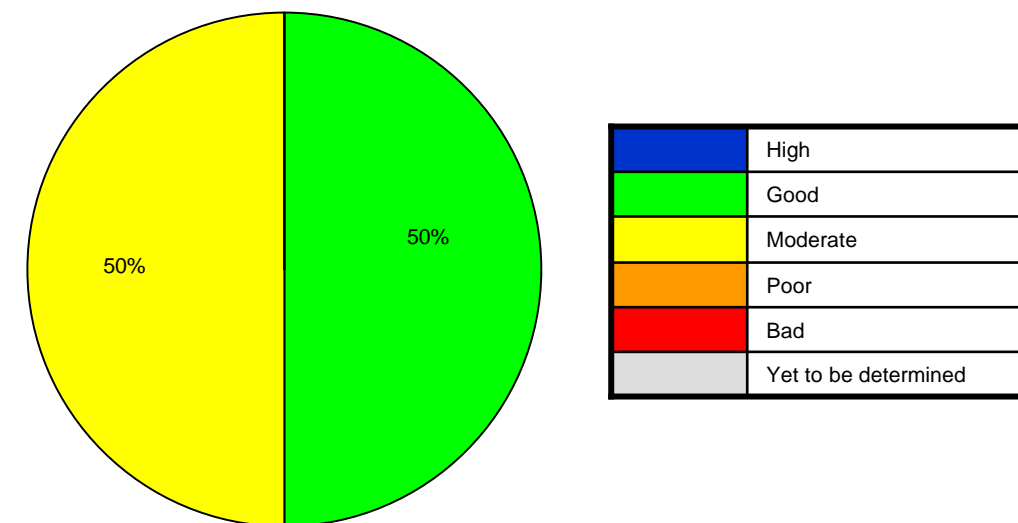
SELECTED ACTION PROGRAMME	
<i>NB All relevant basic measures, general supplementary measures and SEA mitigation measures apply</i>	
Point Sources	See Action Table for WWTP below. INDUSTRY - Examine the terms of all discharge authorisations to determine whether they require review for the purpose of compliance with water body objectives including protected area objectives and environmental quality standards.
Diffuse Sources	AGRICULTURE – Good Agricultural Practice Regulations and Enforcement.
Other	MORPHOLOGY: The 6 high risk barriers (1 weir and 5 bridges); and 8 moderate risk barriers within require further investigation to determine the appropriate type of remediation and its feasibility. High Risk – SE_15_130, SE_15_109, SE_15_959; Moderate Risk –SE_15-936, SE_15_348, SE_15_126, SE_15_926). OTHER: Protection of drinking water, abstraction control and future licensing.

FUTURE DEVELOPMENT0	
Future Pressures and Developments	Throughout the river basin management cycle future pressures and developments will need to be managed to ensure compliance with the objectives of the Water Framework Directive and the Programme of Measures will need to be developed to ensure issues associated with these new pressures are addressed.

OBJECTIVES	
Restore/Protect 2015	11 water bodies
Alternative Objectives	Extended Deadlines – 5 water bodies with 2021 deadline New Modifications or Development – none requiring alternative objectives at present. HMWB/AWB - none

Point Source Discharge	County	Priority	Measure (Capital Works)
Castlecomer Sewerage Scheme WWTP	Kilkenny	1	Increase capacity of treatment plant.
Castlecomer Sewerage Scheme WWTP	Kilkenny	1	Provide tertiary treatment or relocate outfall.
Castlecomer Sewerage Scheme WWTP	Kilkenny	1	Provide nutrient removal or relocate outfall.
Clogh-Moneenroe Sewerage Scheme WWTP	Kilkenny	1	Increase capacity of treatment plant.
Point Source Discharge	County	Priority	Measure (Investigation before Capital Works)
Newtown-Doonane	Laois	3	Investigate the need for tertiary treatment or for the relocation of the outfall.
Point Source Discharge	County	Priority	Measure
Castlecomer Sewerage Scheme WWTP	Kilkenny	1	Implement an appropriate performance management system
Clogh-Moneenroe Sewerage Scheme WWTP	Kilkenny	1	Implement an appropriate performance management system
The Swan	Laois	1	Implement an appropriate performance management system
Point Source Discharge	County	Priority	Measure
Castlecomer Sewerage Scheme WWTP	Kilkenny	2	Investigation of CSO's
Point Source Discharge	County	Priority	Measure
Clogh-Moneenroe Sewerage Scheme WWTP	Kilkenny	2	Ensure capacity of treatment plant is not exceeded

River Status



Dinin Water Management Unit Action Plan

River Data

This table outlines water body information including status and a breakdown of its elements, protected areas, objectives and timescales.

IE_SE_DInin																	
Member State Code	Monitored Y (Extrapolated N)	Donor Waterbody	Biological Elements				Supporting Elements				Chemical Status	Protected Areas				Objective	Date objective to be achieved
			s (O) Macroinvertebrate	FreshWater Pearl Mussel	Fish	Phytobenthos (Diatoms)	Morphology	Specific Pollutants	Physio-chemical	Ecological Status		Special Area of Conservation	Special Protection Area	Nutrient Sensitive Waters	Drinking Water		
SE_15_109	Y		M							G	M		Y			GES	2021
SE_15_1163	Y									G	G					GES	2009
SE_15_126	N	SE_15_85								G			Y			GES	2009
SE_15_130	Y		M							G	M		Y			GES	2021
SE_15_1835	N	SE_15_85								G						GES	2009
SE_15_1884	Y		M							G	M					GES	2021
SE_15_1955	Y		M			H		H		G	M	G	Y			GES	2021
SE_15_348	Y		M								M		Y			GES	2015
SE_15_738	Y									G	G					GES	2009
SE_15_77	N	SE_15_85								G			Y			GES	2009
SE_15_85	Y		G							H	G					GES	2009
SE_15_87	N	SE_15_85								G						GES	2009
SE_15_912	N	SE_15_936									M					GES	2015
SE_15_926	Y		G							G	G		Y		Y	GES	2009
SE_15_936	Y		M							G	M		Y			GES	2015
SE_15_959	Y		M							G	M		Y			GES	2021