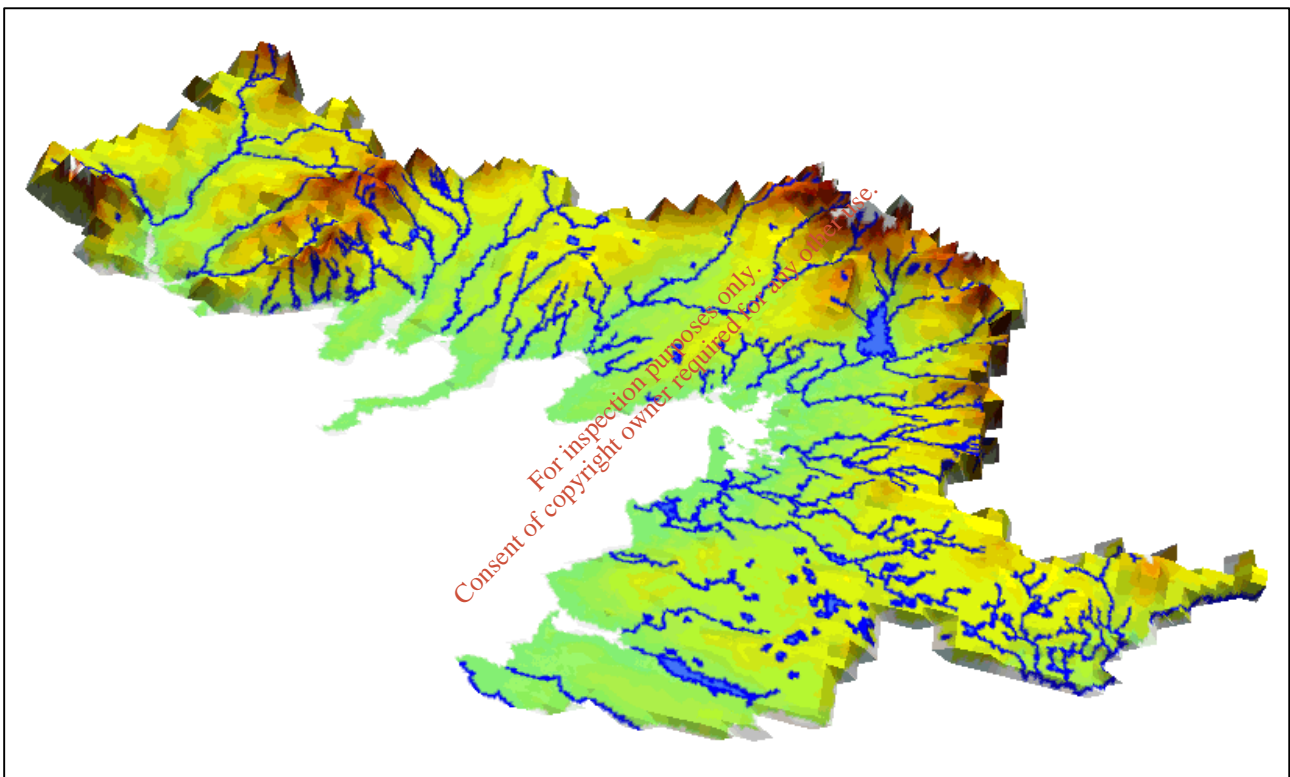


Donegal Bay Water Quality Management Plan

Maps
Final Draft



Mr. J Holohan, B.E., C.Eng, MIEI, MIAT.
Director
Water, Environment, and Emergency Services
Donegal County Council
April 2002

Donegal Bay Water Quality Management Plan

G.I.S. Maps

For inspection purposes only.
Consent of copyright owner required for any other use.

Donegal Bay Water Quality Management Plan G.I.S. Maps

- Map 1. The District Electoral Divisions (DED's) which comprise the Donegal Bay catchment.
- Map 2. The roads network serving the Donegal Bay catchment.
- Map 3. The major rivers in the Donegal Bay catchment.
- Map 4. The topography of the Donegal Bay catchment.
- Map 5. The aspect of the Donegal Bay catchment.
- Map 6. The slope of the Donegal Bay catchment.
- Map 7. The geology of the Donegal Bay catchment.
- Map 8. The hydrometric stations within the Donegal Bay catchment.
- Map 9. The rain gauges within the Donegal Bay catchment.
- Map 10. The land cover of the Donegal Bay catchment.
- Map 11. The general soils of the Donegal Bay catchment.
- Map 12. The landscape categories of the Donegal Bay catchment.
- Map 13. The population distributions within the Donegal Bay catchment.
- Map 14. The distribution of commerce and industry within the Donegal Bay catchment.
- Map 15. The water supply catchments within the Donegal Bay catchment.
- Map 16. The locations of water boreholes, abstractions, loughs and impoundments within the Donegal Bay catchment.
- Maps 16A-16W. Donegal Bay Freshwater Fishery Maps.
- Map 17. The aquaculture operations within the Donegal Bay catchment.
- Map 18. The NHA's within the Donegal Bay catchment.
- Map 19. The SAC's and SPA's within the Donegal Bay catchment.
- Map 20. The Biomar sites within the Donegal Bay catchment.
- Map 21. The locations of the historical monuments within the Donegal Bay catchment.
- Map 22. The locations of the key waste water treatment plants within the Donegal Bay catchment.
- Map 23. The locations of the recycling centres within the Donegal Bay catchment.
- Map 24. The locations of the landfills within the Donegal Bay catchment.
- Map 25. The locations of the key quarries within the Donegal Bay catchment.
- Maps 26-30. Varying farm sizes per DED within the Donegal Bay catchment.
- Map 31. Total farms per DED within the Donegal Bay catchment.
- Map 32. Areas per DED farmed within the Donegal Bay catchment.

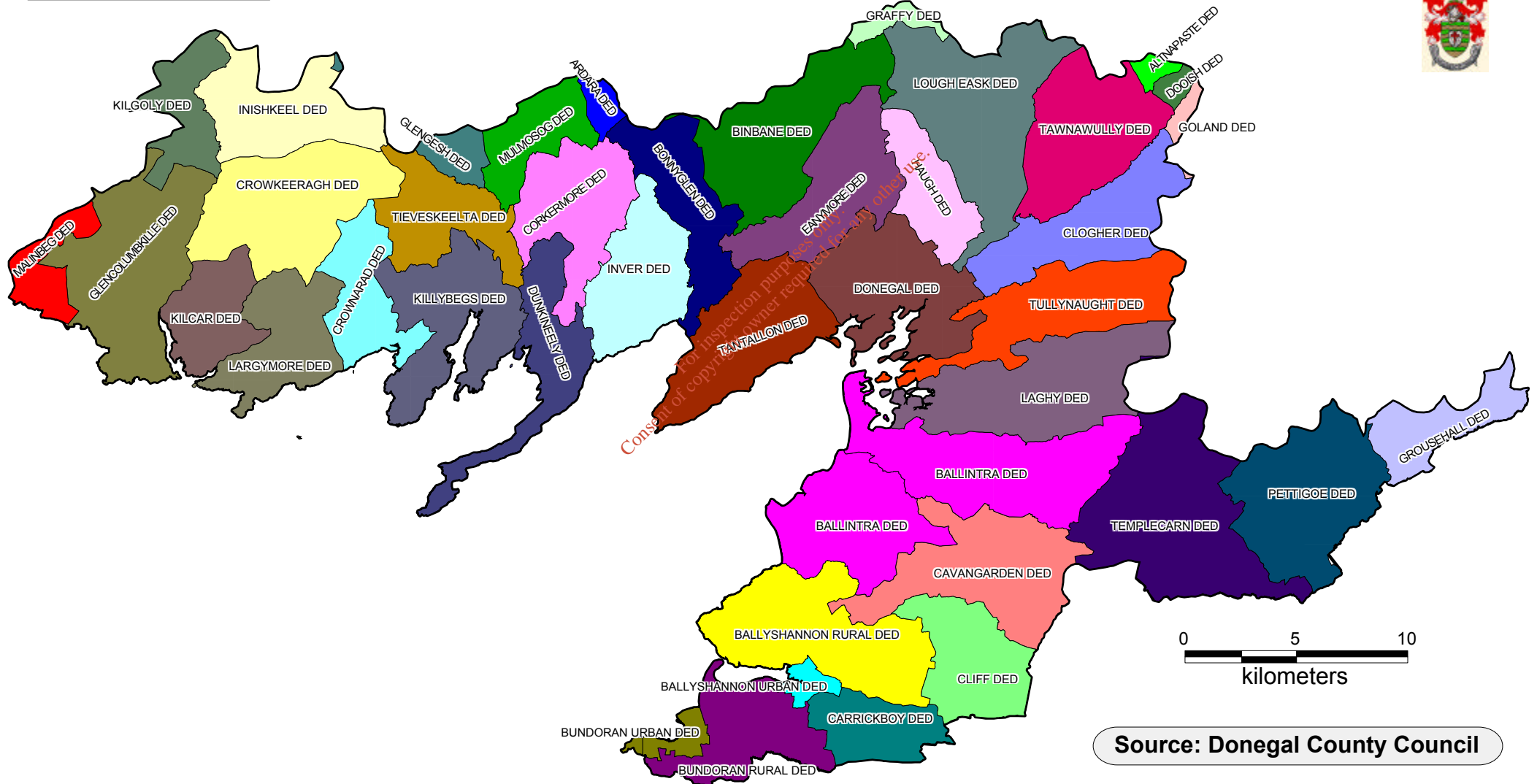
- Map 33. Total sheep per DED within the Donegal Bay catchment.
- Map 34. Other sheep per DED within the Donegal Bay catchment.
- Map 35. Total cattle per DED within the Donegal Bay catchment.
- Map 36. Total ewes per DED within the Donegal Bay catchment.
- Map 37. Total rams per DED within the Donegal Bay catchment.
- Map 38. Total bulls per DED within the Donegal Bay catchment.
- Map 39. Total cows per DED within the Donegal Bay catchment.
- Map 40. Total heifers per DED within the Donegal Bay catchment.
- Map 41. Total cattle 2 years+ per DED within the Donegal Bay catchment.
- Map 42. Total cattle 1-2 years per DED within the Donegal Bay catchment.
- Map 43. Total cattle <1 year per DED within the Donegal Bay catchment.
- Map 44. The Corabber sub catchment agricultural survey area.
- Map 45. The Clogher sub catchment agricultural survey area.
- Map 46. Phosphorous from organic manure within the Donegal Bay catchment.
- Map 47. Phosphorous from artificial fertilisers within the Donegal Bay catchment.
- Map 48. Phosphorous from both agricultural and artificial fertilisers within the Donegal Bay catchment.
- Maps 49-51. Mean phosphorous levels in soils within the Donegal Bay catchment.
- Map 52. Levels of lime required in soils, 1989-1995, within the Donegal Bay catchment.
- Map 53. Potassium required in soils, 1989-1995, within the Donegal Bay catchment.
- Map 54. The various forestry types within the Donegal Bay catchment.
- Map 55. The various forestry types within the Donegal Bay catchment, relative to the various fresh water systems.
- Map 56. The Blue Flag beaches within the Donegal Bay catchment.
- Map 57. The positions of the hydroelectric installations within the Donegal Bay catchment.
- Map 58. The locations of the river sample points within the Donegal Bay catchment.
- Map 59. The County Council's Measures Report (1999) river target Q values set (where available) within the Donegal Bay catchment.
- Map 60. The river orthophosphate levels within the Donegal Bay catchment corresponding to Q values.
- Map 61. The marine sites surveyed within the Donegal Bay catchment.

- Map 62. The location of the branded, trout and abstraction lakes within the Donegal Bay catchment.

For inspection purposes only.
Consent of copyright owner required for any other use.

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

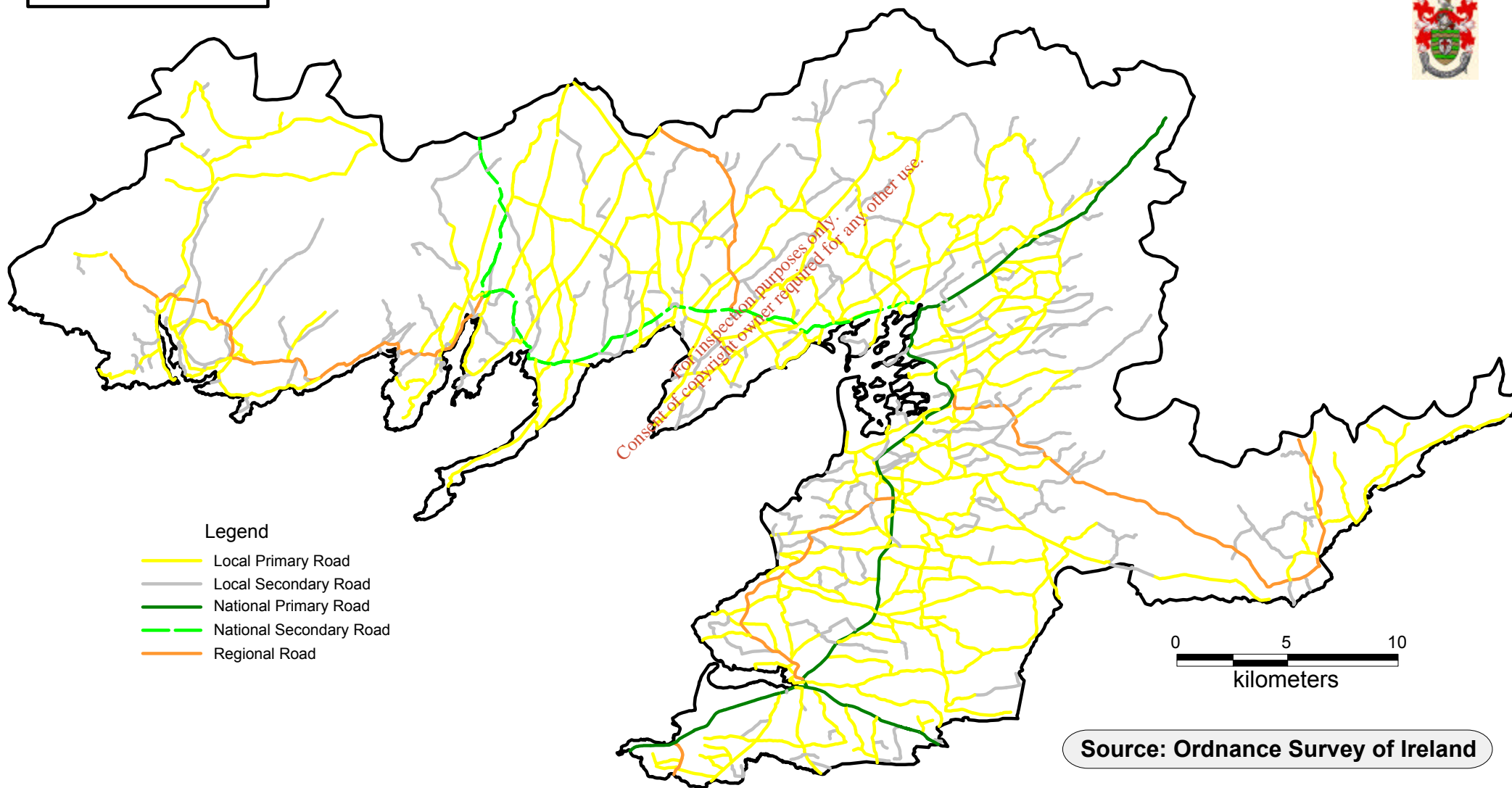
**Map 1
The District Electoral Divisions (DED's)
which comprise the Donegal Bay Catchment**



Source: Donegal County Council

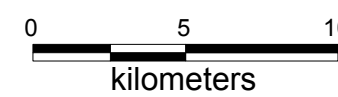
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 2
The Roads Network
serving the Donegal Bay Catchment**



Legend

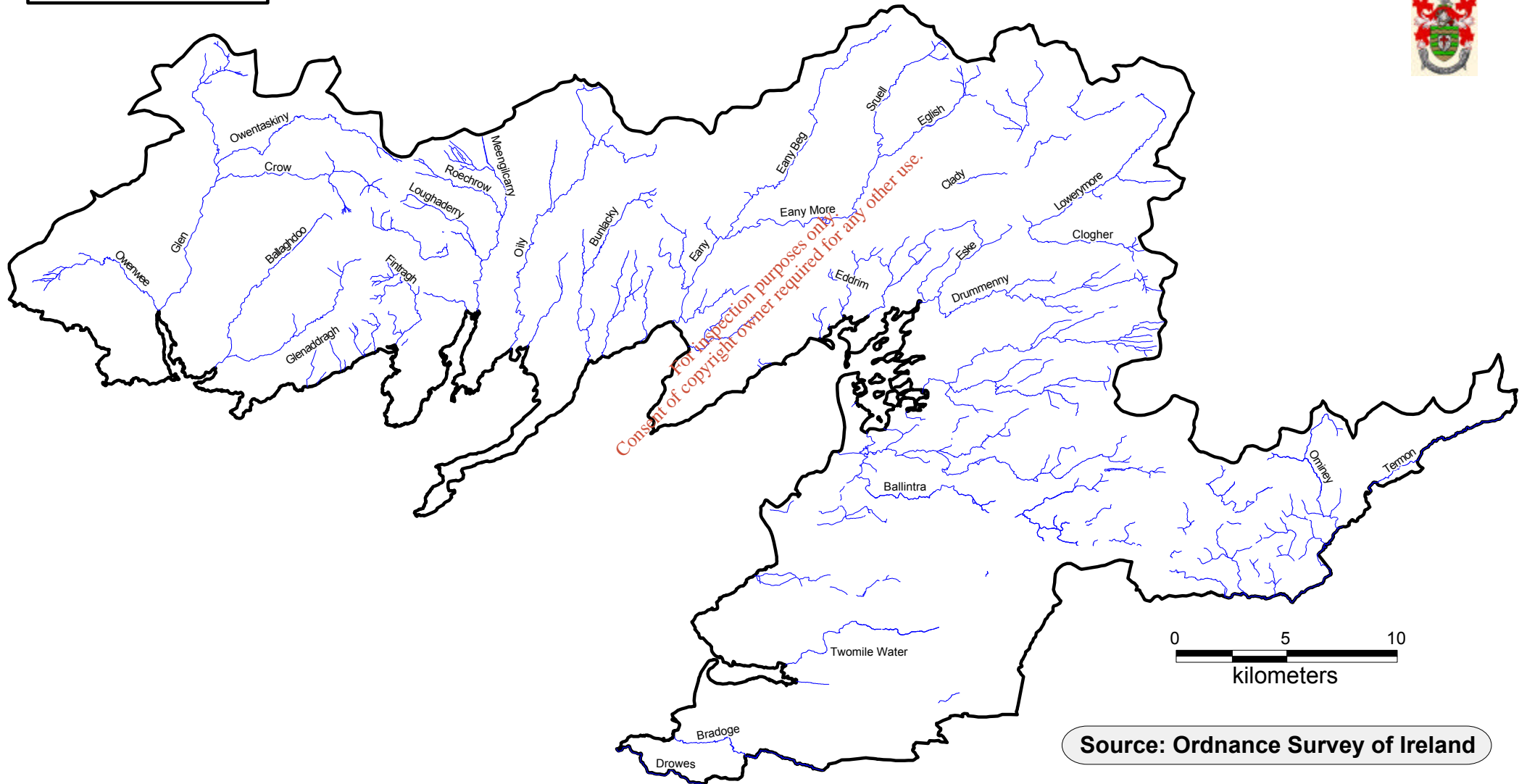
- Local Primary Road
- Local Secondary Road
- National Primary Road
- National Secondary Road
- Regional Road



Source: Ordnance Survey of Ireland

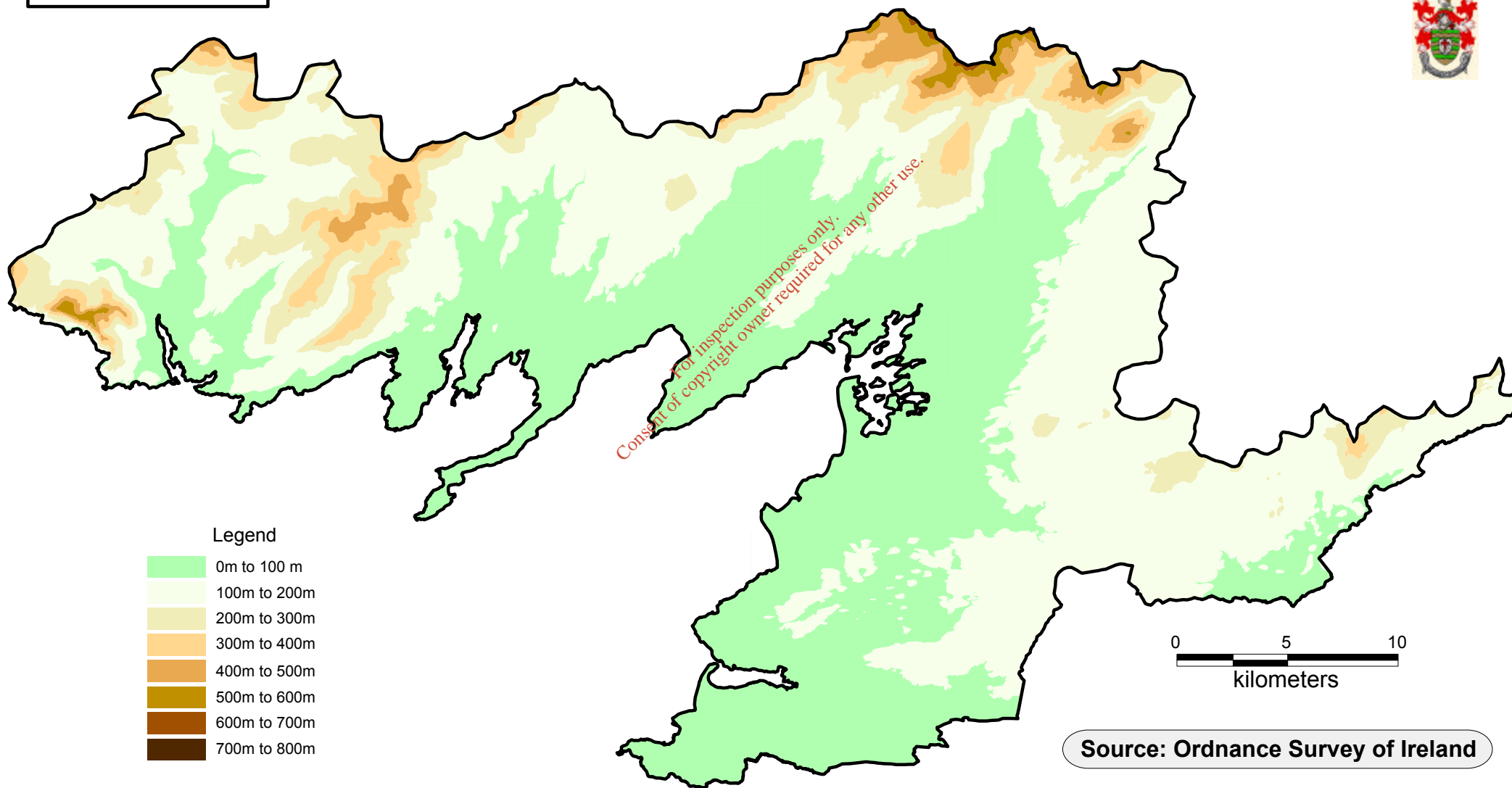
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 3
The Major Rivers
in the Donegal Bay Catchment**



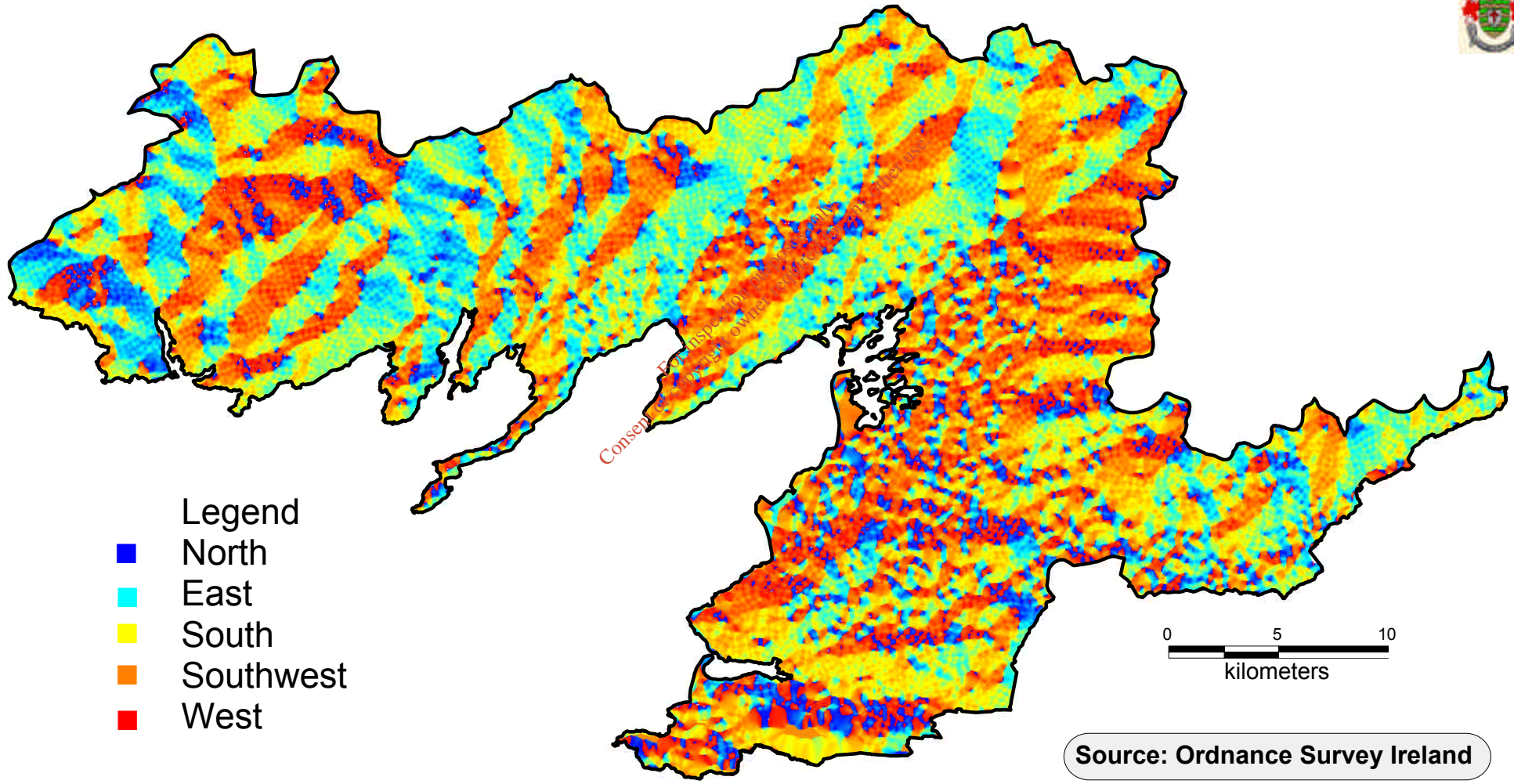
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 4
The Topography
of the Donegal Bay Catchment**



**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 5
The Aspect
of the Donegal Bay Catchment**

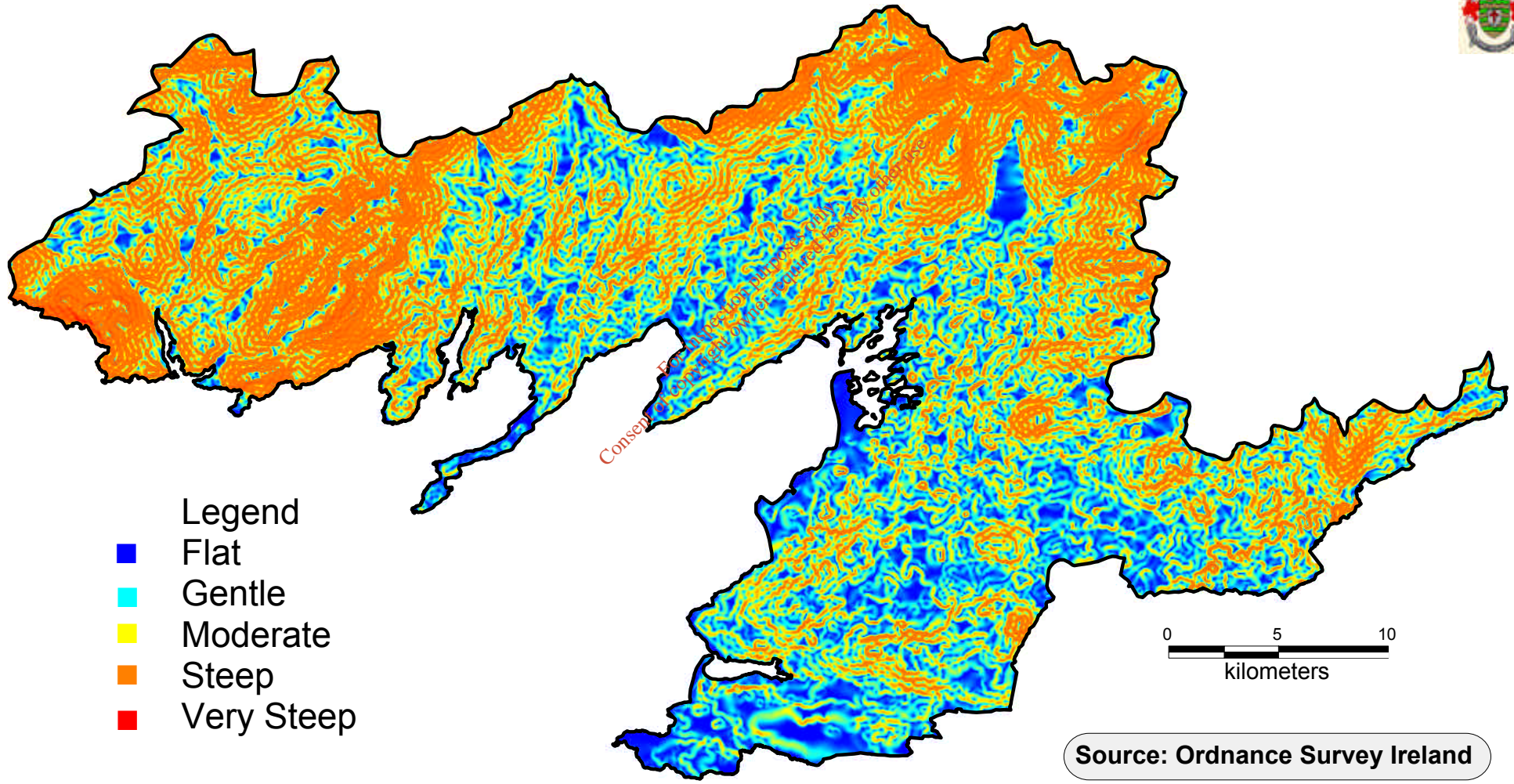


- Legend
- North
 - East
 - South
 - Southwest
 - West

Source: Ordnance Survey Ireland

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 6
The Slope
of the Donegal Bay Catchment**



- Legend
- Flat
 - Gentle
 - Moderate
 - Steep
 - Very Steep

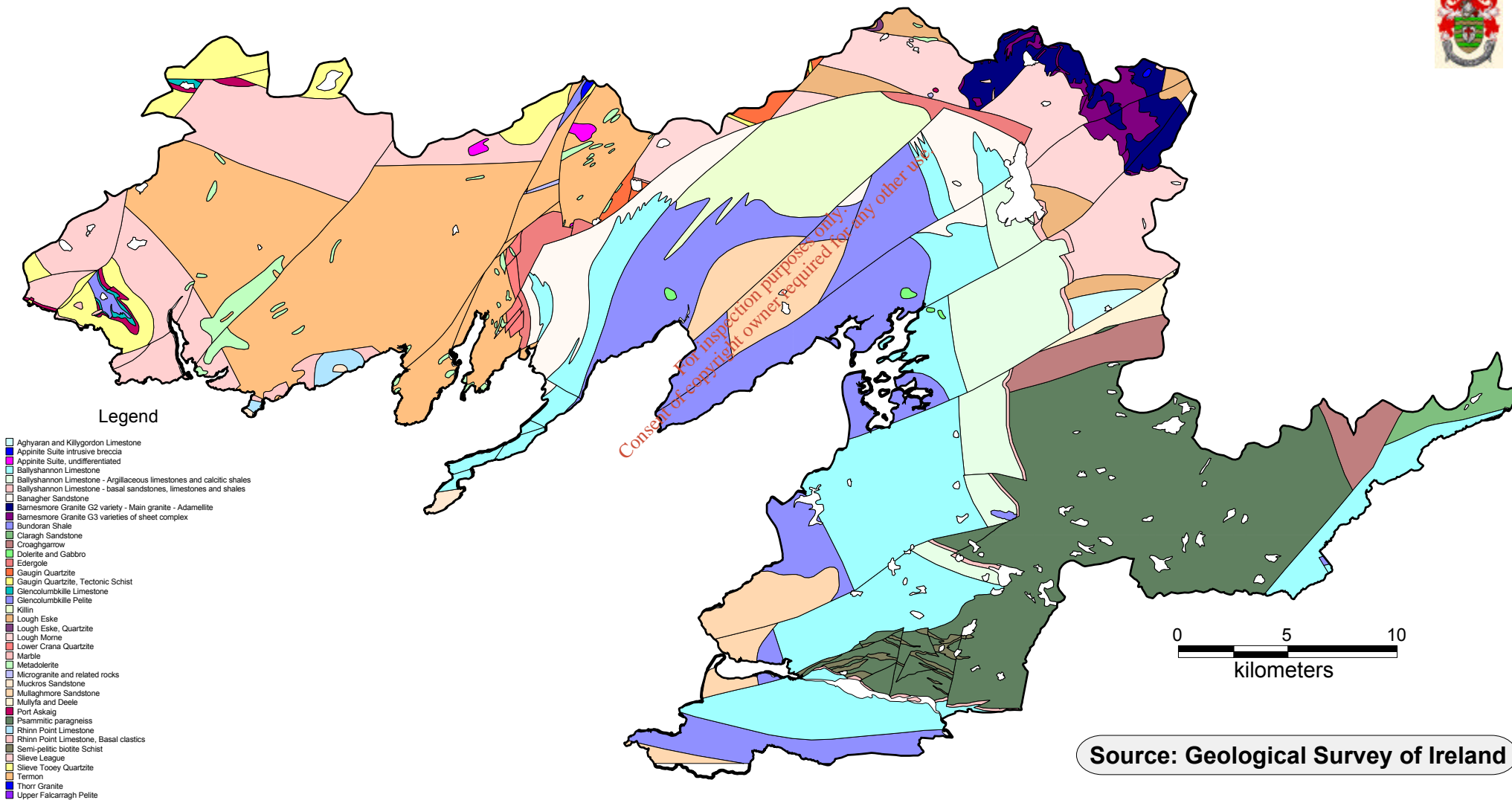
Source: Ordnance Survey Ireland

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 7
The Geology
of the Donegal Bay Catchment**



*For inspection purposes only.
Consent of copyright owners required for any other use.*



Legend

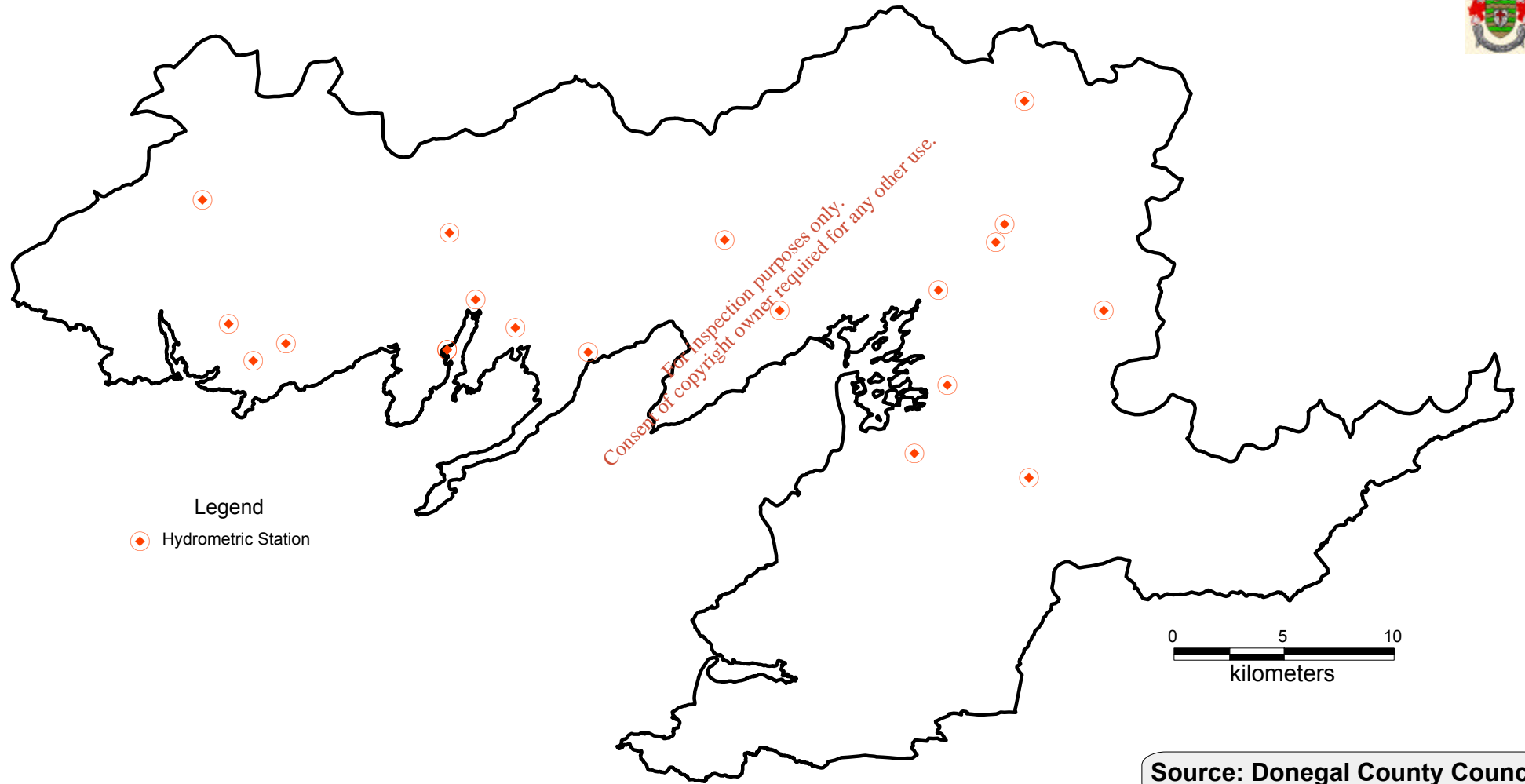
- Aghyaran and Killygordon Limestone
- Appinitic Suite intrusive breccia
- Appinitic Suite, undifferentiated
- Ballyshannon Limestone
- Ballyshannon Limestone - Argillaceous limestones and calcitic shales
- Ballyshannon Limestone - basal sandstones, limestones and shales
- Banagher Sandstone
- Barnesmore Granite G2 variety - Main granite - Adamellite
- Barnesmore Granite G3 varieties of sheet complex
- Burdoran Shale
- Claragh Sandstone
- Croaghgartow
- Dolerite and Gabbro
- Edergole
- Gaugin Quartzite
- Gaugin Quartzite, Tectonic Schist
- Glencolumbkille Limestone
- Glencolumbkille Pelite
- Killin
- Lough Eske
- Lough Eske, Quartzite
- Lough Morne
- Lower Crana Quartzite
- Marble
- Metadolomite
- Microgranite and related rocks
- Muskroe Sandstone
- Mullaghmore Sandstone
- Mullia and Deele
- Port Askaig
- Psammic paragneiss
- Rhinn Point Limestone
- Rhinn Point Limestone, Basal clastics
- Semi-pelitic biotite Schist
- Slieve League
- Slieve Tooney Quartzite
- Termon
- Thorr Granite
- Upper Falcarragh Pelite



Source: Geological Survey of Ireland

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

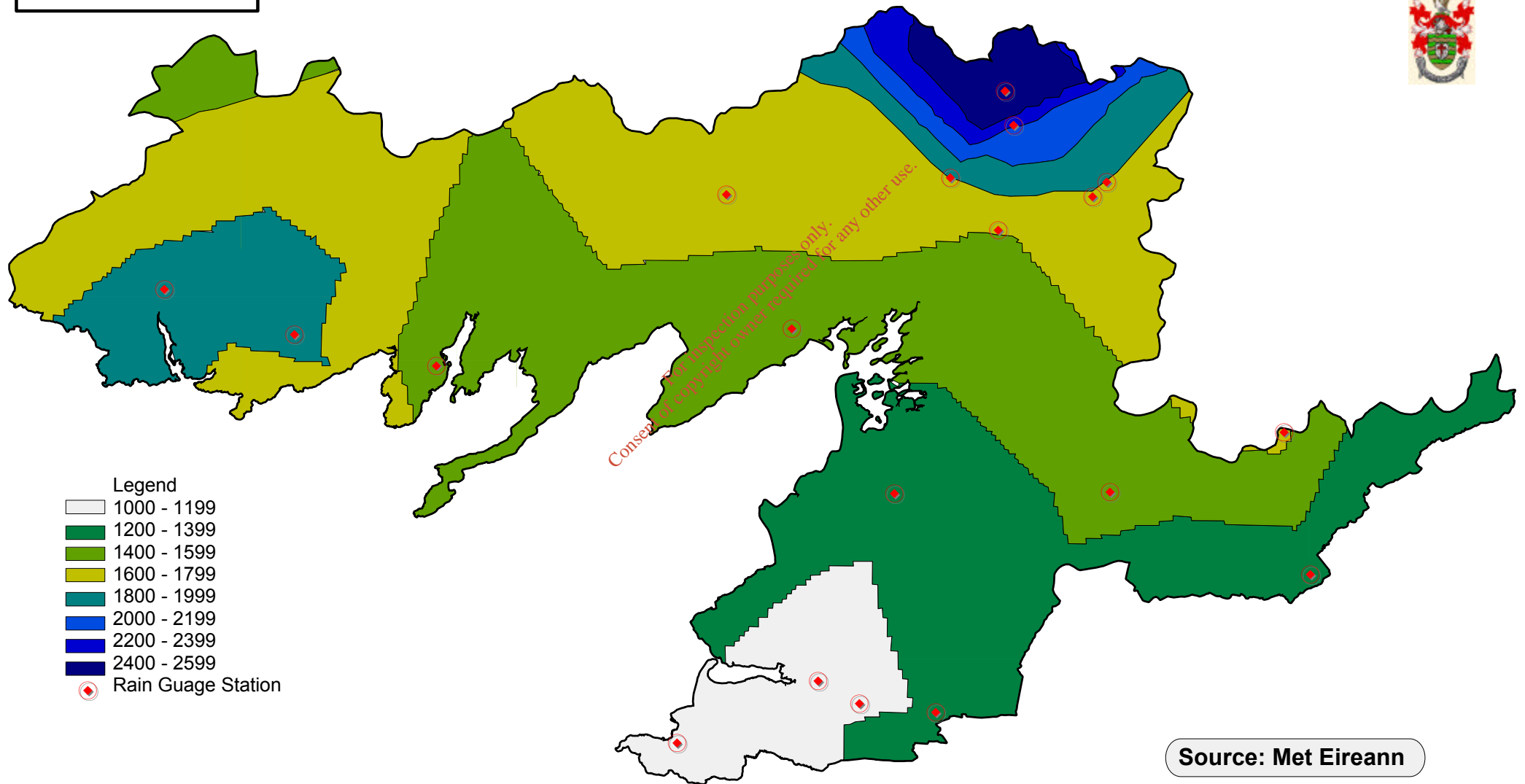
**Map 8
The Hydrometric Stations
within the Donegal Bay Catchment**



Source: Donegal County Council

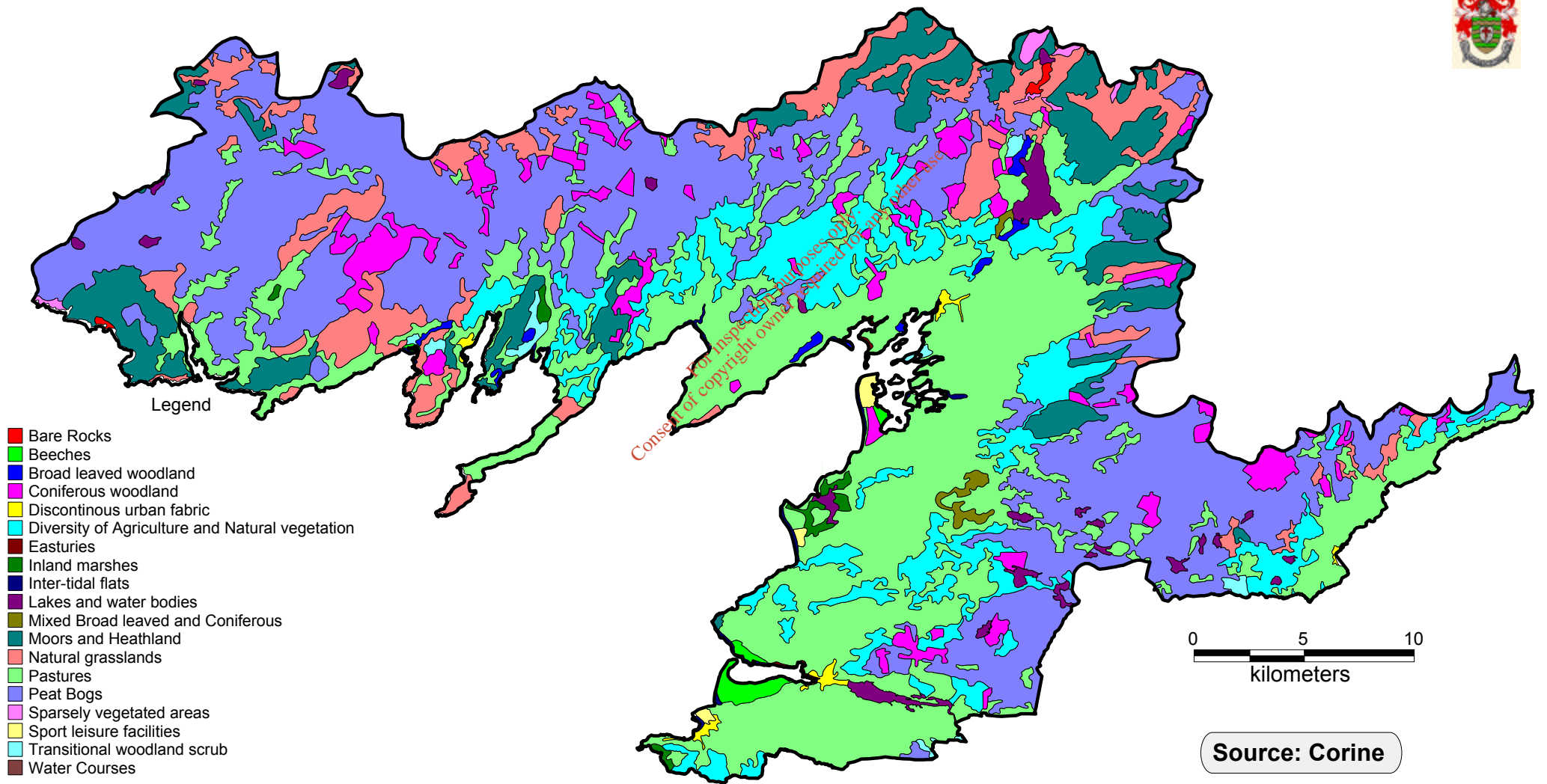
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 9
The Rain Guages
within the Donegal Bay Catchment**



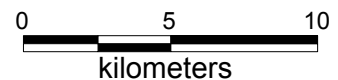
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 10
The Land Cover
of the Donegal Bay Catchment**



Legend

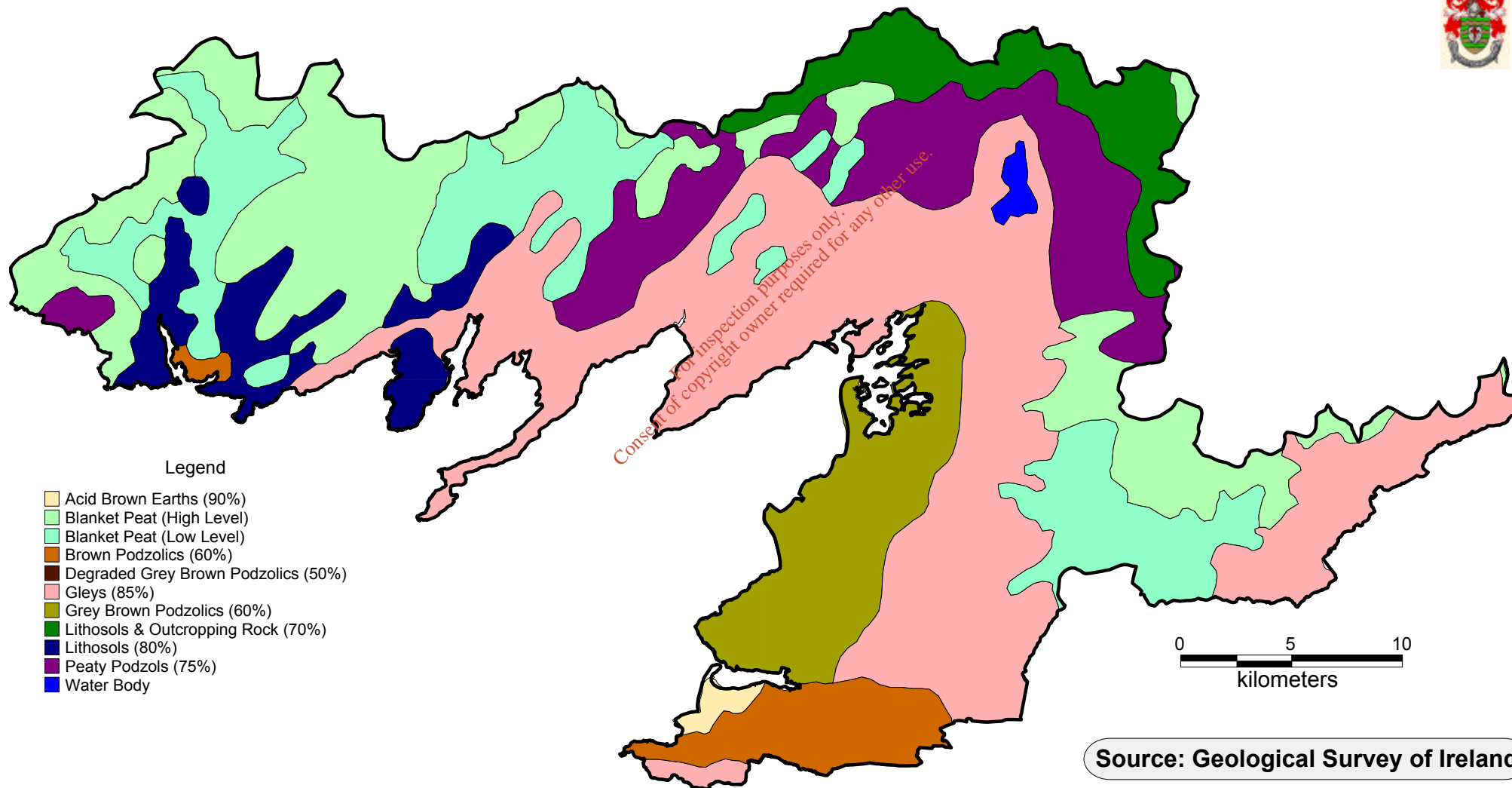
- Bare Rocks
- Beeches
- Broad leaved woodland
- Coniferous woodland
- Discontinuous urban fabric
- Diversity of Agriculture and Natural vegetation
- Easturies
- Inland marshes
- Inter-tidal flats
- Lakes and water bodies
- Mixed Broad leaved and Coniferous
- Moors and Heathland
- Natural grasslands
- Pastures
- Peat Bogs
- Sparsely vegetated areas
- Sport leisure facilities
- Transitional woodland scrub
- Water Courses



Source: Corine

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

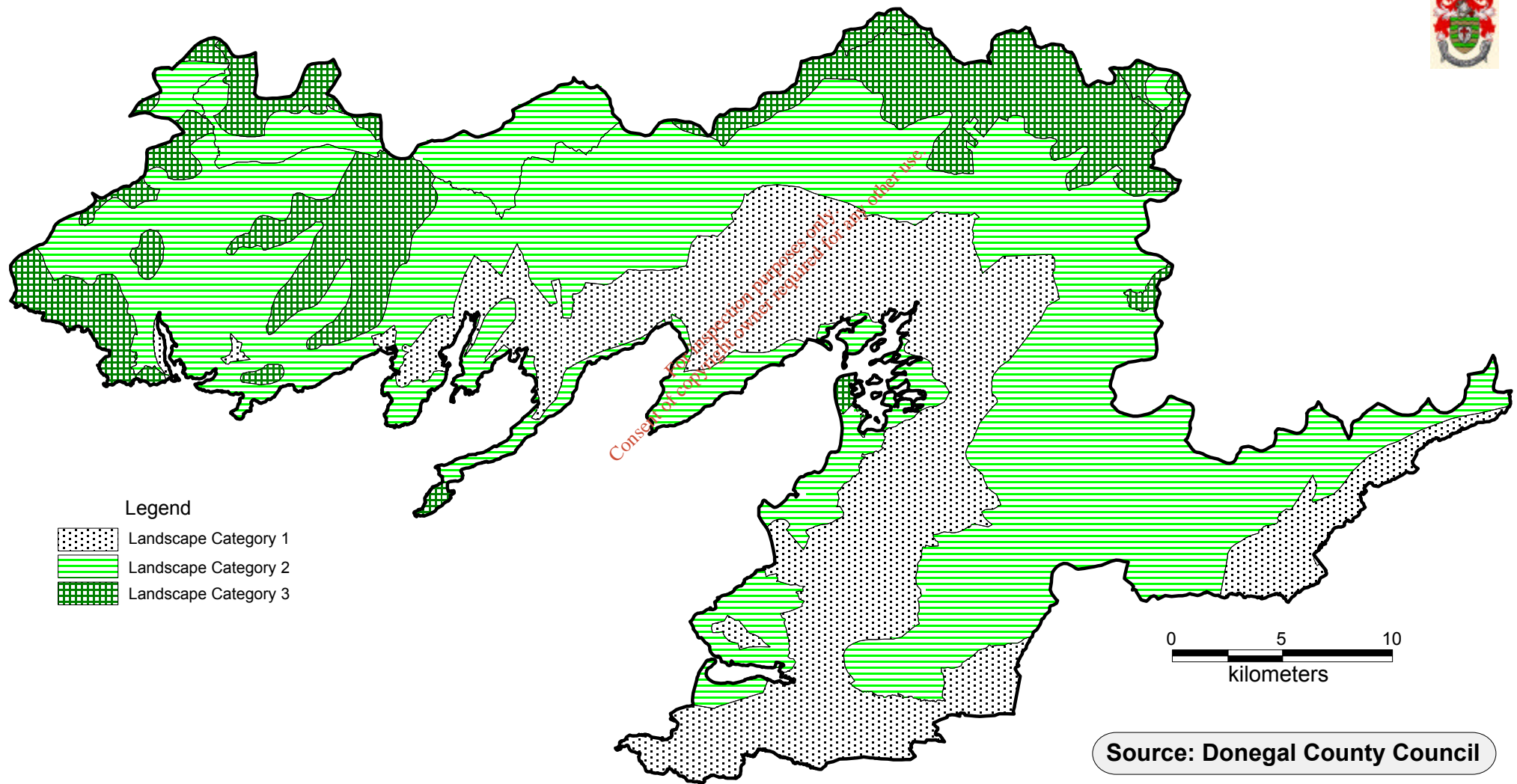
**Map 11
The General Soils
of the Donegal Bay Catchment**






Source: Geological Survey of Ireland

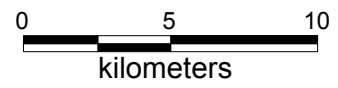
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 12
The Landscape Categories
of the Donegal Bay Catchment**



Legend

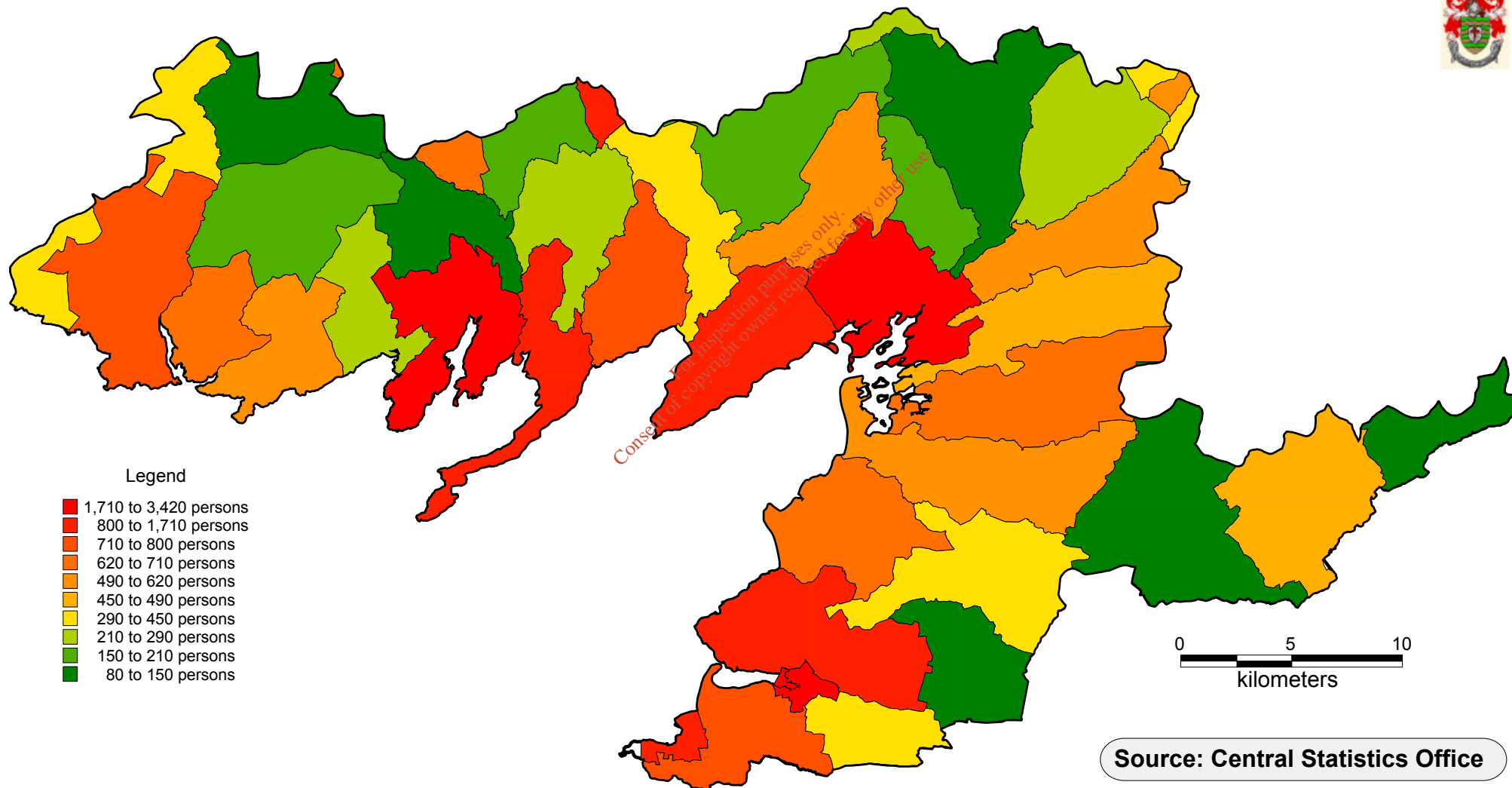
-  Landscape Category 1
-  Landscape Category 2
-  Landscape Category 3



Source: Donegal County Council

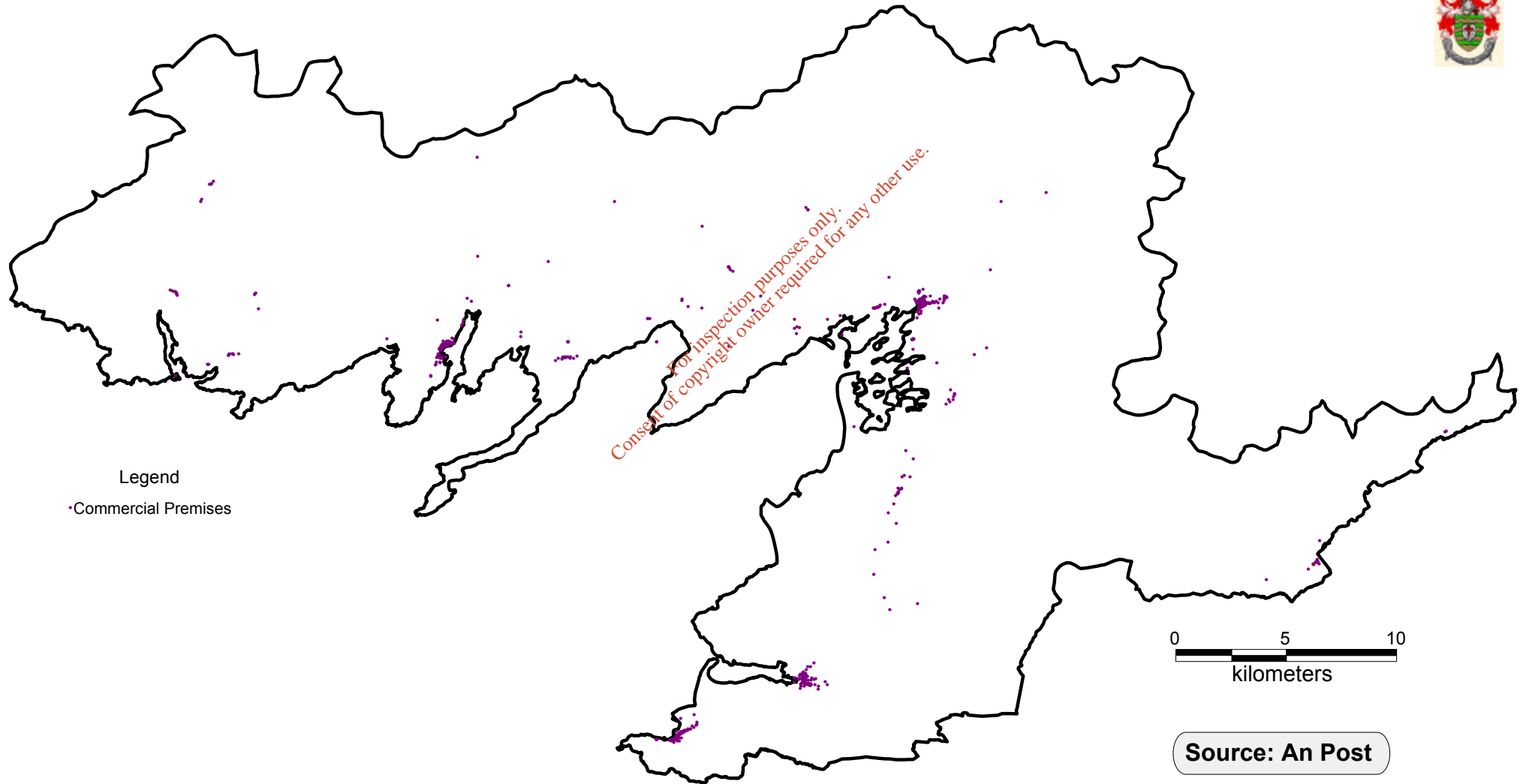
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 13
The Population Distributions
within the Donegal Bay Catchment**



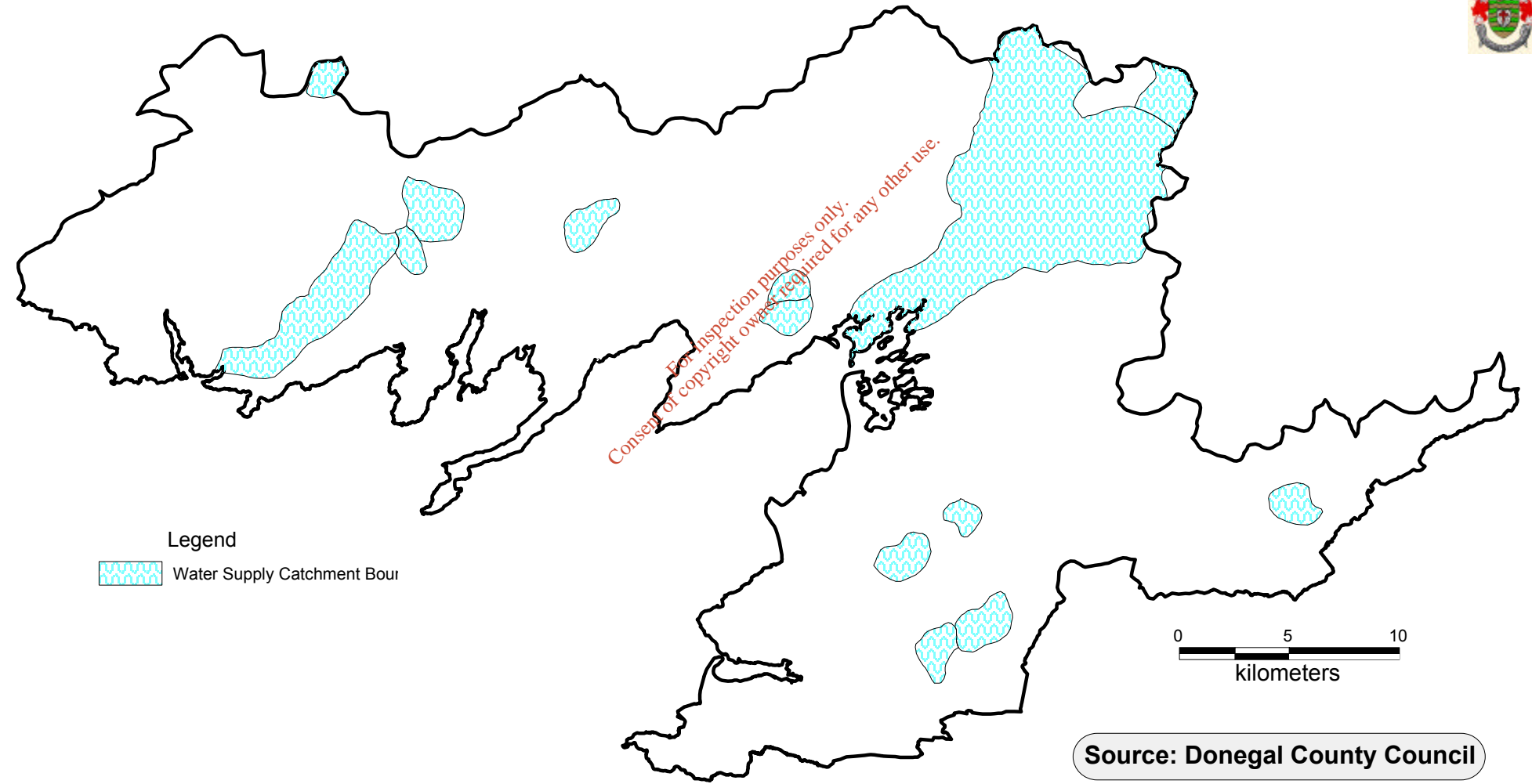
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**


**Map 14
The Distribution of Commerce & Industry
within the Donegal Bay Catchment**



**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 15
The Water Supply Catchments
within the Donegal Bay Catchment**

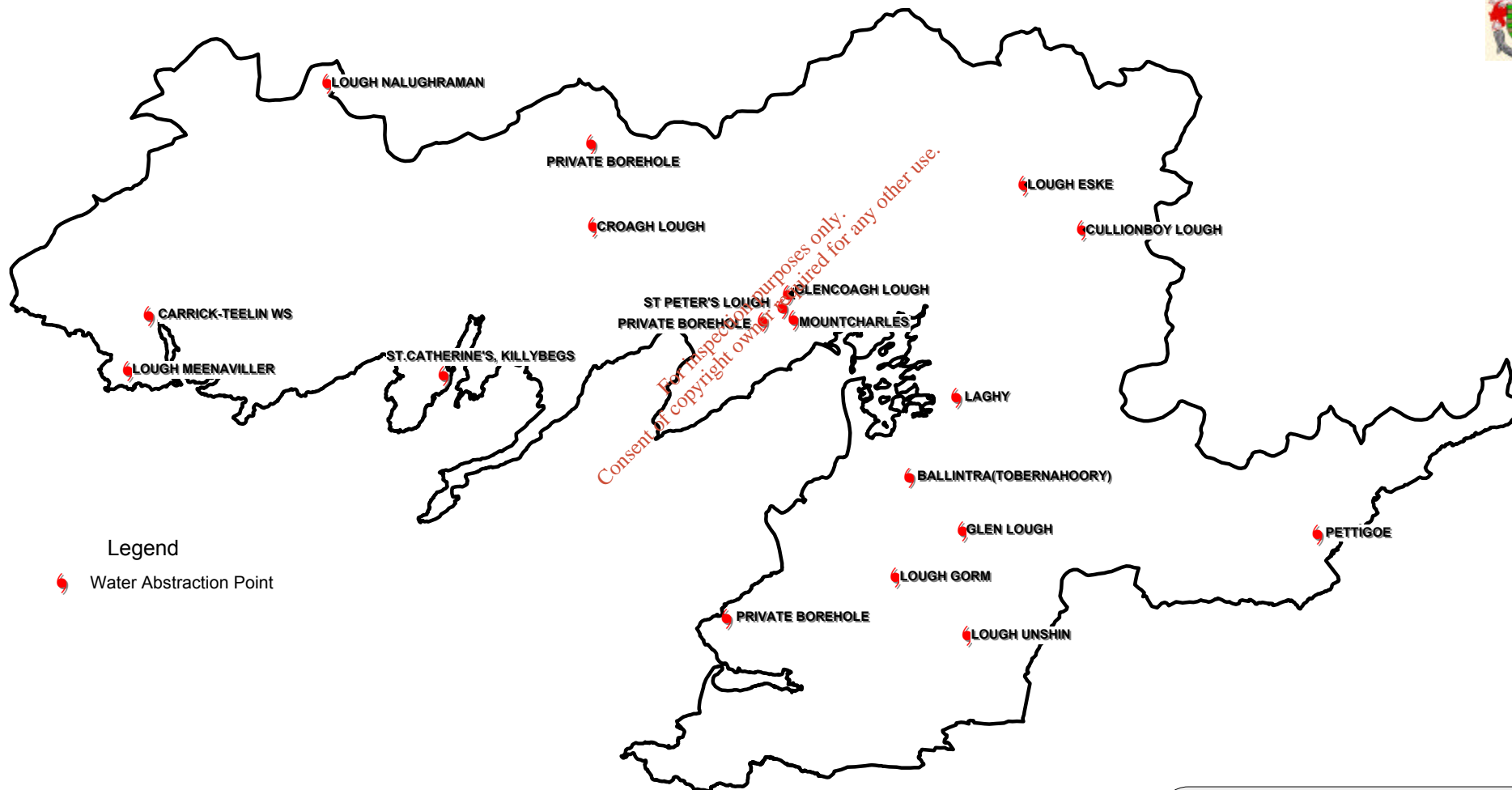


Legend
 Water Supply Catchment Bour

Source: Donegal County Council

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

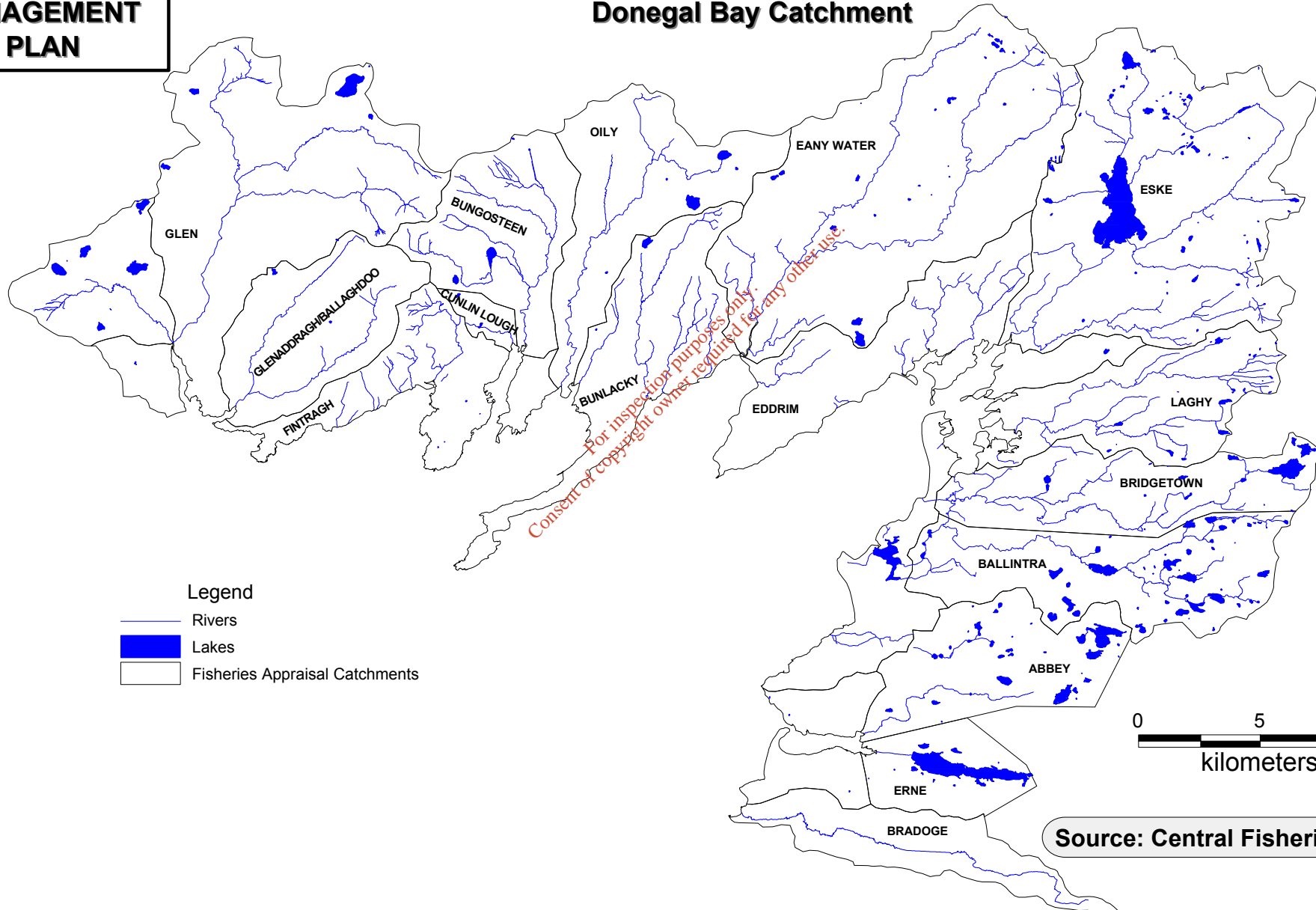
**Map 16
The Location of Water Boreholes,
Abstractions, Loughs and Impoundments
within the Donegal Bay Catchment**



Source: Donegal County Council

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16A
Fisheries Appraisal Catchments within the
Donegal Bay Catchment**

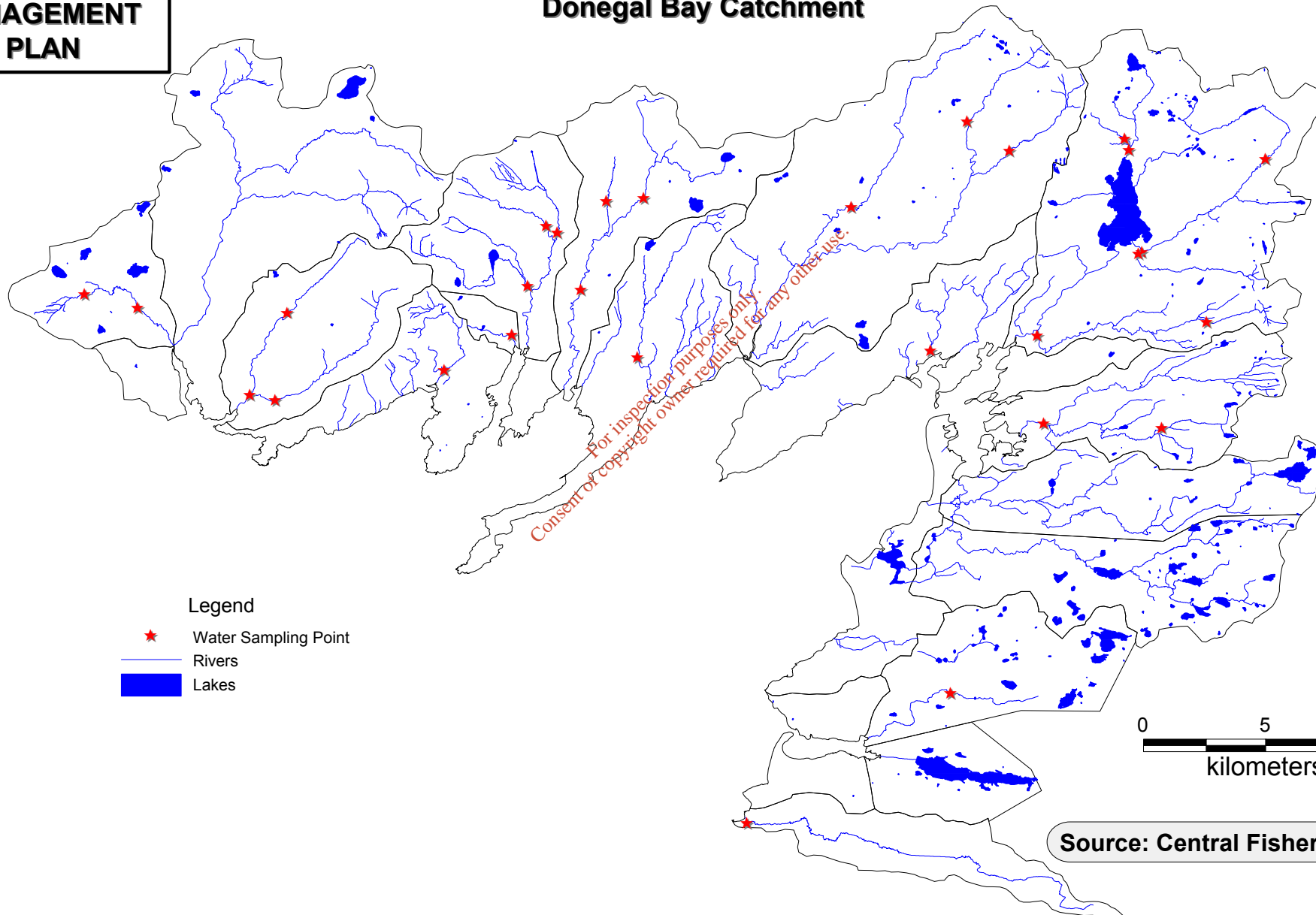


- Legend**
- Rivers
 - Lakes
 - Fisheries Appraisal Catchments

Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16B
Fisheries Water Sampling Points within the
Donegal Bay Catchment**



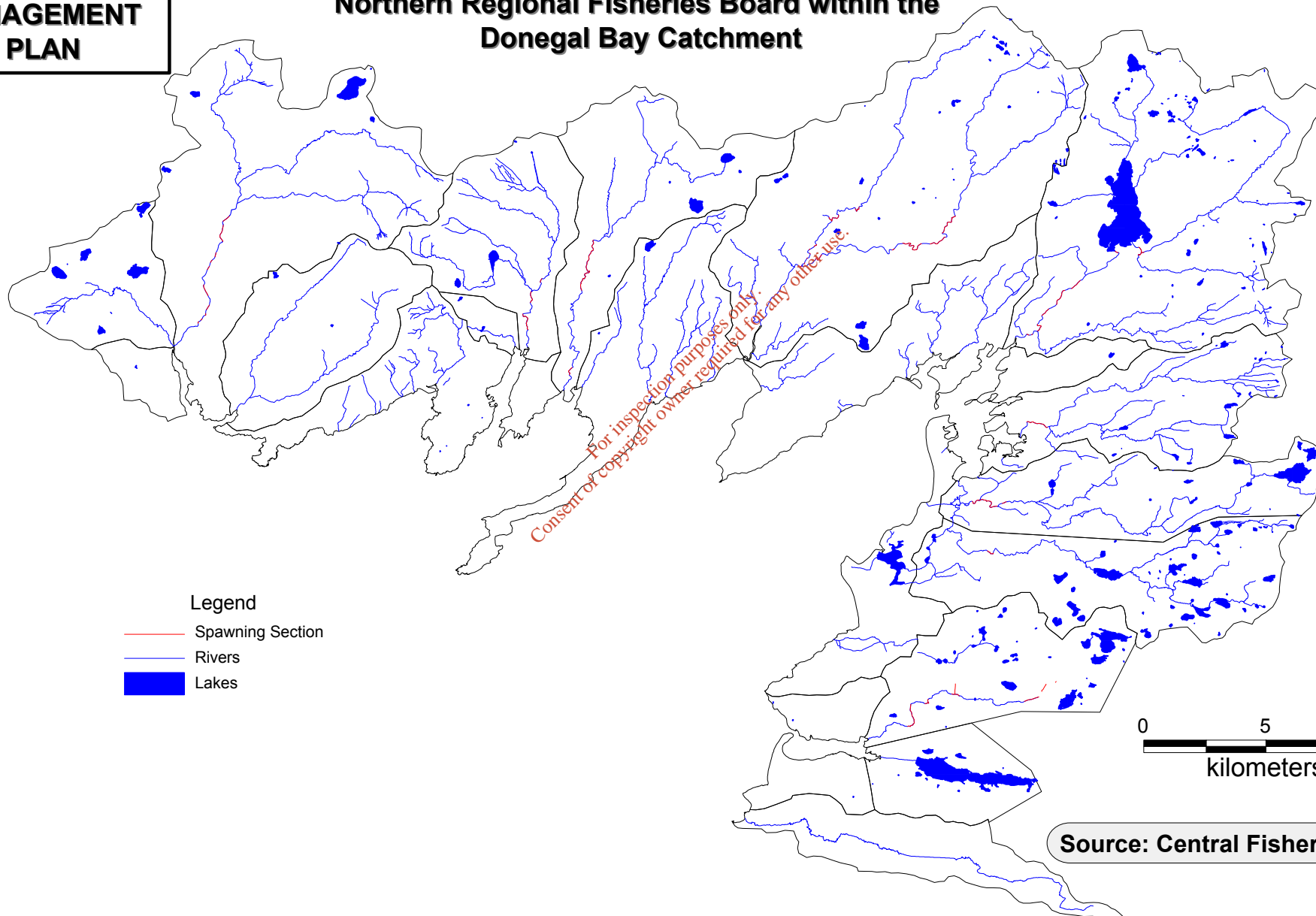
- Legend**
- ★ Water Sampling Point
 - Rivers
 - Lakes



Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16C
Spawning Sections as Surveyed by the
Northern Regional Fisheries Board within the
Donegal Bay Catchment**



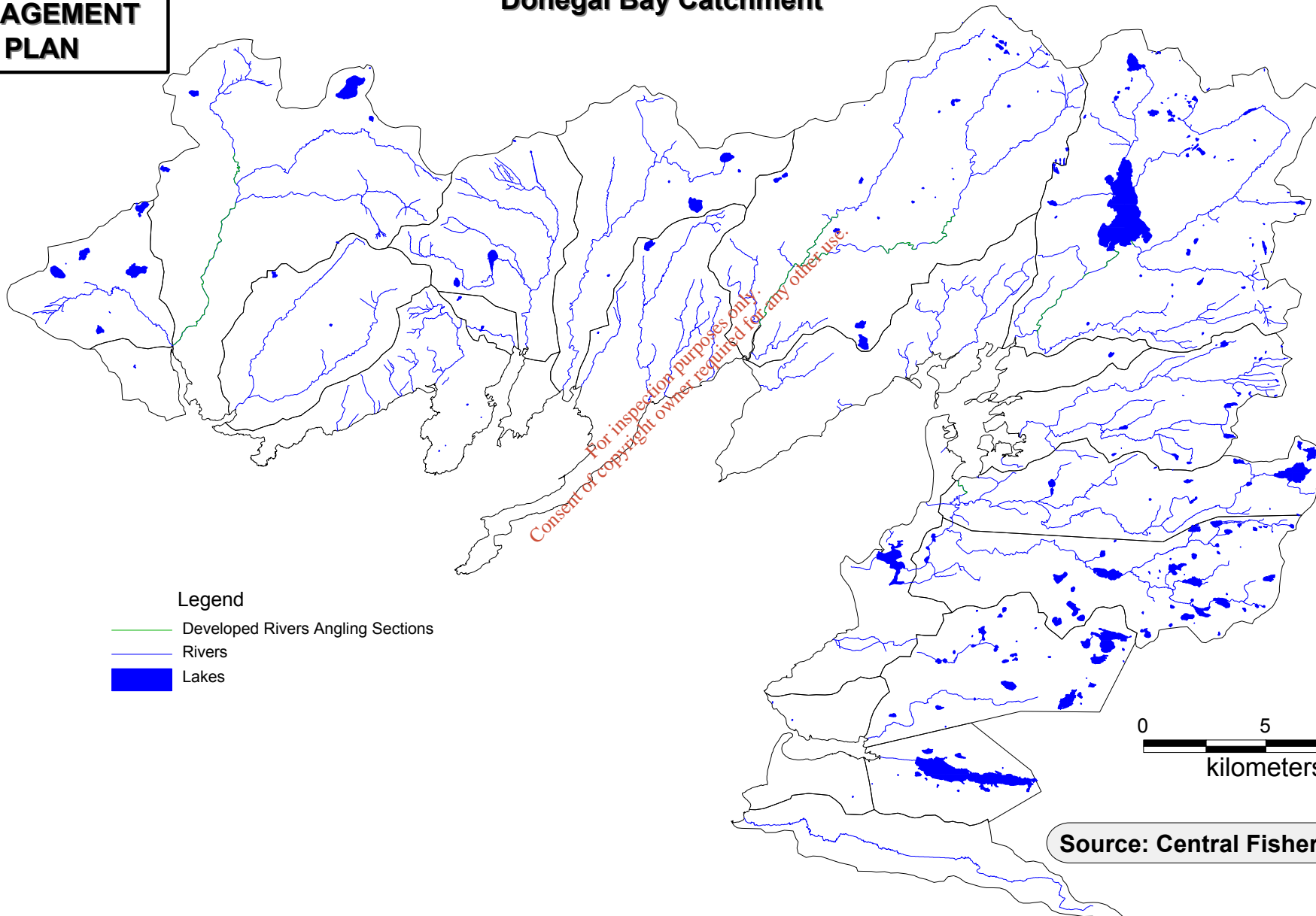
Legend

- Spawning Section
- Rivers
- Lakes

Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16D
River Water Developed for Angling within the
Donegal Bay Catchment**

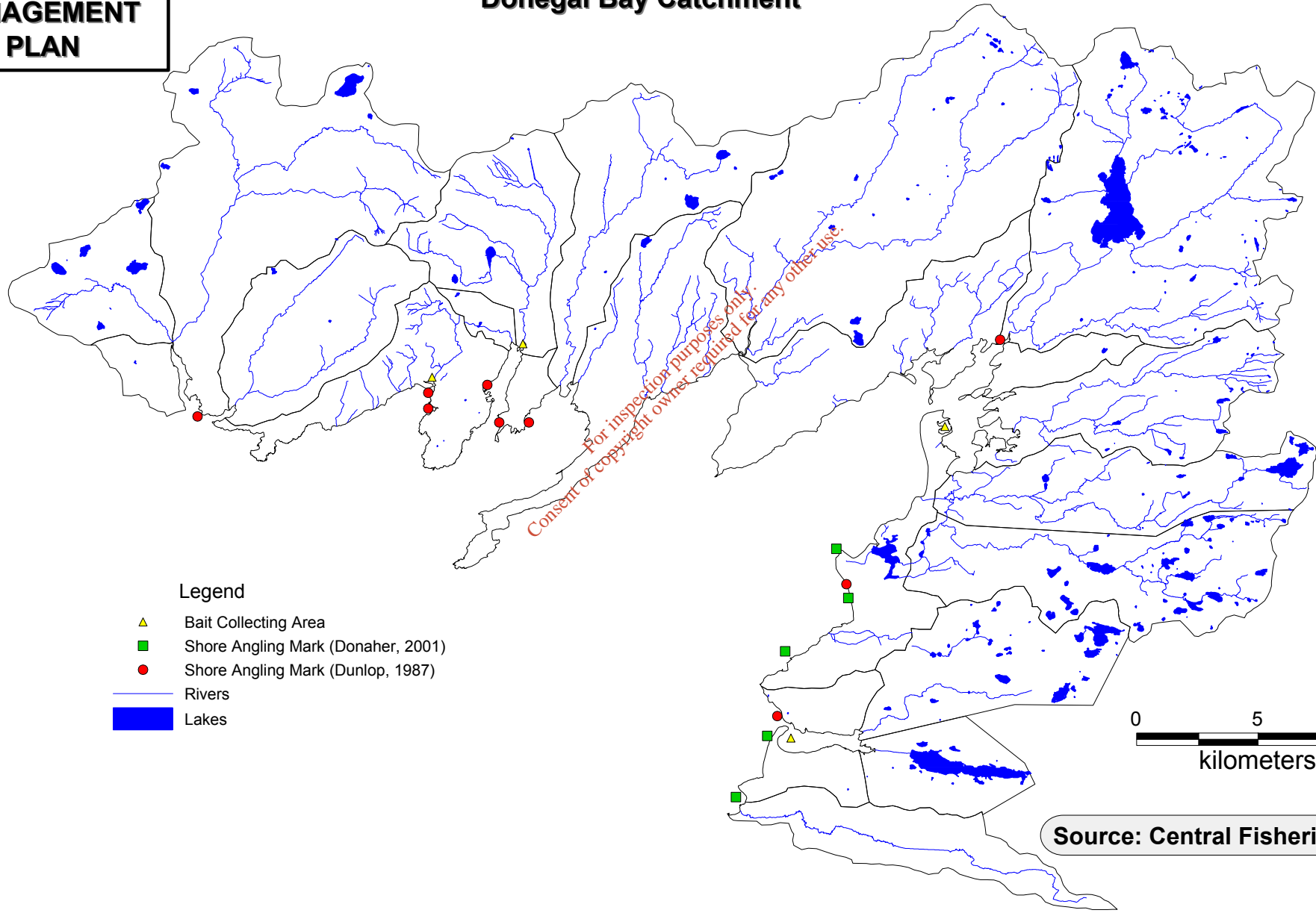


- Legend**
- Developed Rivers Angling Sections
 - Rivers
 - Lakes






Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16E
Sea Angling Shore Marks around the
Donegal Bay Catchment**



Legend

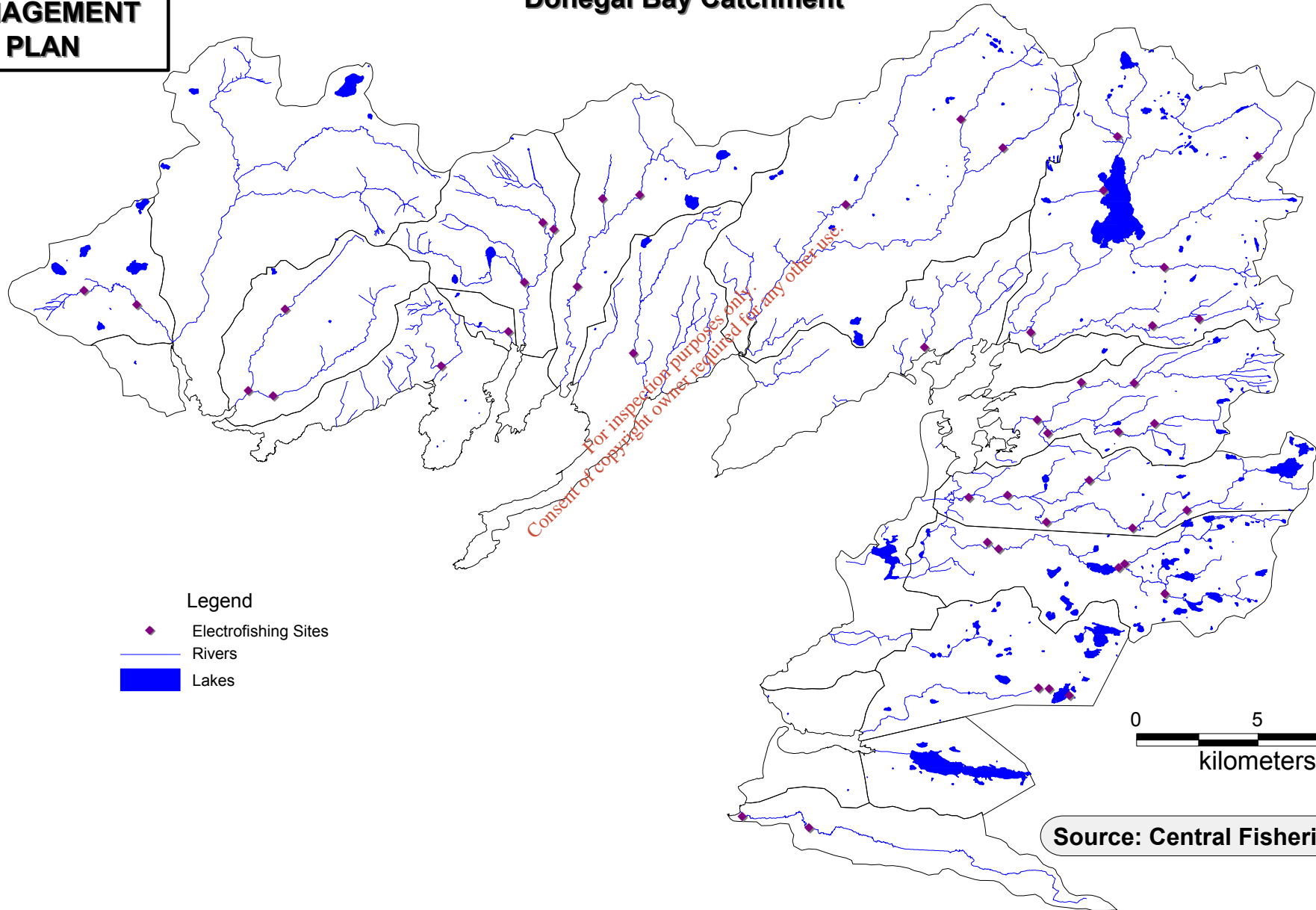
-  Bait Collecting Area
-  Shore Angling Mark (Donaher, 2001)
-  Shore Angling Mark (Dunlop, 1987)
-  Rivers
-  Lakes



Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16F
Electrofishing Sites (2000 - 2001) within the
Donegal Bay Catchment**

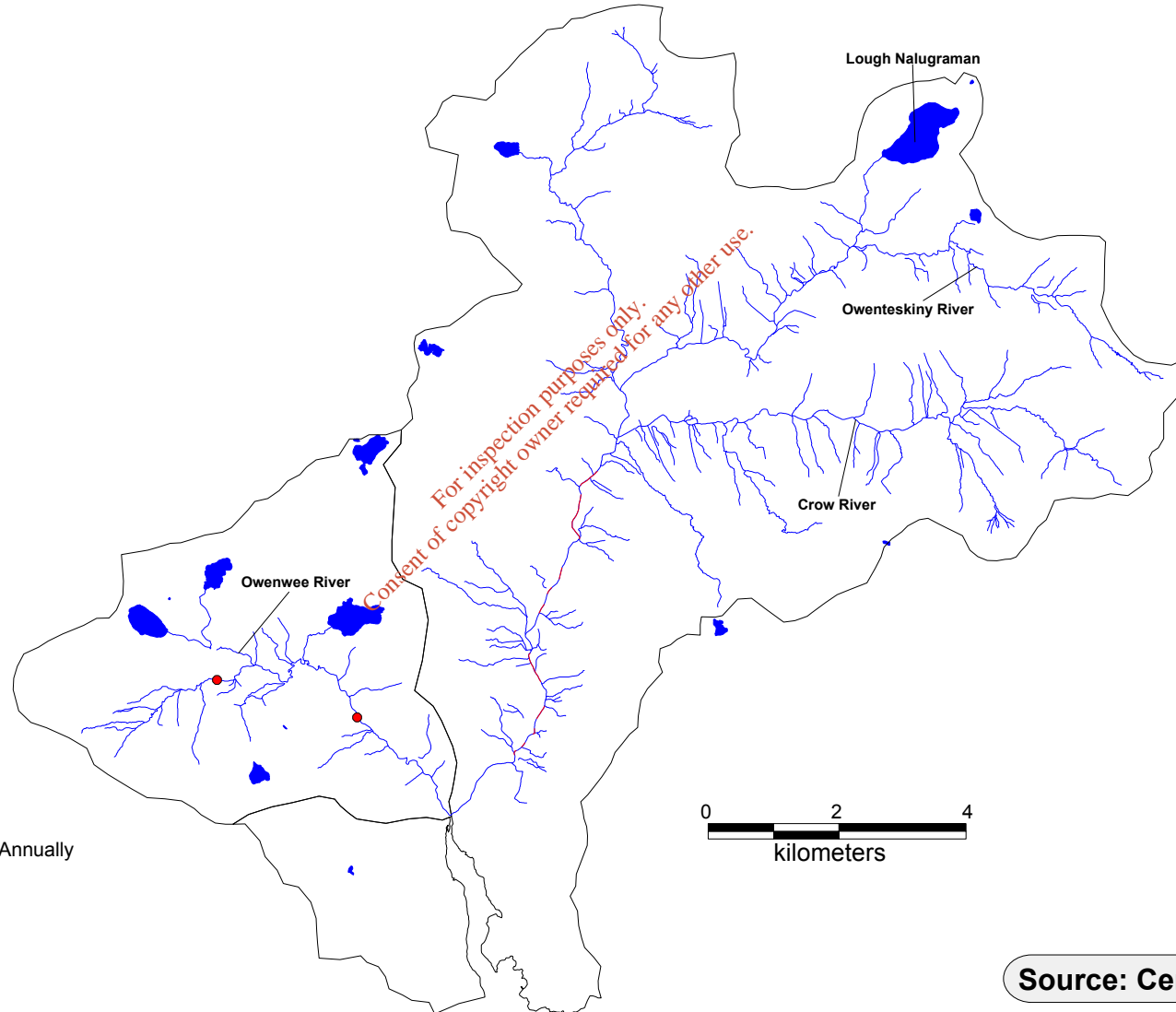


- Legend**
- ◆ Electrofishing Sites
 - Rivers
 - Lakes

Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16G
Glen River Catchment**

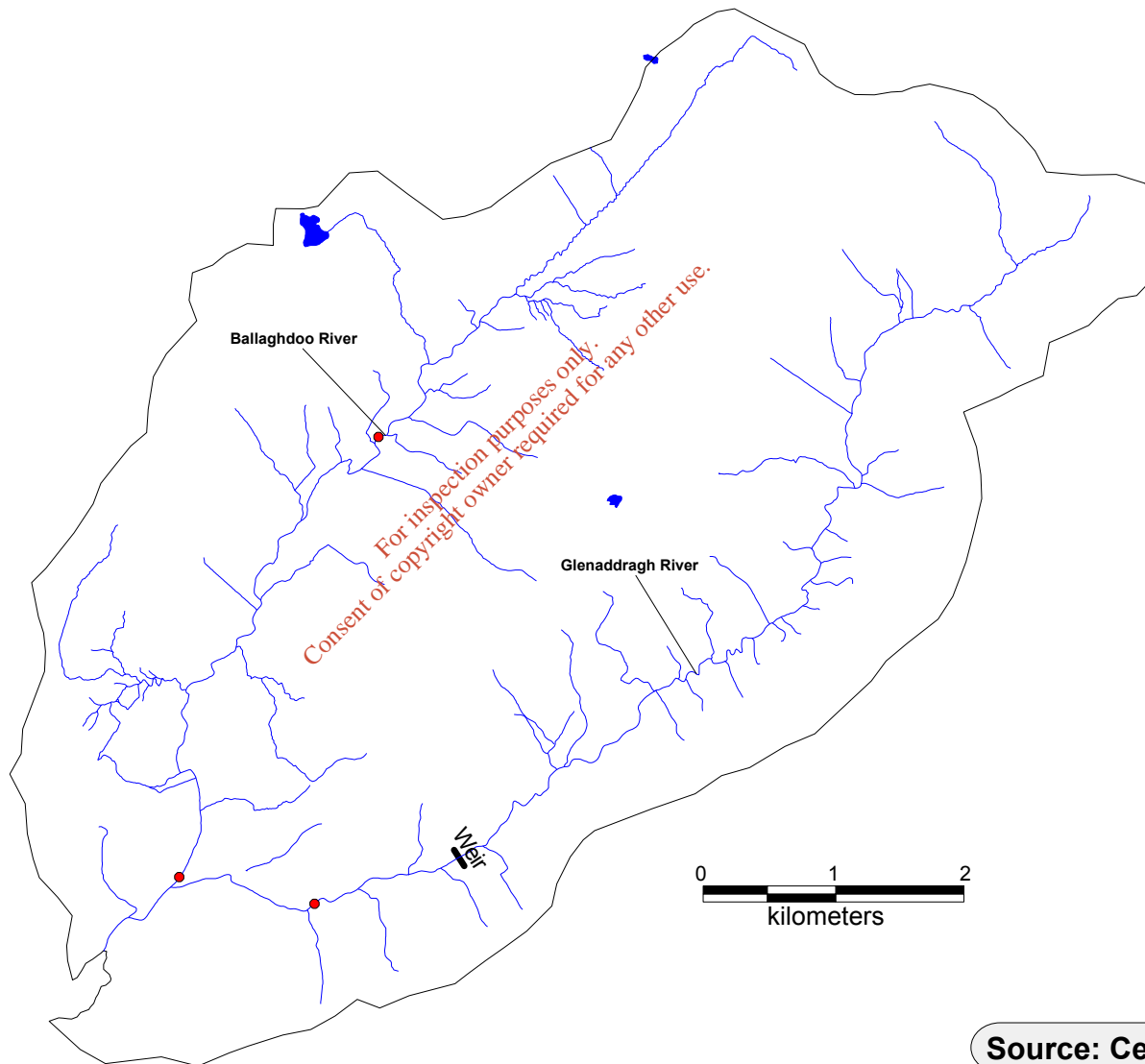


- Legend**
- Spawning Sections Surveyed Annually
 - Electrofishing Sites
 - Rivers
 - Lakes

Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16H
Ballaghdoe/ Glenaddragh River Catchment**



- Legend**
- Electrofishing Sites
 - Weir
 - River
 - Lakes

Source: Central Fisheries Board

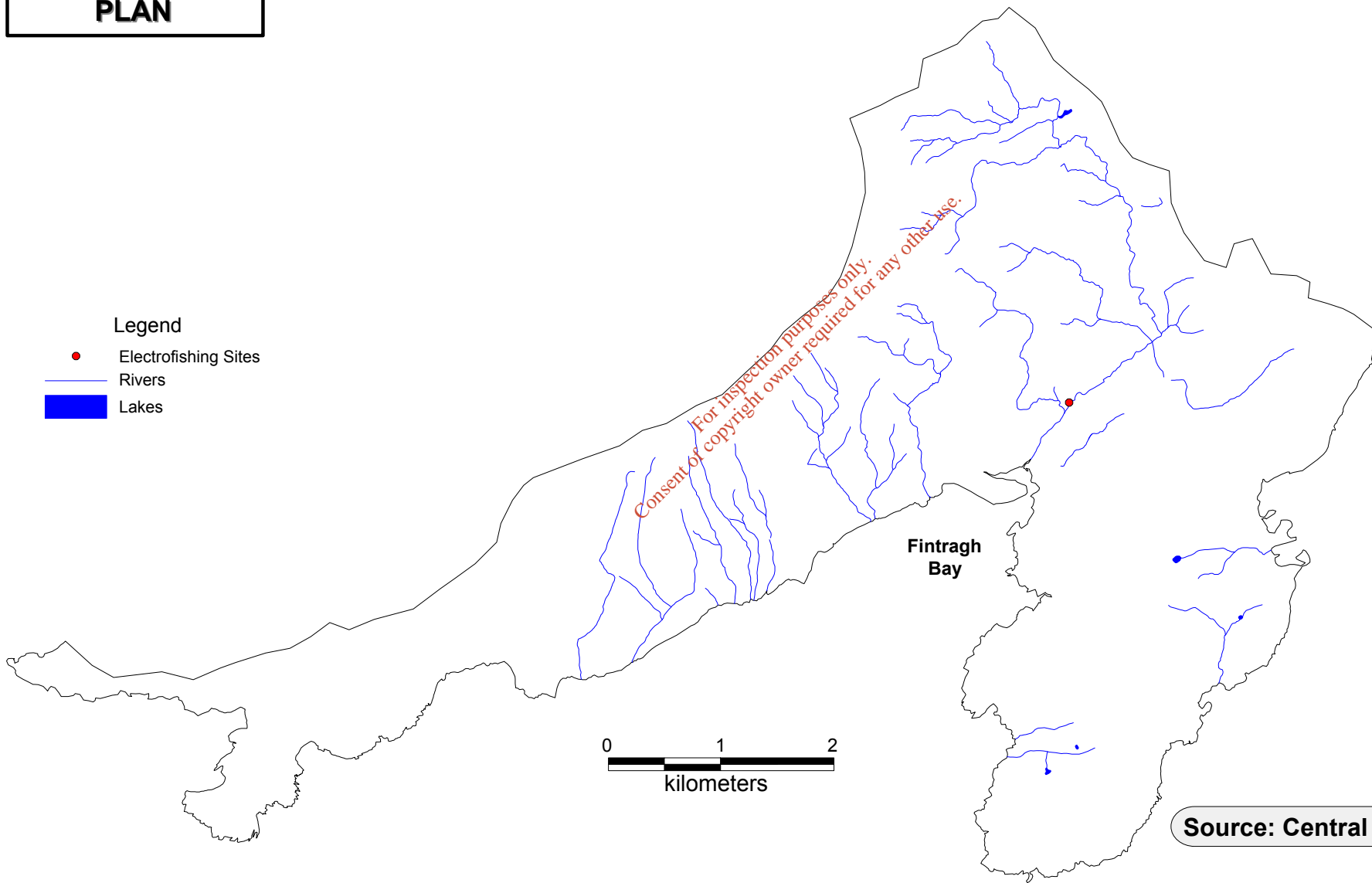
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16I
Fintragh Bay Catchment**



- Legend**
- Electrofishing Sites
 - Rivers
 - Lakes

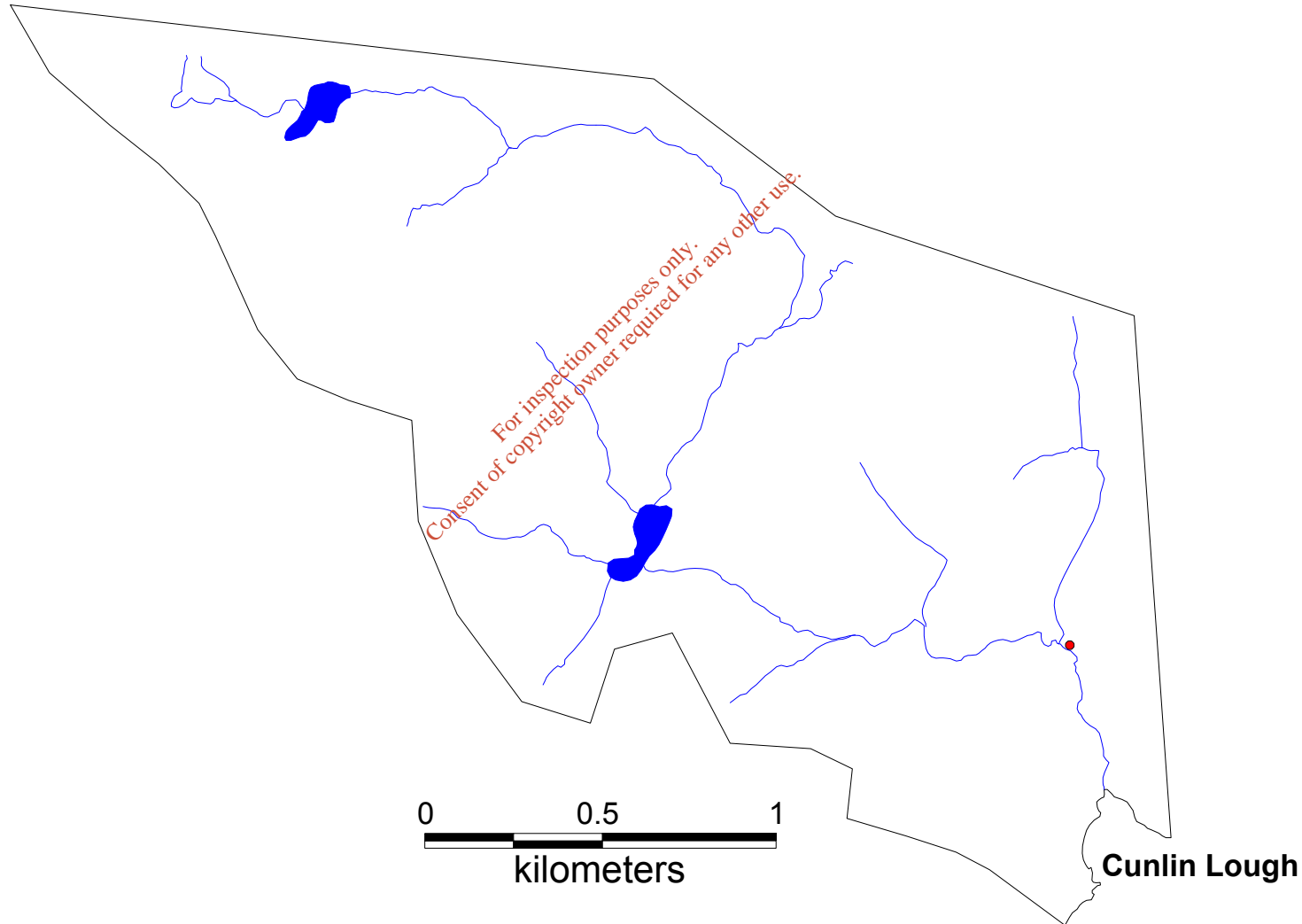
*Consent of copyright owner required for any other use.
For inspection purposes only.*



Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16J
Cunlin Lough Catchment**



- Legend
- Electrofishing Sites
 - Rivers
 - Lakes

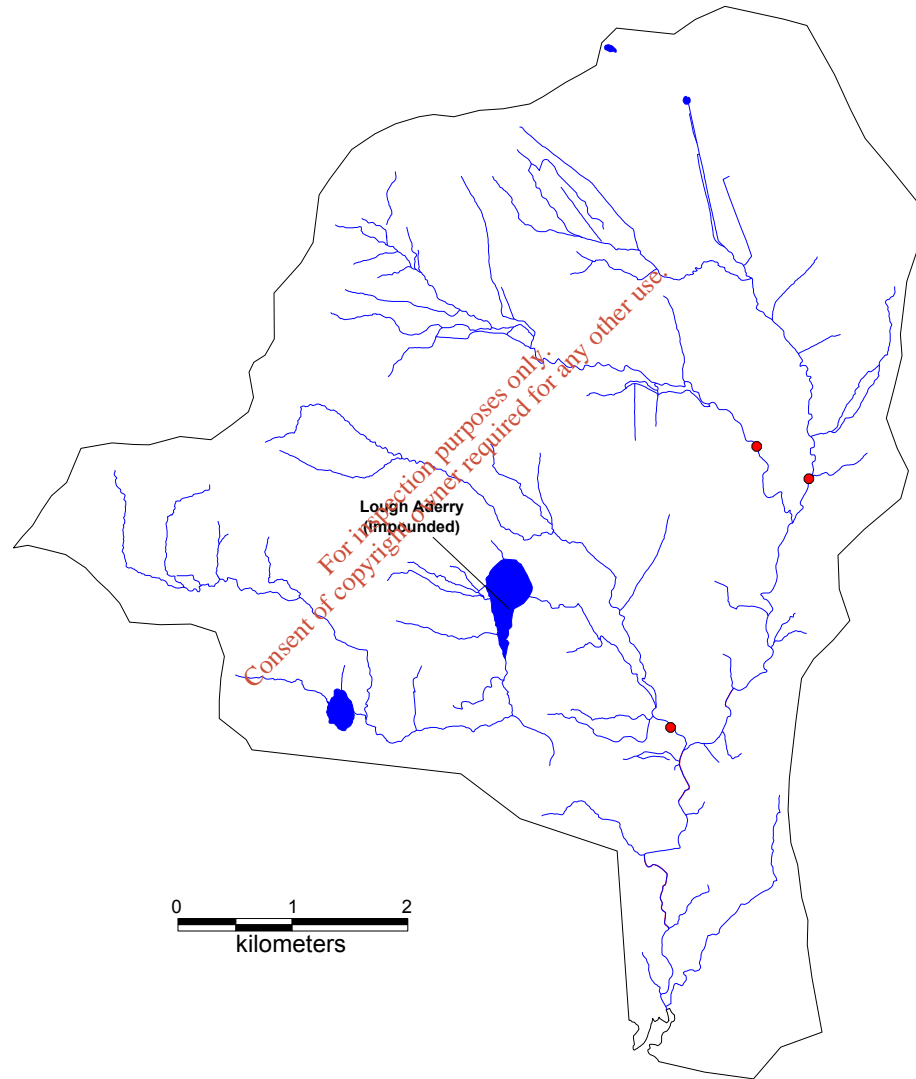
0 0.5 1
kilometers

Cunlin Lough

Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16K
Bungosteen River Catchment**



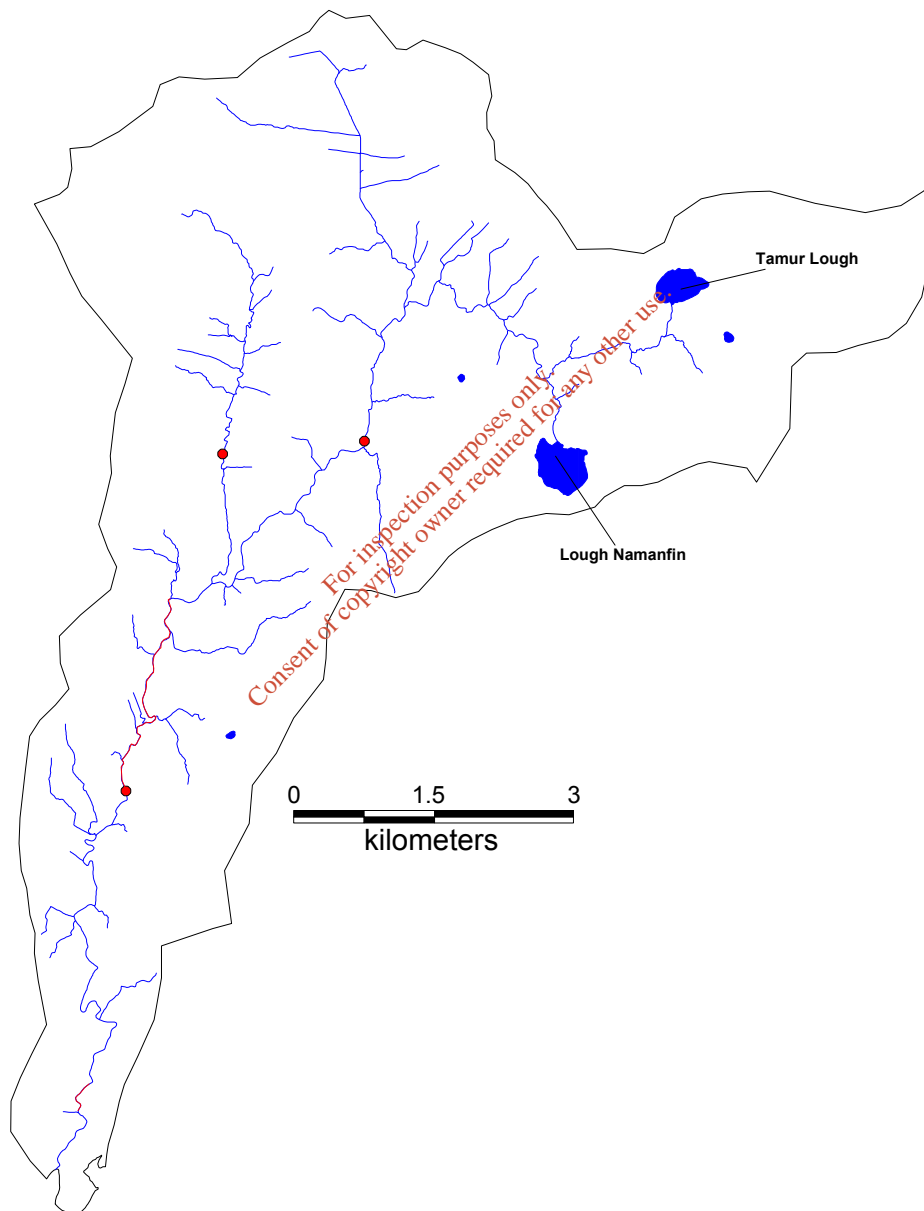
- Legend**
- Electrofishing Sites
 - Spawning Section Surveyed Anually
 - Rivers
 - Lakes



Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16L
Oily River Catchment**

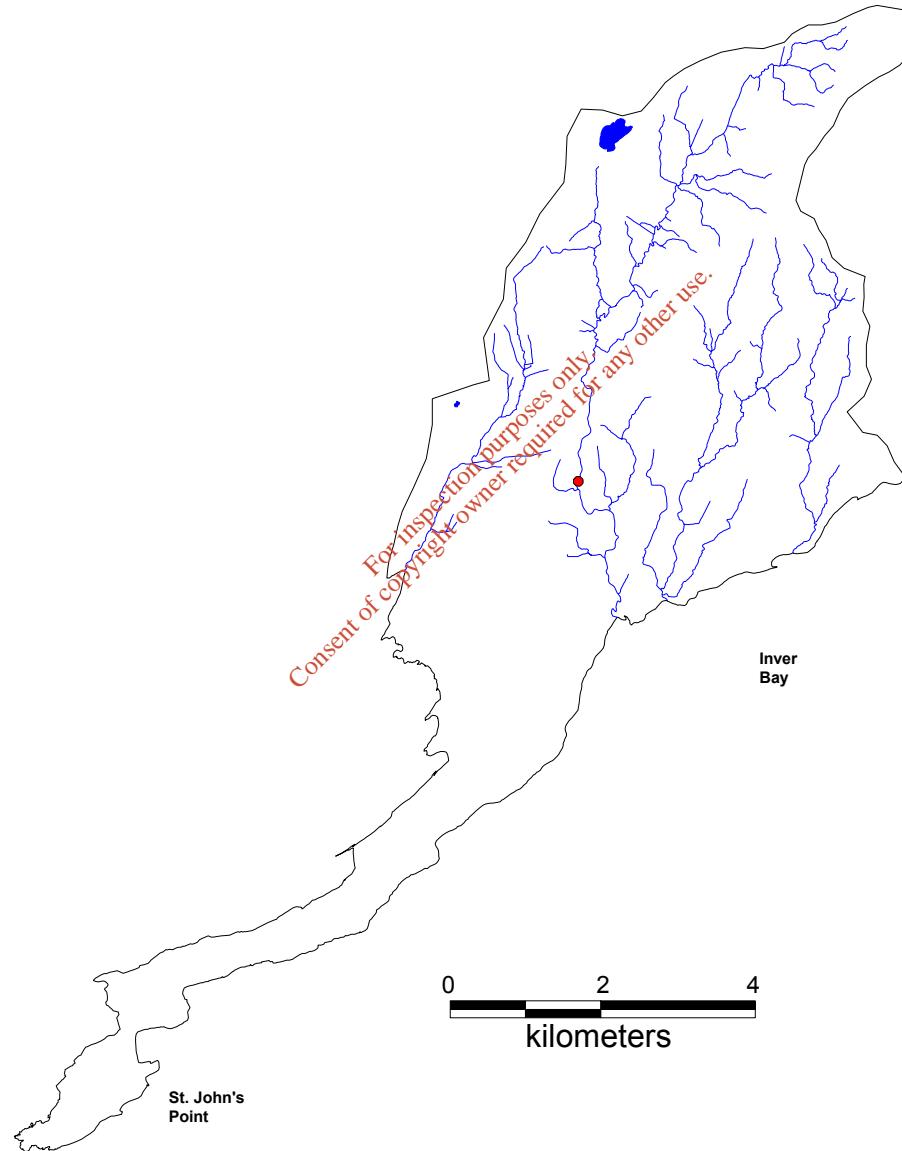


- Legend**
- Spawning Sections Surveyed Annually
 - Electrofishing Sites
 - Rivers
 - Lakes

Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16M
Bun Lacky River Catchment**

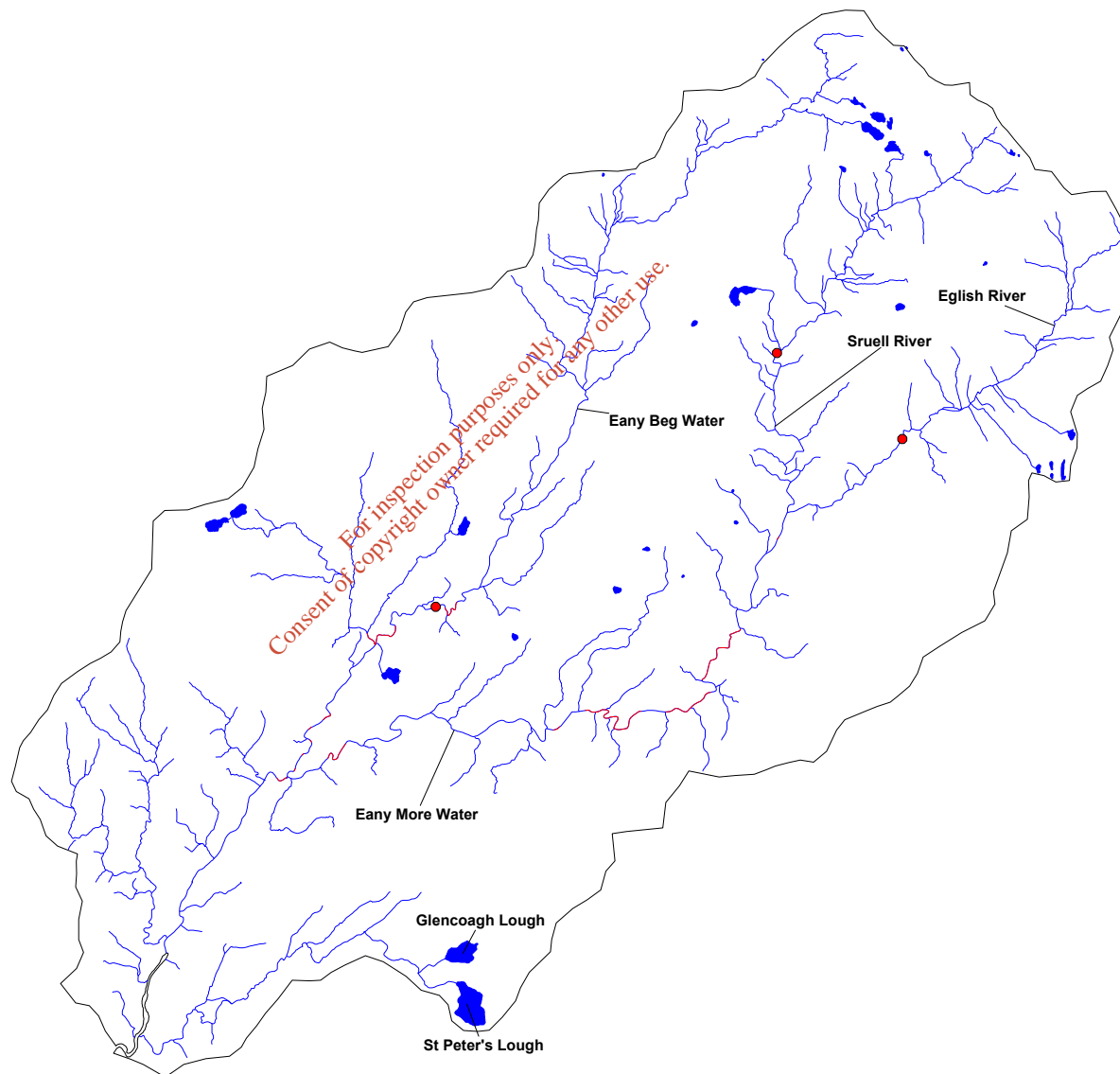


- Legend**
- Electrofishing Sites
 - Rivers
 - Lakes

Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16N
Eany River Catchment**

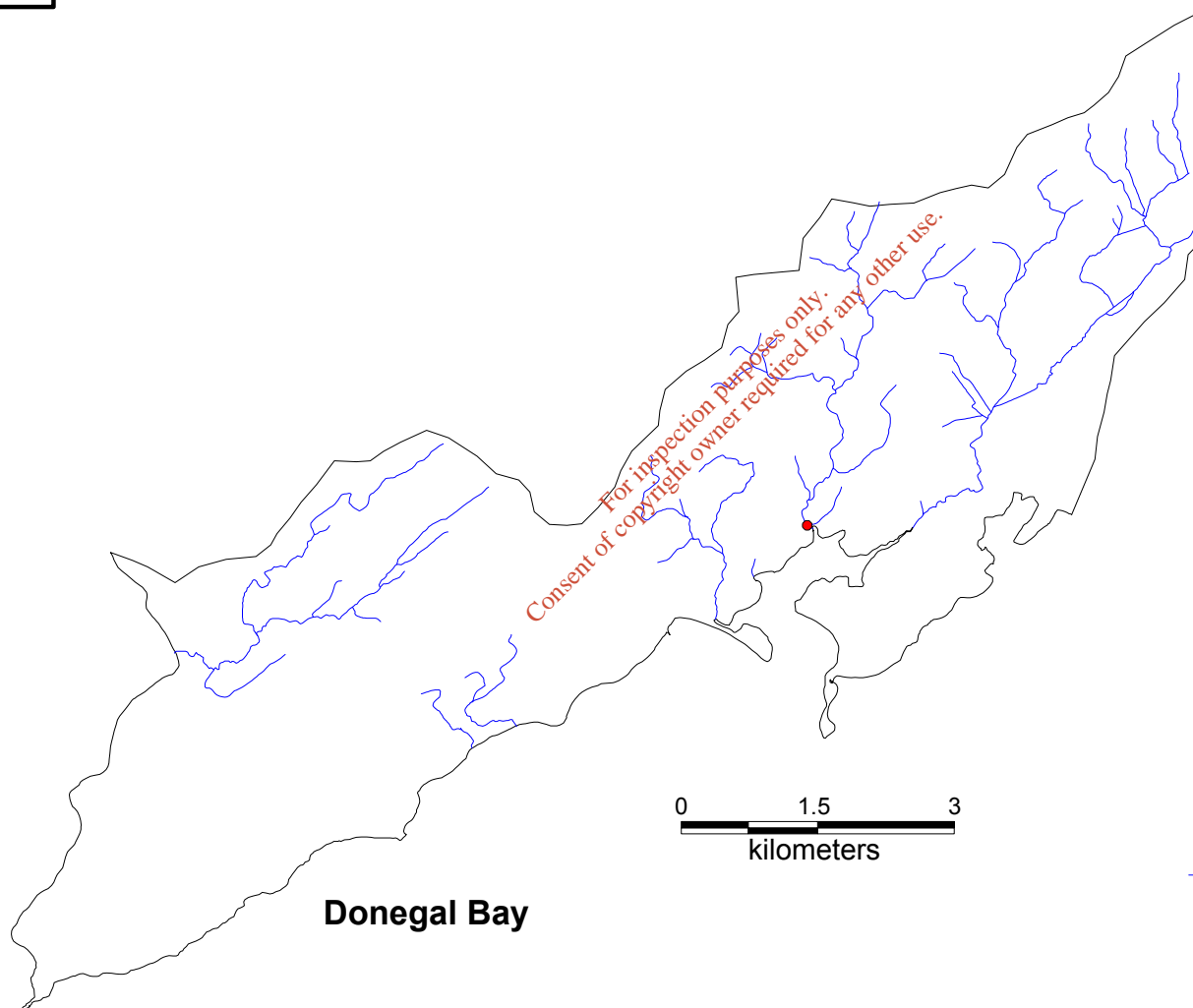


- Legend**
- Electrofishing Sites
 - Spawning Sections Surveyed Annually
 - Rivers
 - Lakes

Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 160
Eddrim River Catchment**



- Legend**
- Electrofishing Sites
 - Rivers

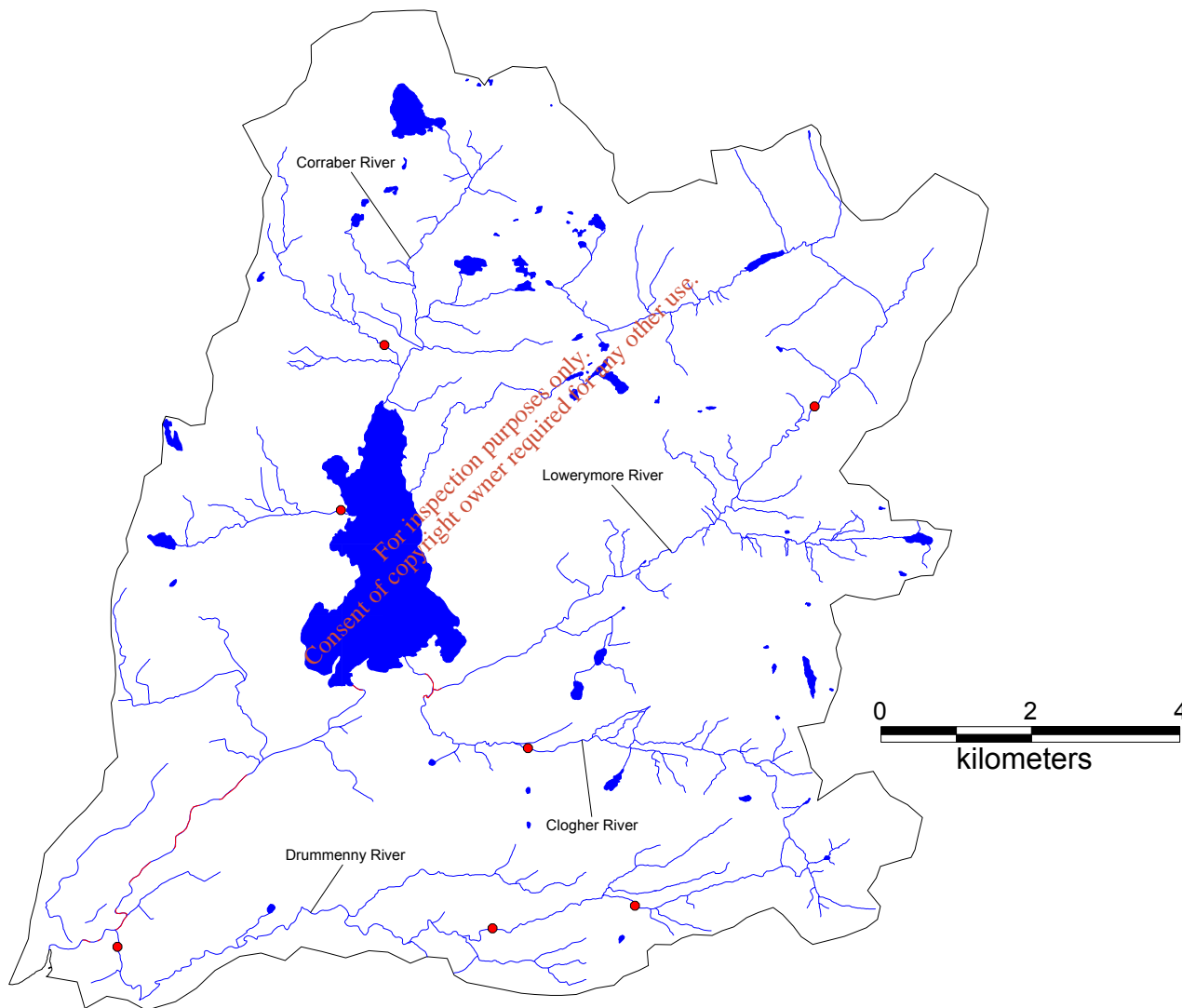
Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16P
Eske River Catchment**



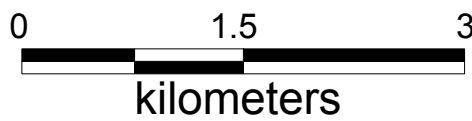
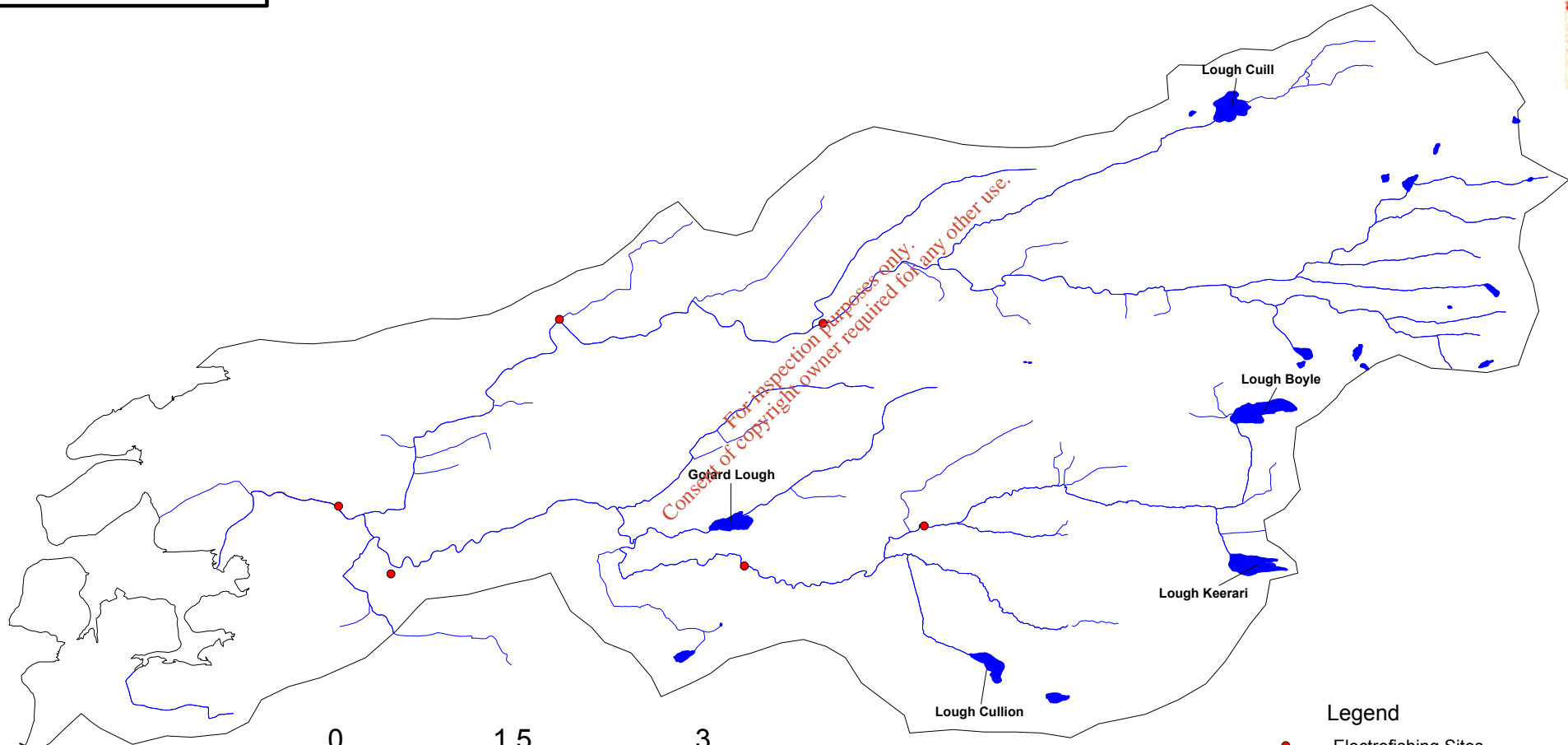
- Legend**
- Electrofishing Sites
 - Spawning Sections Surveyed Annually
 - Rivers
 - Lakes



Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16Q
Laghy River Catchment**

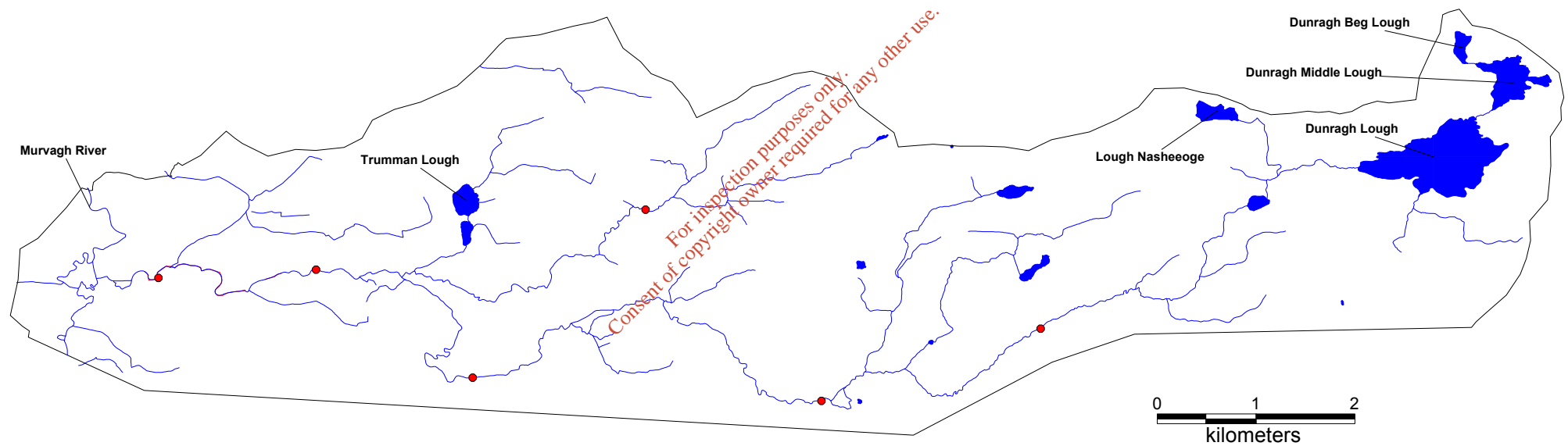


- Legend**
- Electrofishing Sites
 - Spawning Sections Surveyed Annually
 - Rivers
 - Lakes

Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16R
Bridgetown Catchment**

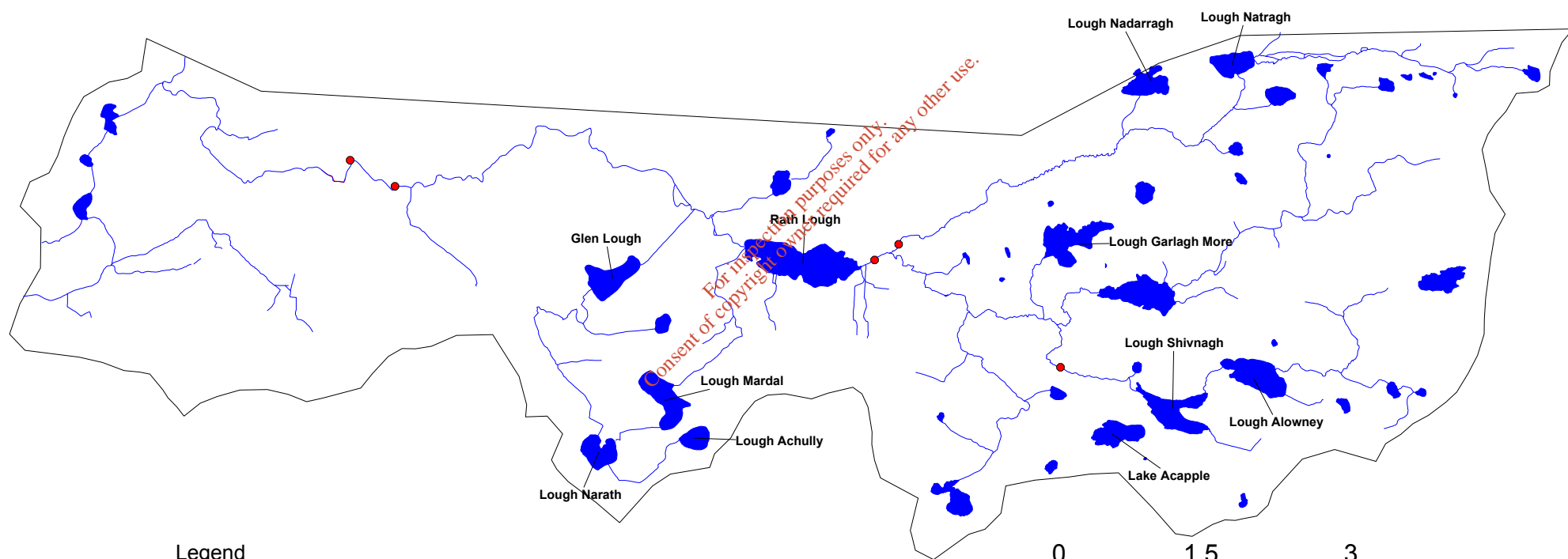


- Legend**
- Electrofishing Sites
 - Spawning Sections Surveyed Annually
 - Rivers
 - Lakes

Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16S
Ballintra Catchment**



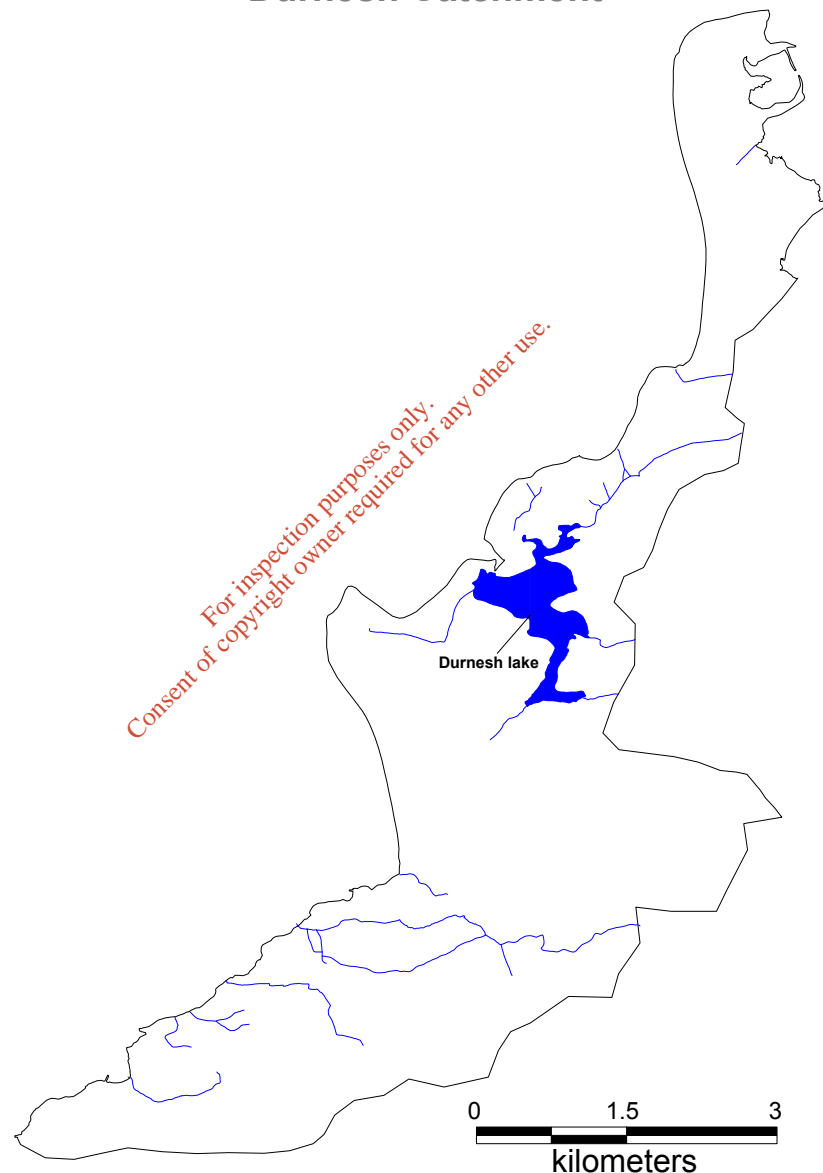
- Legend**
- Electrofishing Sites
 - Spawning Sections Surveyed Annually
 - Rivers
 - Lakes



Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16T
Durnesh Catchment**

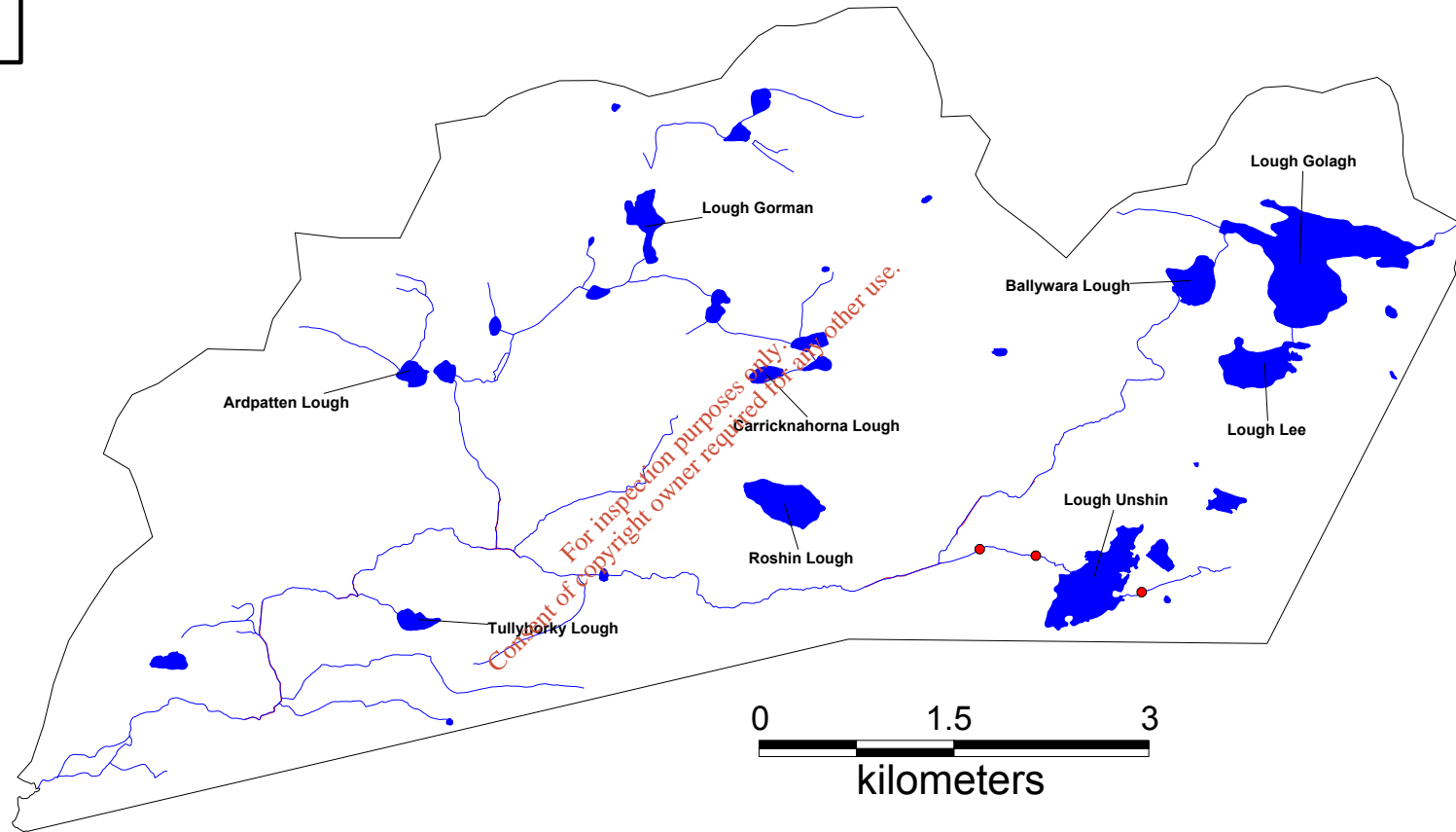


- Legend
- Rivers
 - Lakes

Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16U
Abbey Catchment**



- Legend**
- Electrofishing Sites
 - Spawning Sections Surveyed Annually
 - Rivers
 - lakes

Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16V
Erne Catchment**



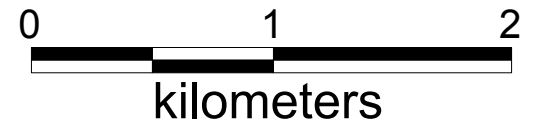
Erne Estuary
(Sea Trout Fishery)

Assaroe Lake

*For inspection purposes only.
Consent of copyright owner required for any other use.*

Legend

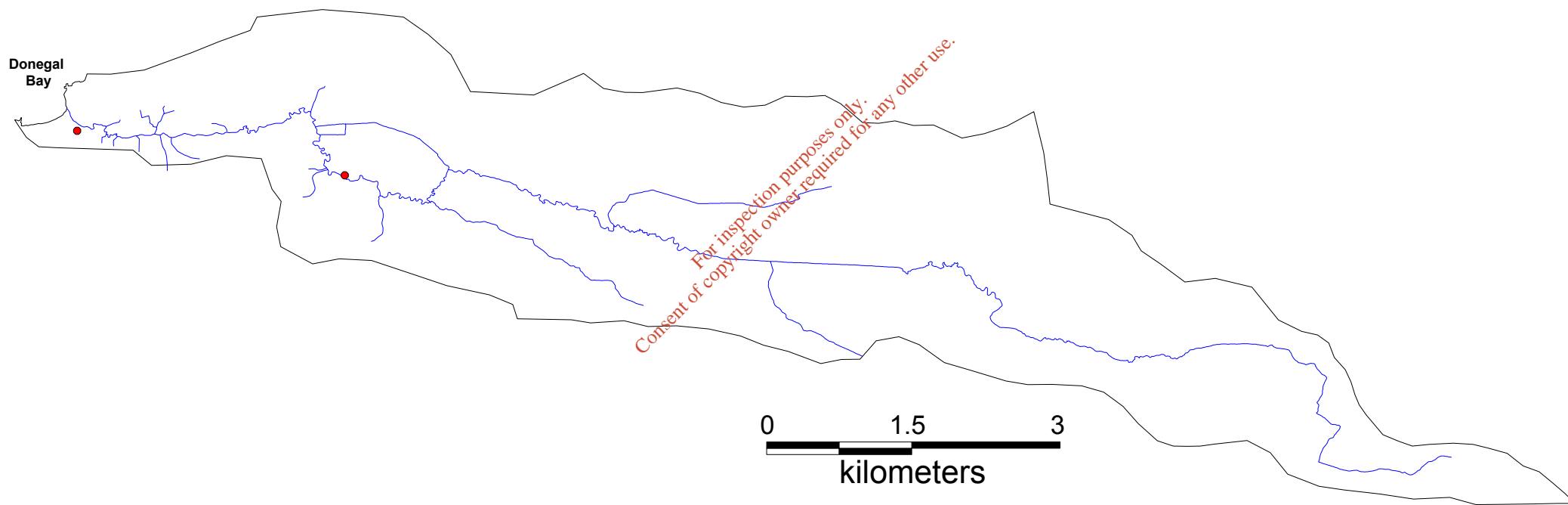
-  Rivers
-  Lakes



Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 16W
Bradogue Catchment**

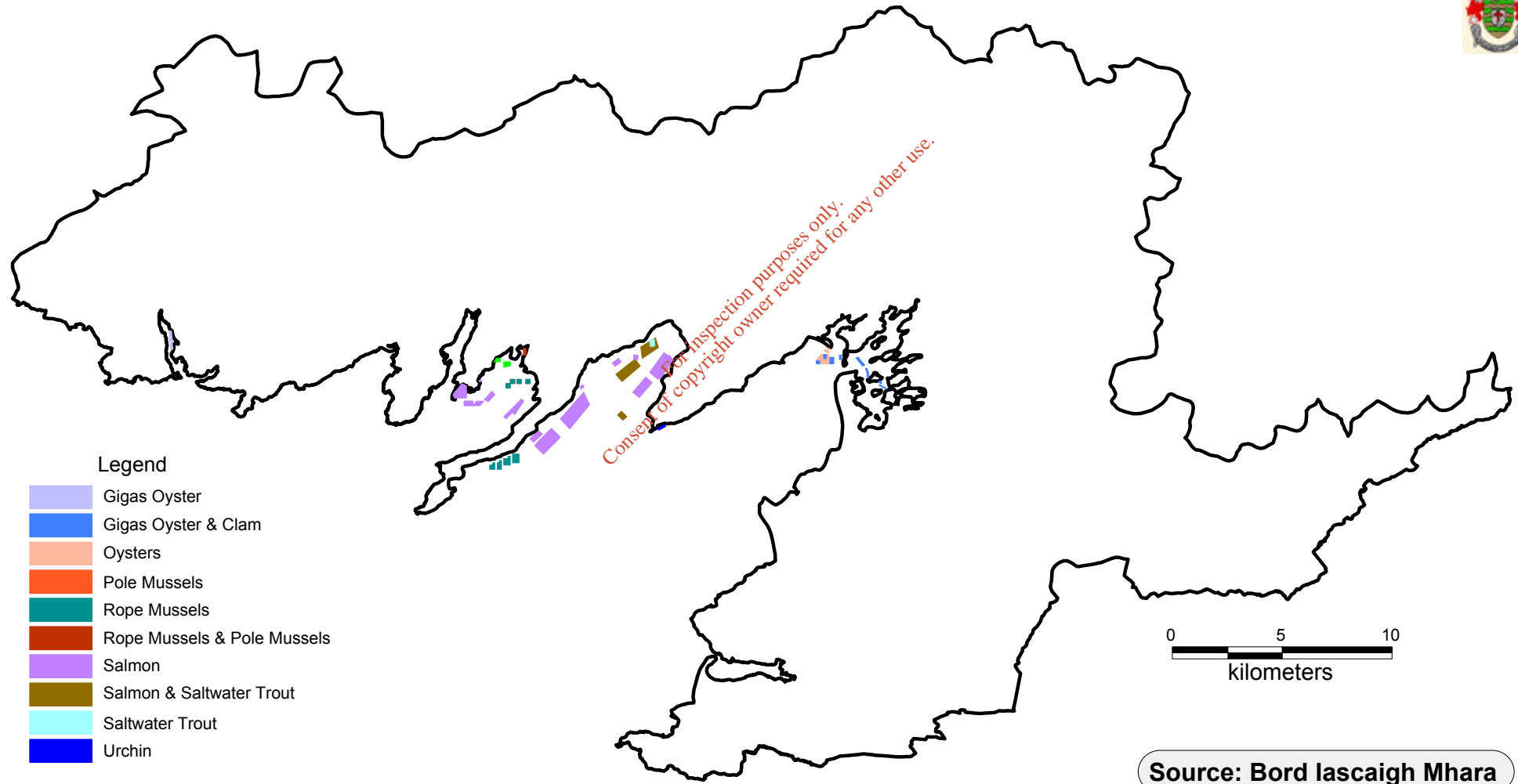


- Legend
- Electrofishing Sites
 - Rivers

Source: Central Fisheries Board

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 17
The Aquaculture Operations
within the Donegal Bay Catchment**



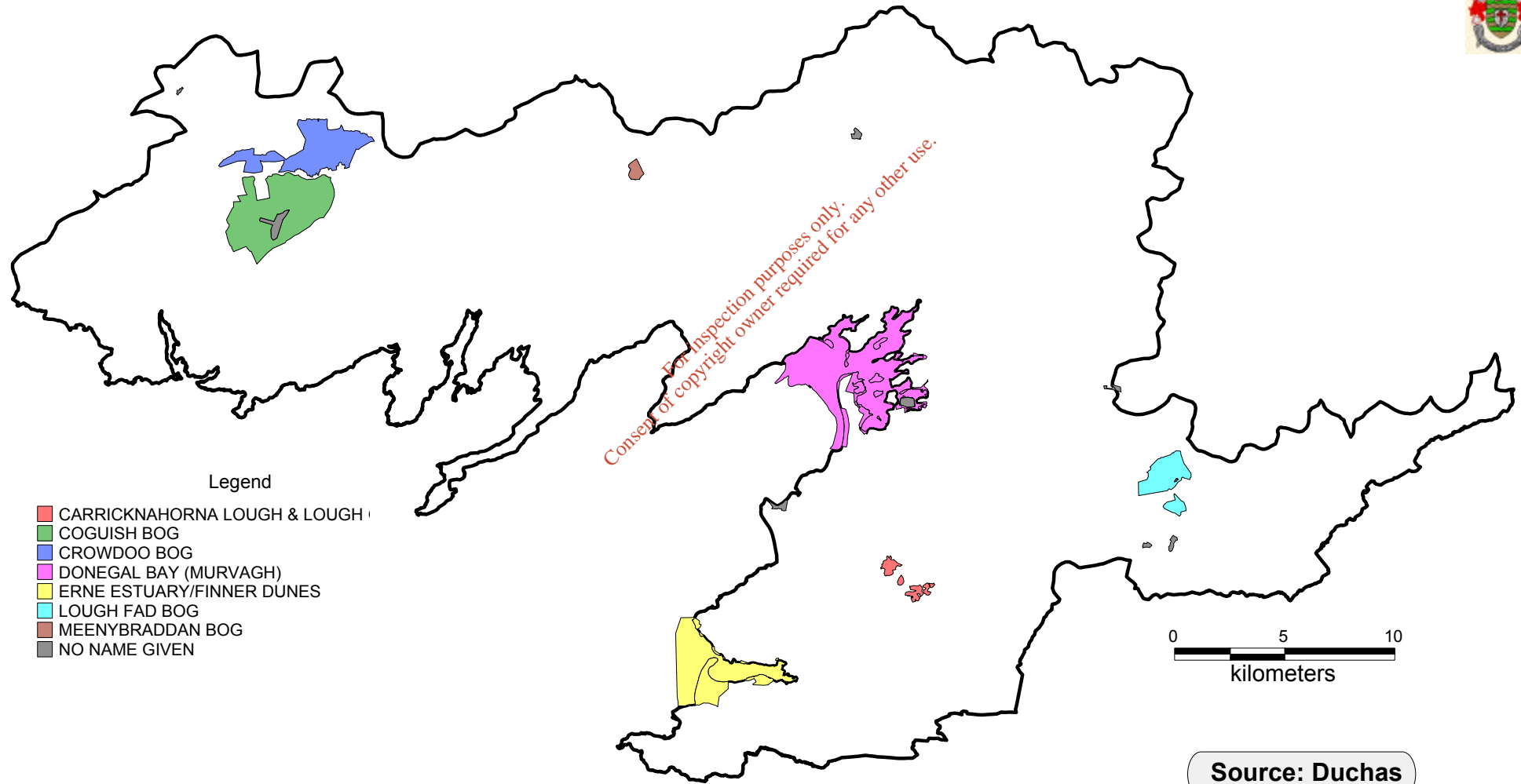
Legend

-  Gigas Oyster
-  Gigas Oyster & Clam
-  Oysters
-  Pole Mussels
-  Rope Mussels
-  Rope Mussels & Pole Mussels
-  Salmon
-  Salmon & Saltwater Trout
-  Saltwater Trout
-  Urchin

Source: Bord Iascaigh Mhara

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 18
The NHA's
within the Donegal Bay Catchment**



**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 19
The SAC's & SPA's
within the Donegal Bay Catchment**



*For inspection purposes only.
Consent of copyright owner required for any other use.*

Legend

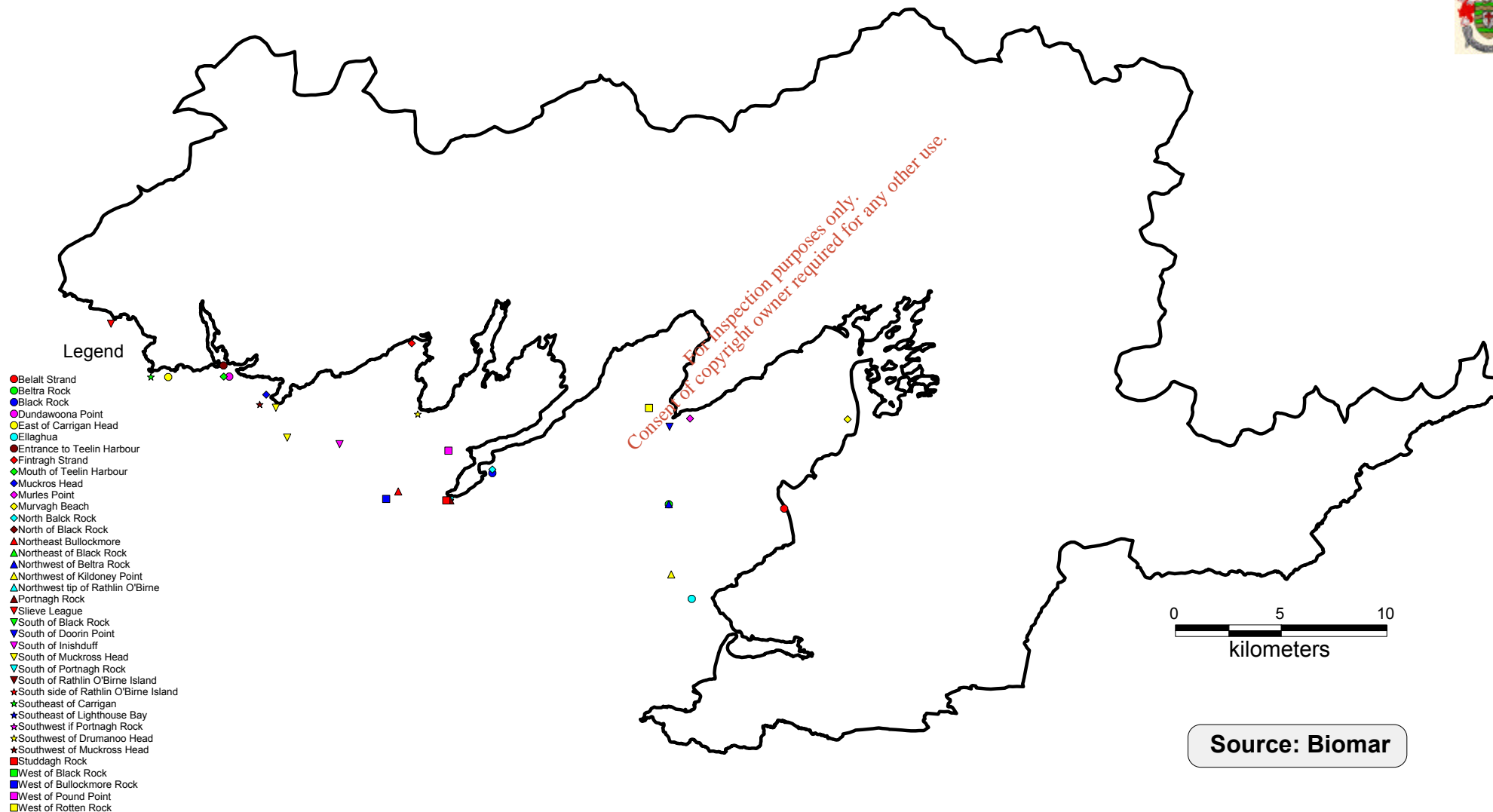
- Ballintra SAC
- Dunragh Loughs/Pettigo Plateau SAC
- Durnesh Lough SAC
- Lough Easke & Ardnamona Wood SAC
- Lough Golagh & Breezy Hill SAC
- Lough Melvin SAC
- Lough Nageage SAC
- Lough Nillian Bog SPA
- Lough Unna/Lough Unshagh Bogs SAC
- Meenaguse Scragh SAC
- Meenaguse/Ardbane Bog SAC
- Owendoo & Cloghervaddy Bogs SAC
- Pettigo Bog SPA
- Slieve League SAC
- Slieve Tooy/Tormore Island/Loughros Bay SAC
- Saint John's Point SAC
- Tamur Bog SAC



Source: Dúchas

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 20
The Biomar Sites
within the Donegal Bay Catchment**

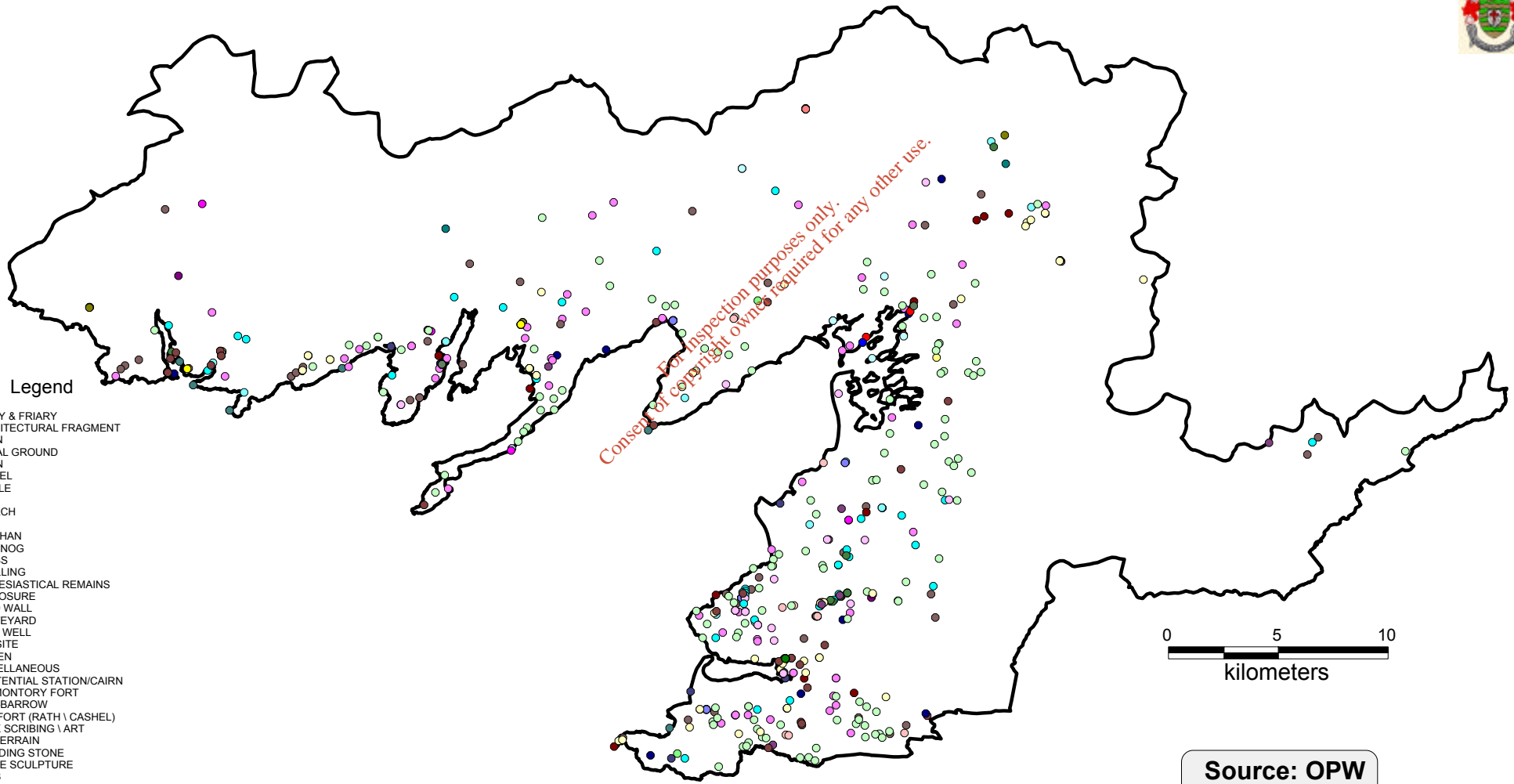


**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 21
The Locations of the Historical Monuments
within the Donegal Bay Catchment**

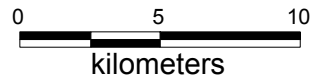


*For inspection purposes only.
Consent of copyright owners required for any other use.*



Legend

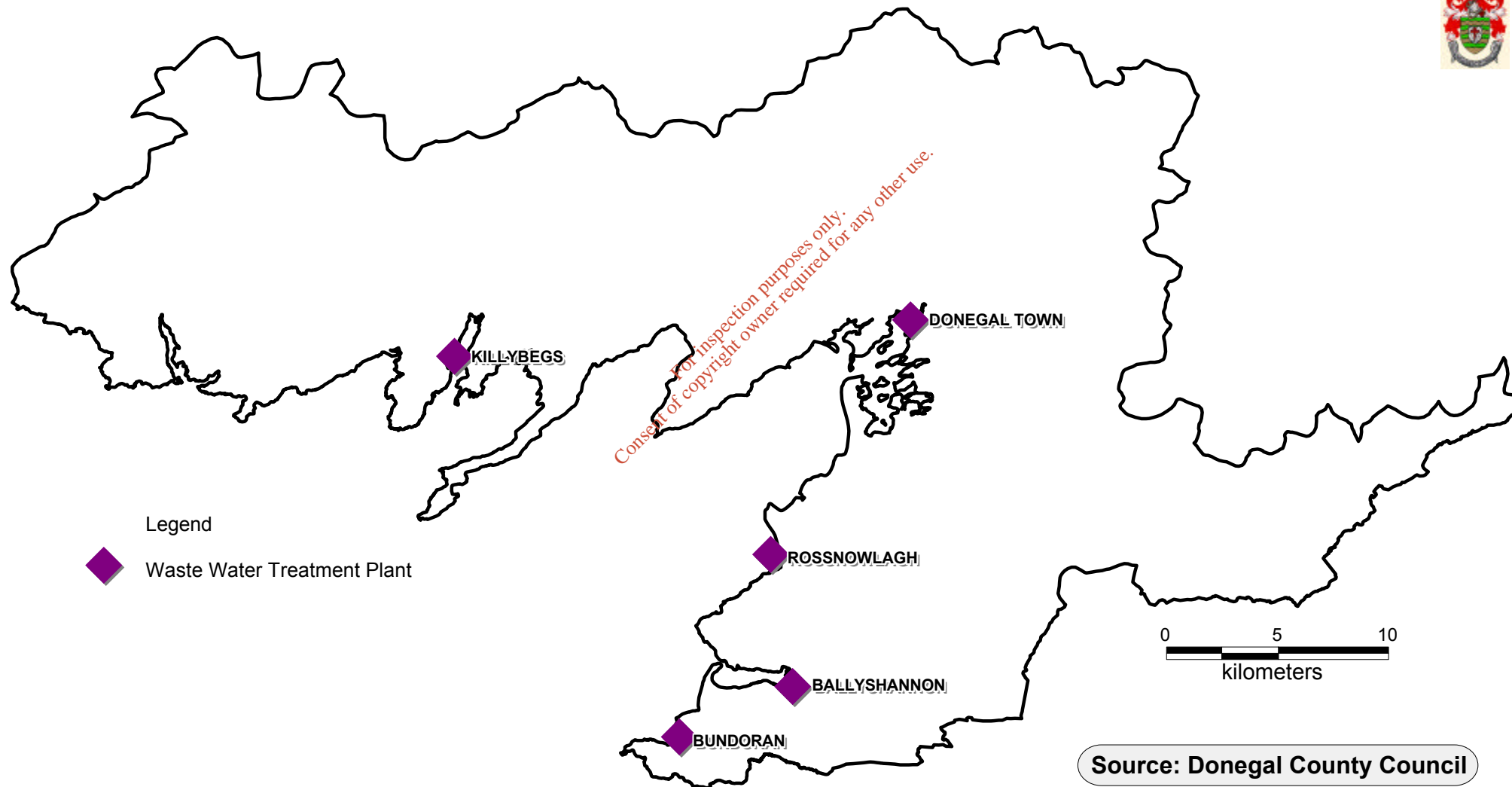
- ABBEY & FRIARY
- ARCHITECTURAL FRAGMENT
- BAWN
- BURIAL GROUND
- CAIRN
- CASHEL
- CASTLE
- CAVE
- CHURCH
- CIST
- CLOCHAN
- CRANNOG
- CROSS
- DWELLING
- ECCLESIASTICAL REMAINS
- ENCLOSURE
- FIELD WALL
- GRAVEYARD
- HOLY WELL
- HUT SITE
- MIDDEN
- MISCELLANEOUS
- PENITENTIAL STATION/CAIRN
- PROMONTORY FORT
- ORING-BARROW
- ORINGFORT (RATH V. CASHEL)
- OROOK SCRIBING \ ART
- OSOUTERRAIN
- OSTANDING STONE
- OSTONE SCULPTURE
- TOMB
- TOWN
- WATERMILL



Source: OPW

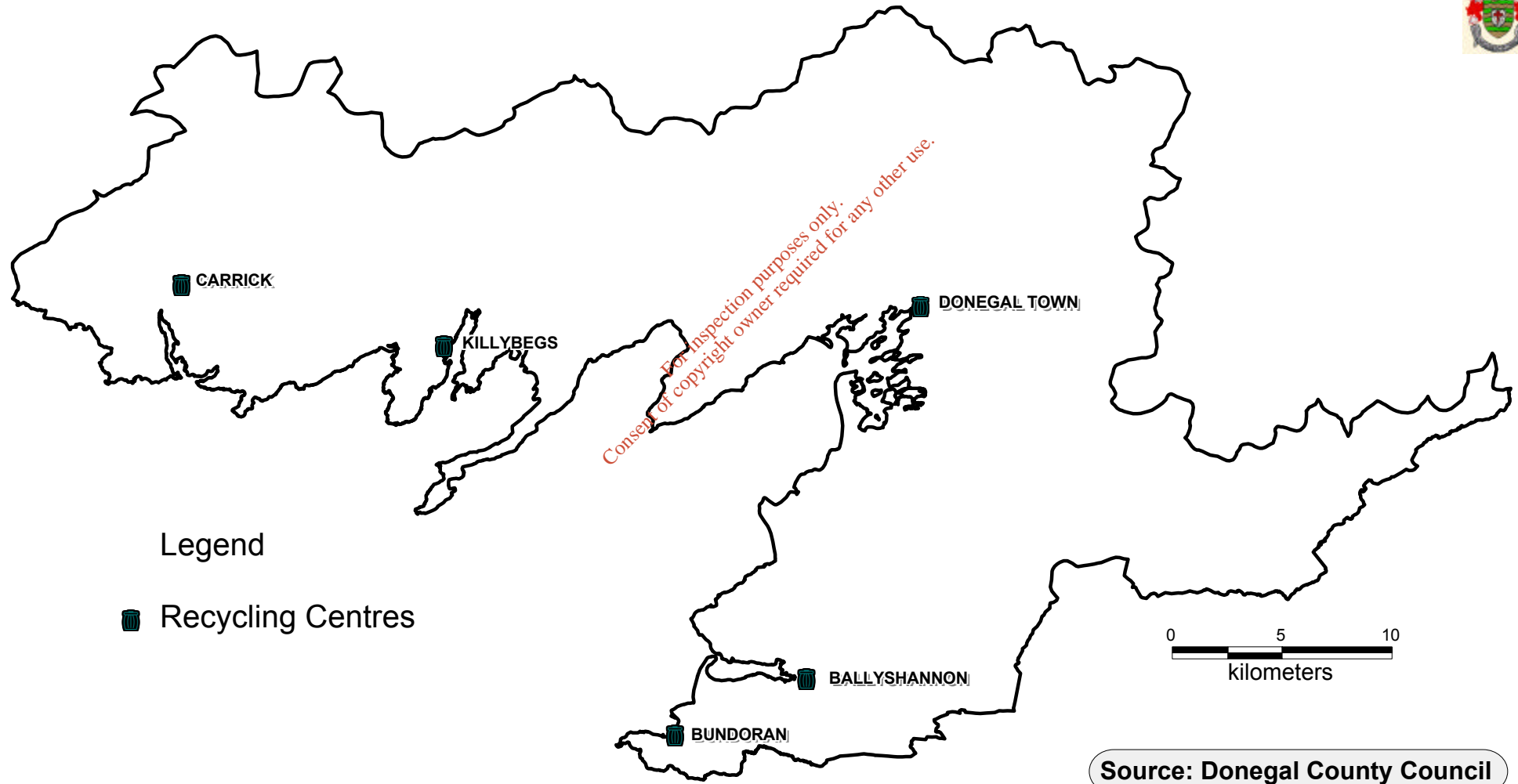
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 22
The Locations of the Key Waste Water Treatment Plants
of the Donegal Bay Catchment**



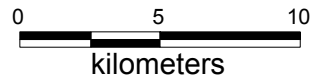
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 23
The Locations of the Recycling Centres
within the Donegal Bay Catchment**



Legend

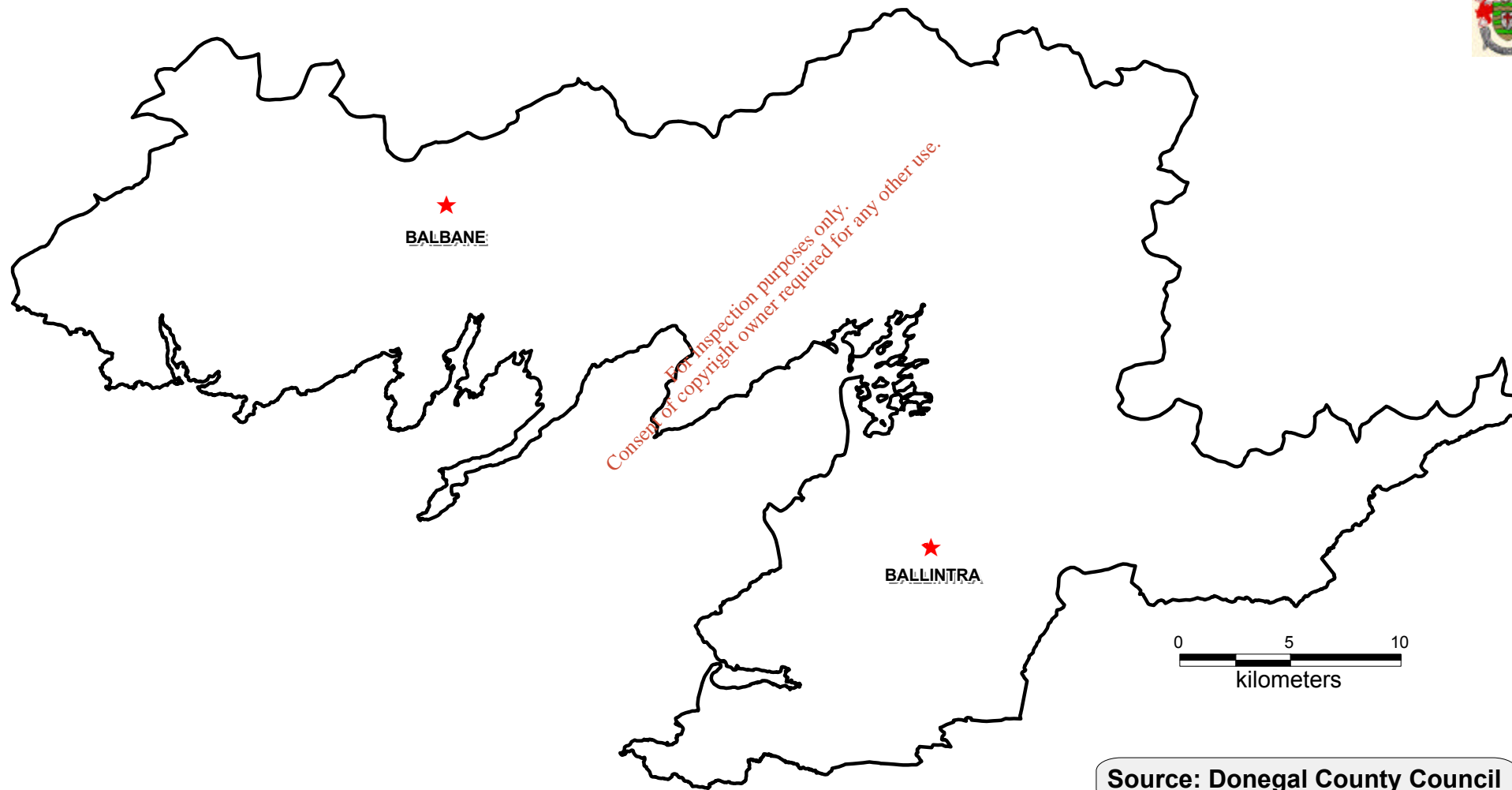
 Recycling Centres



Source: Donegal County Council

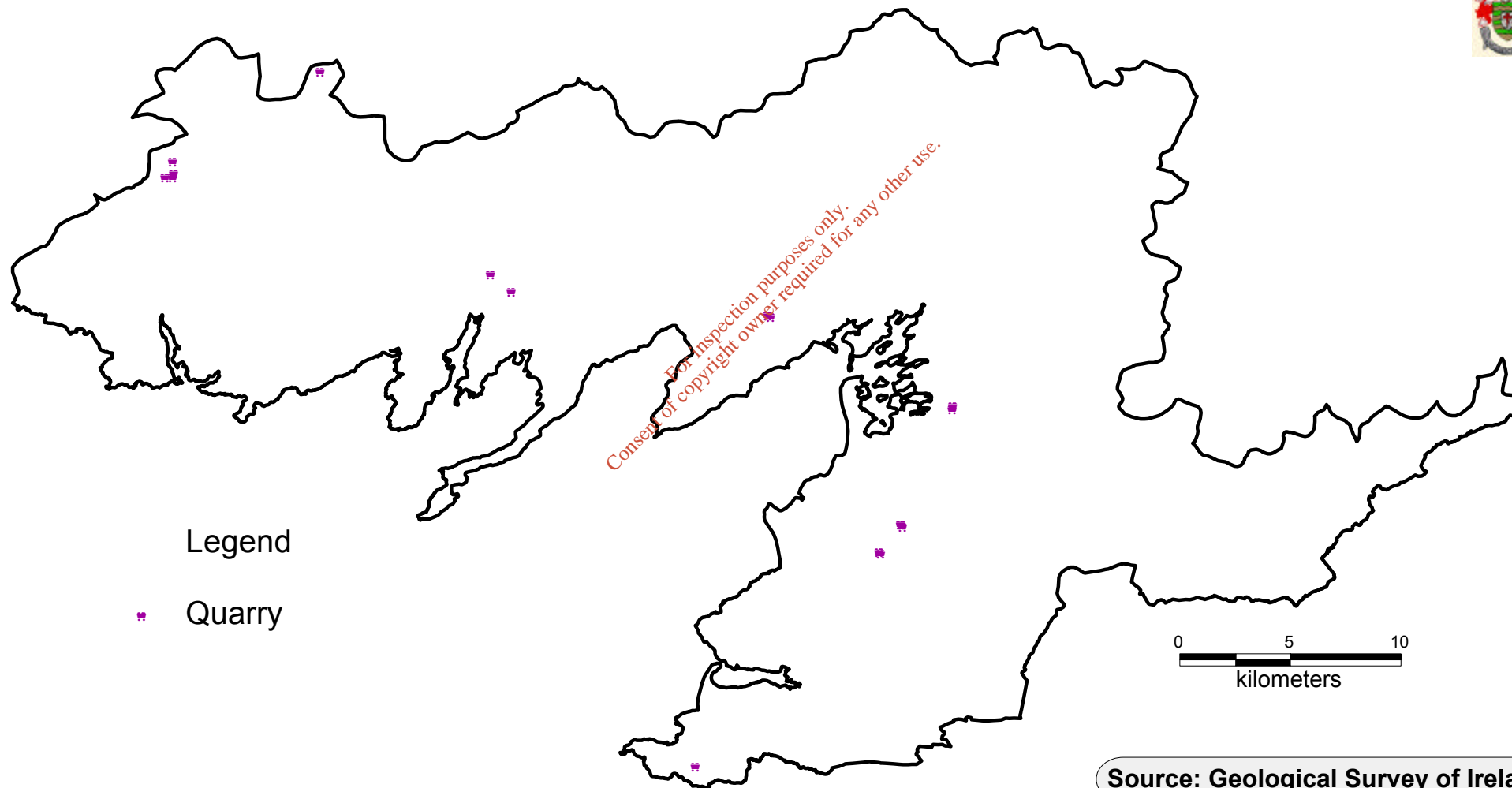
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 24
The Locations of the Landfills
within the Donegal Bay Catchment**



**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

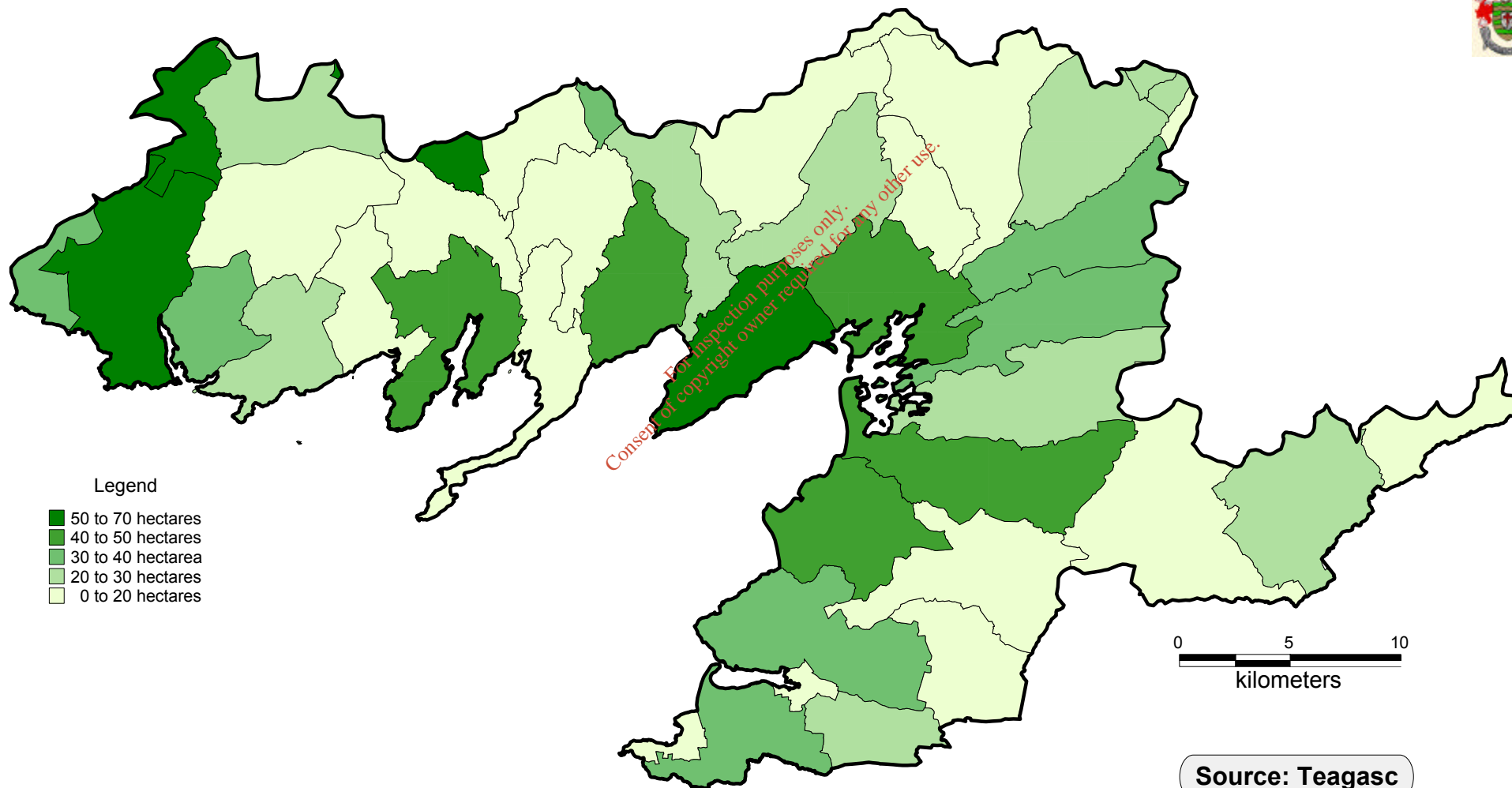
**Map 25
The Locations of the key Quarries
within the Donegal Bay Catchment**



Source: Geological Survey of Ireland

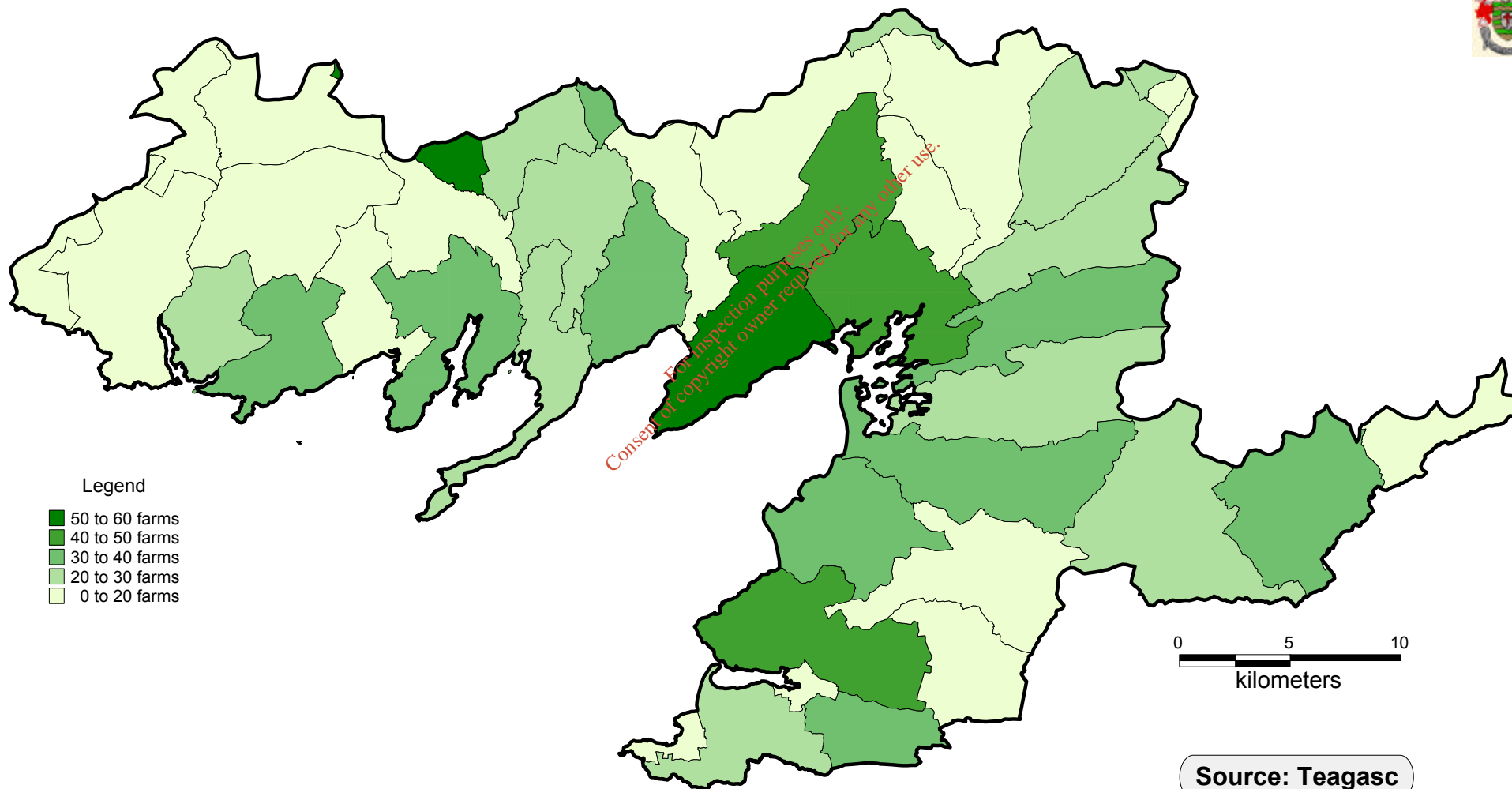
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 26
Total Farms <10 hectares per DED
within the Donegal Bay Catchment**



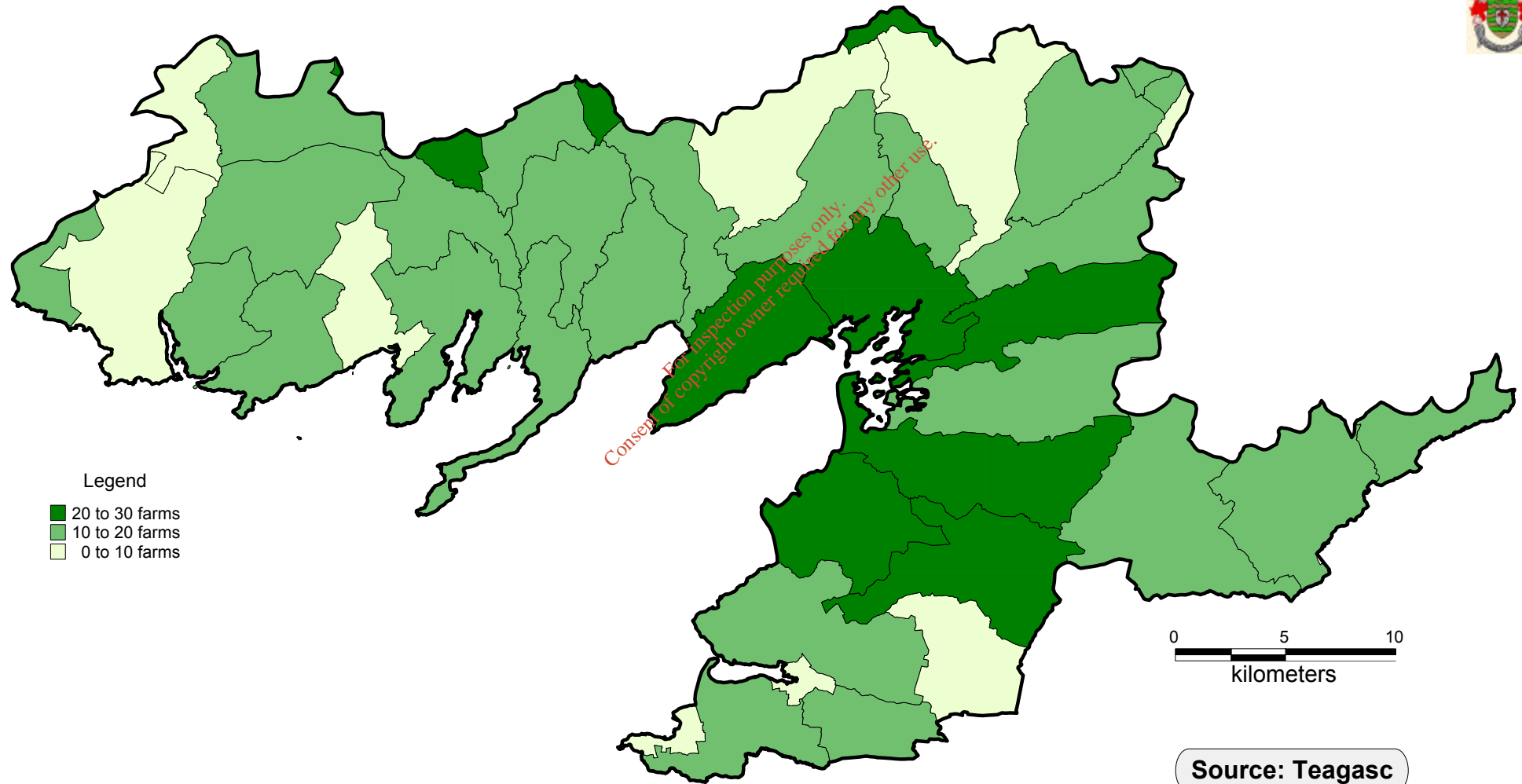
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 27
Total Farms 10-20 hectares per DED
within the Donegal Bay Catchment**



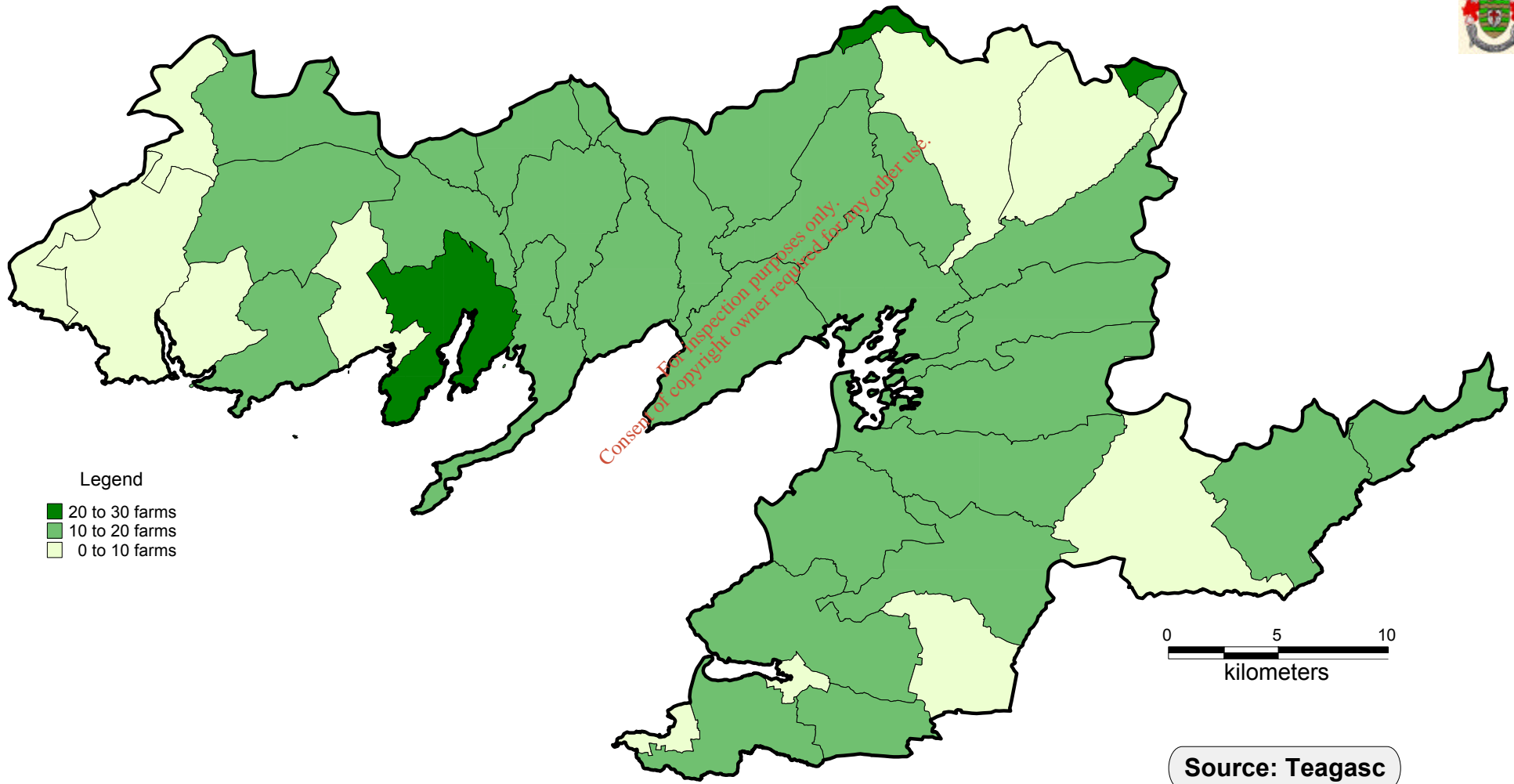
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 28
Total Farms 20 - 30 hectares per DED
within the Donegal Bay Catchment**



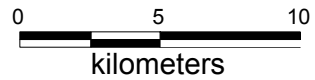
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 29
Total Farms 30 - 50 hectares per DED
within the Donegal Bay Catchment**



Legend

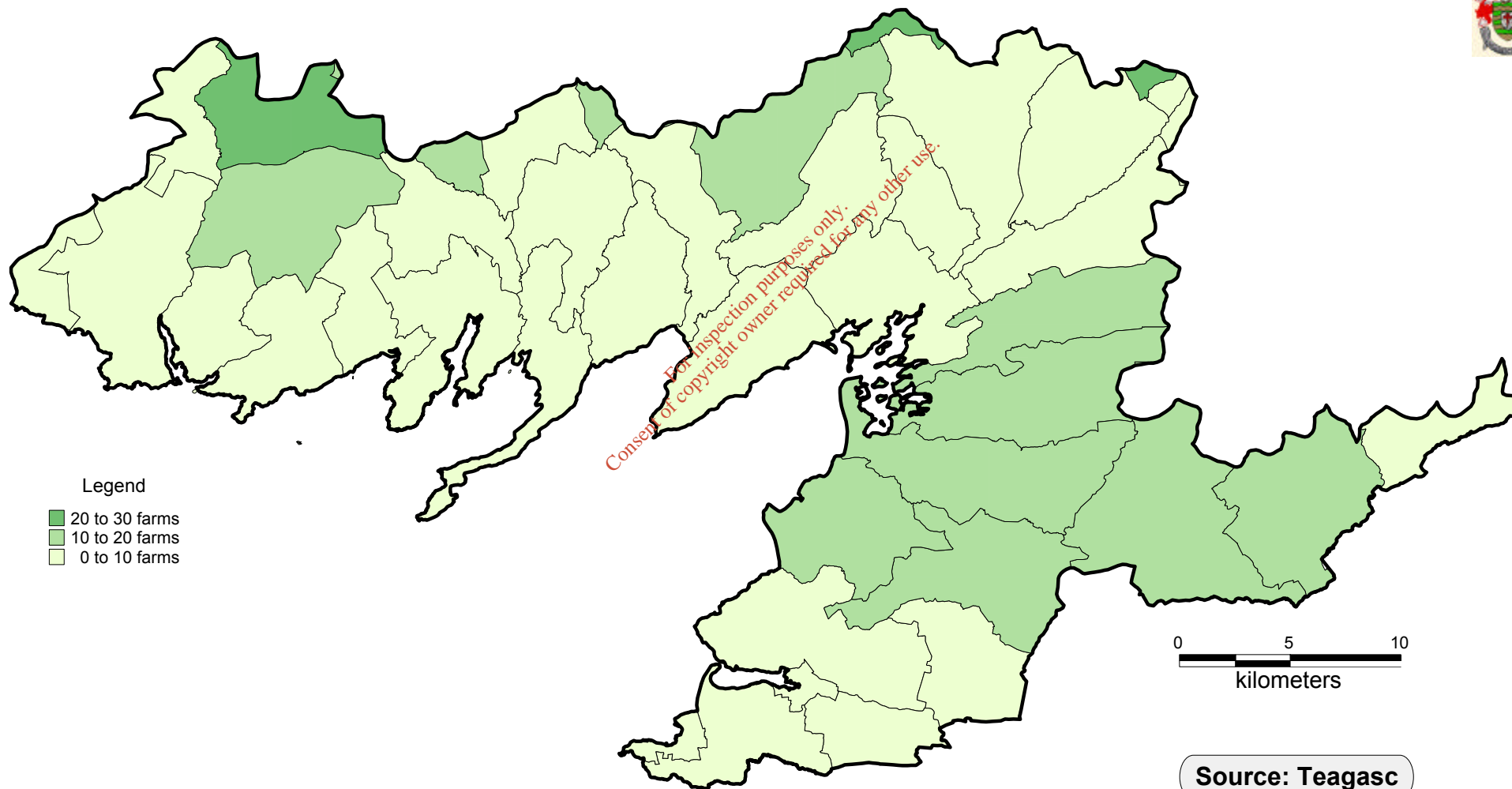
- 20 to 30 farms
- 10 to 20 farms
- 0 to 10 farms



Source: Teagasc

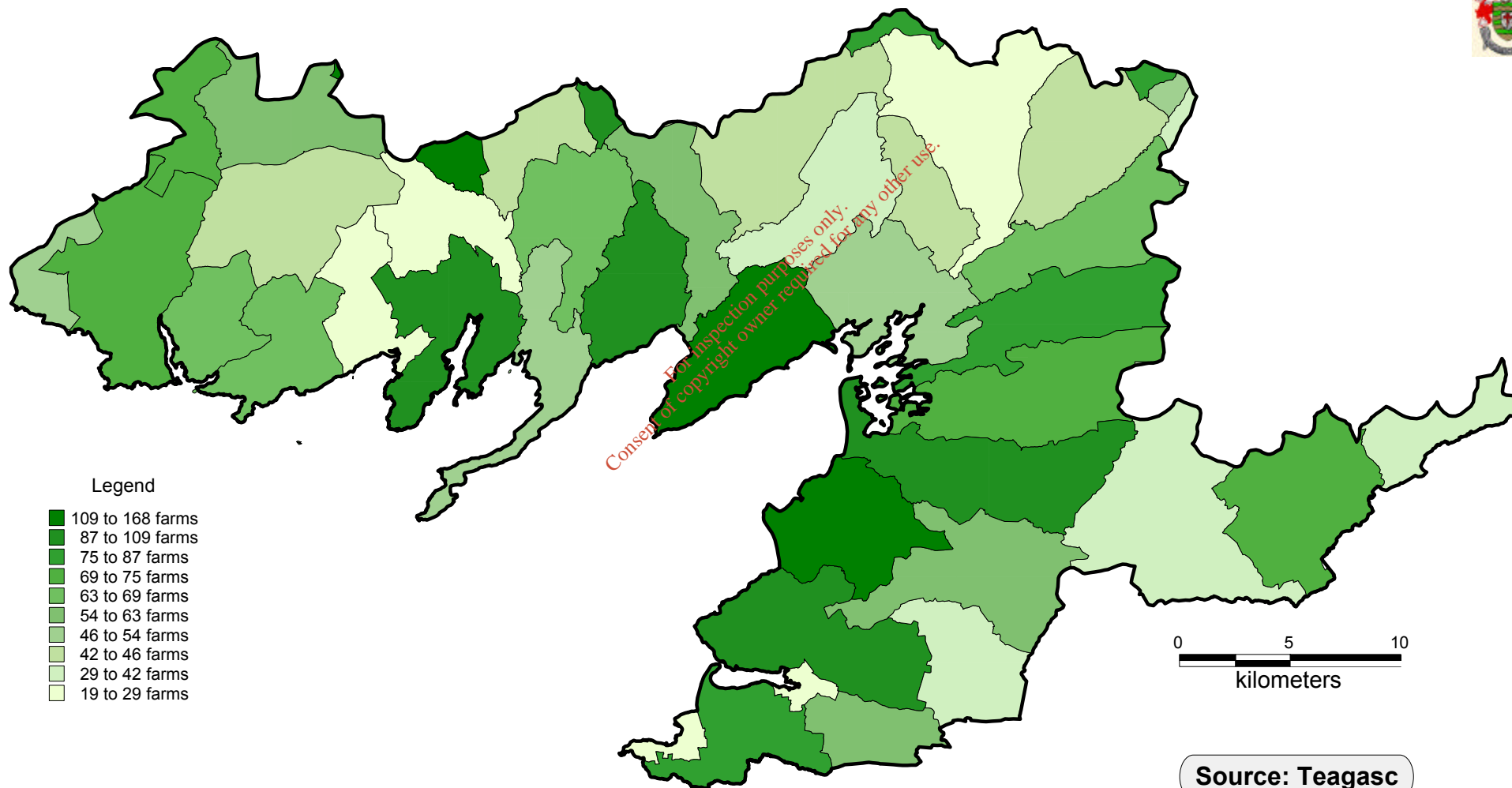
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 30
Total Farms 50 - 100+ hectares per DED
within the Donegal Bay Catchment**



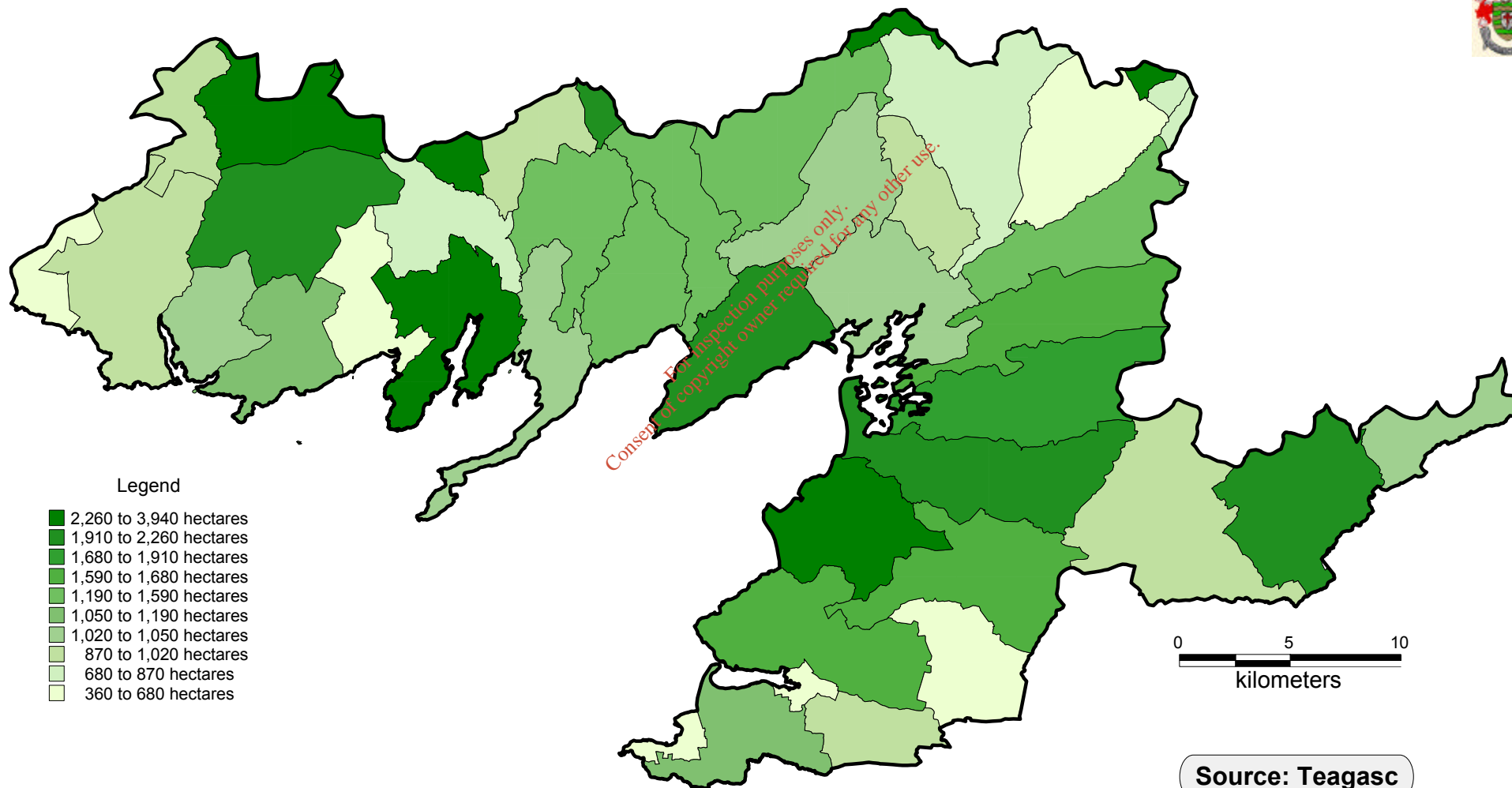
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 31
Total Farms per DED
within the Donegal Bay Catchment**



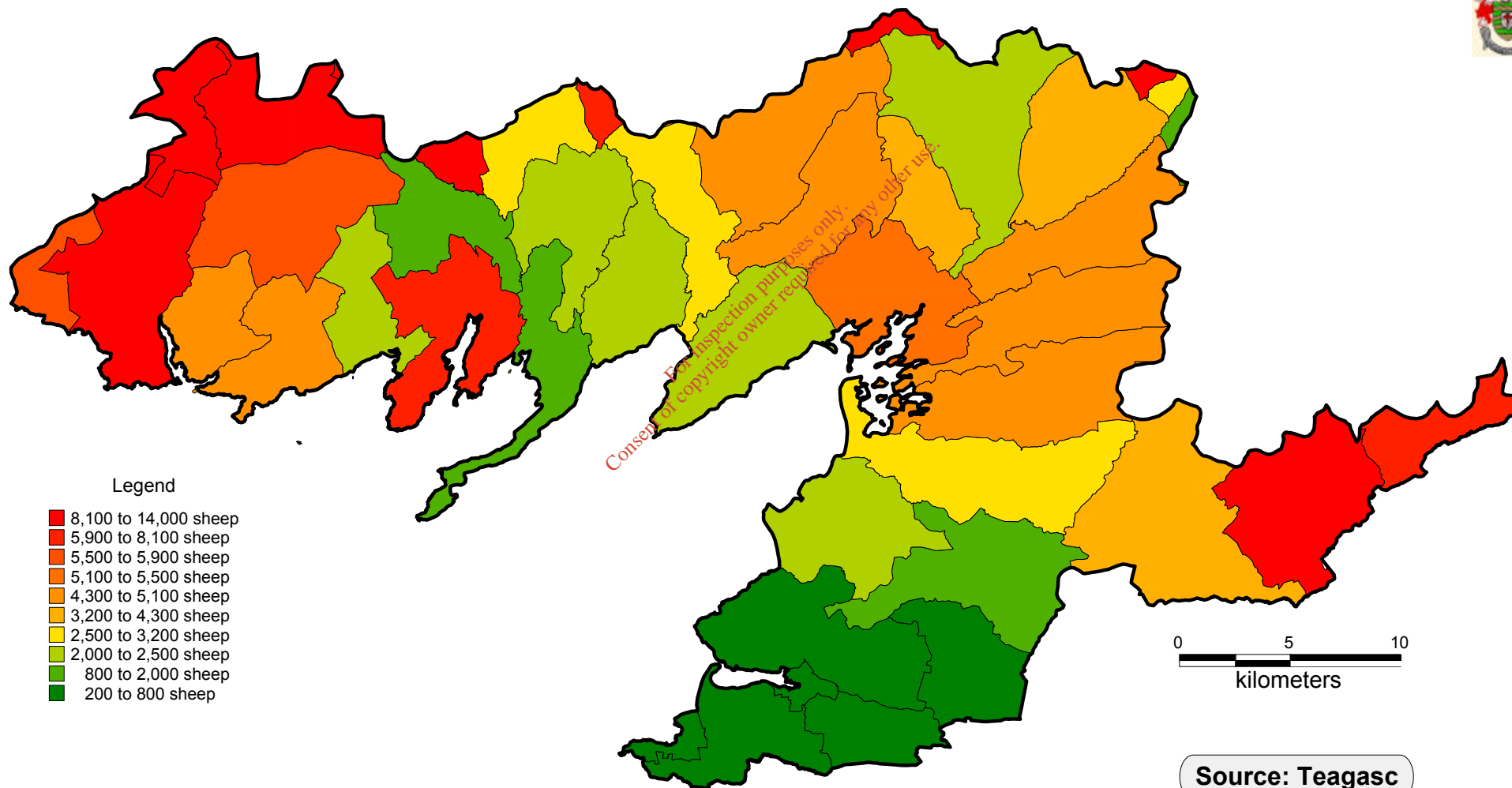
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 32
Areas per DED farmed
within the Donegal Bay Catchment**



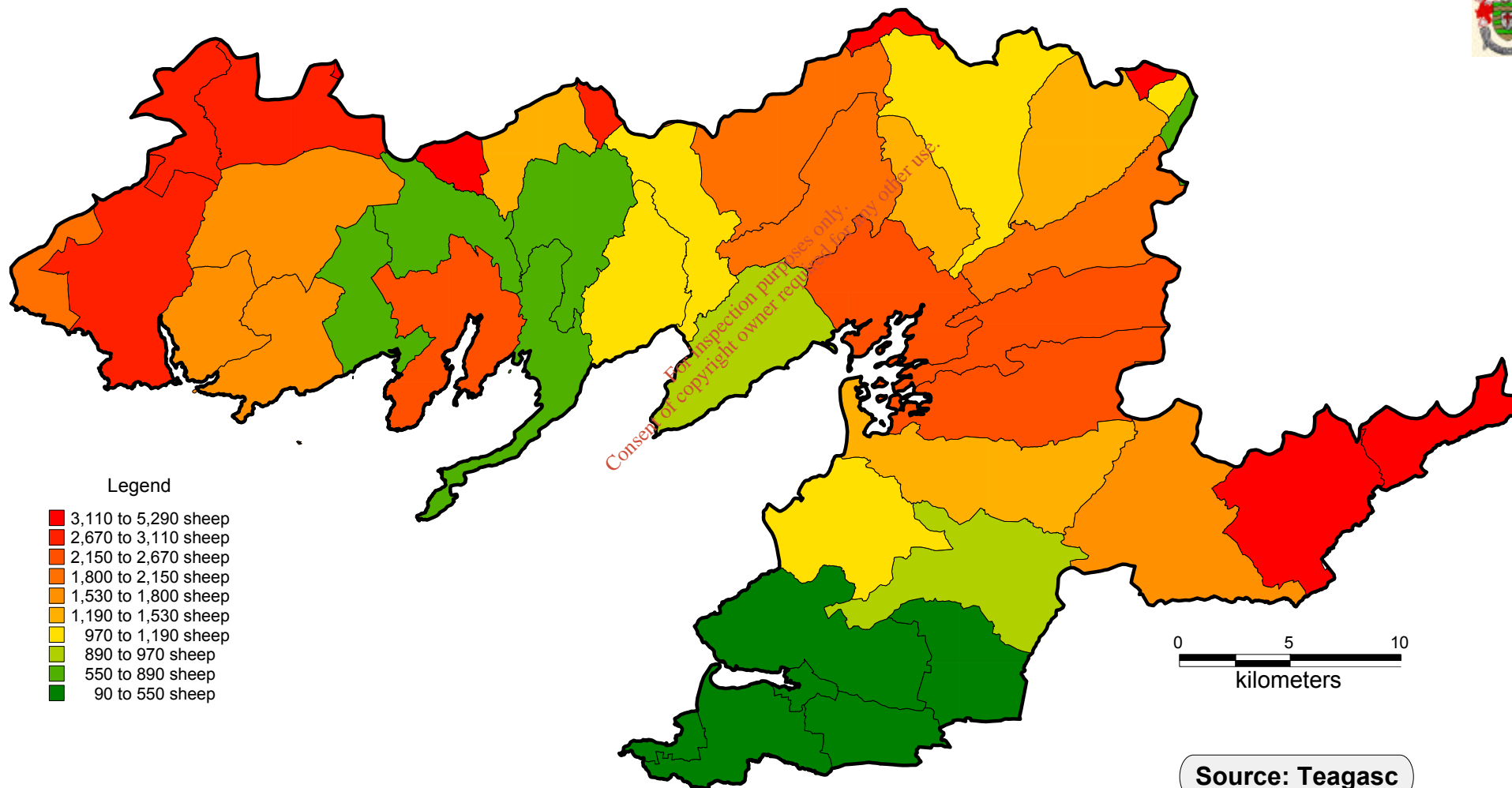
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 33
Total Sheep per DED
within the Donegal Bay Catchment**



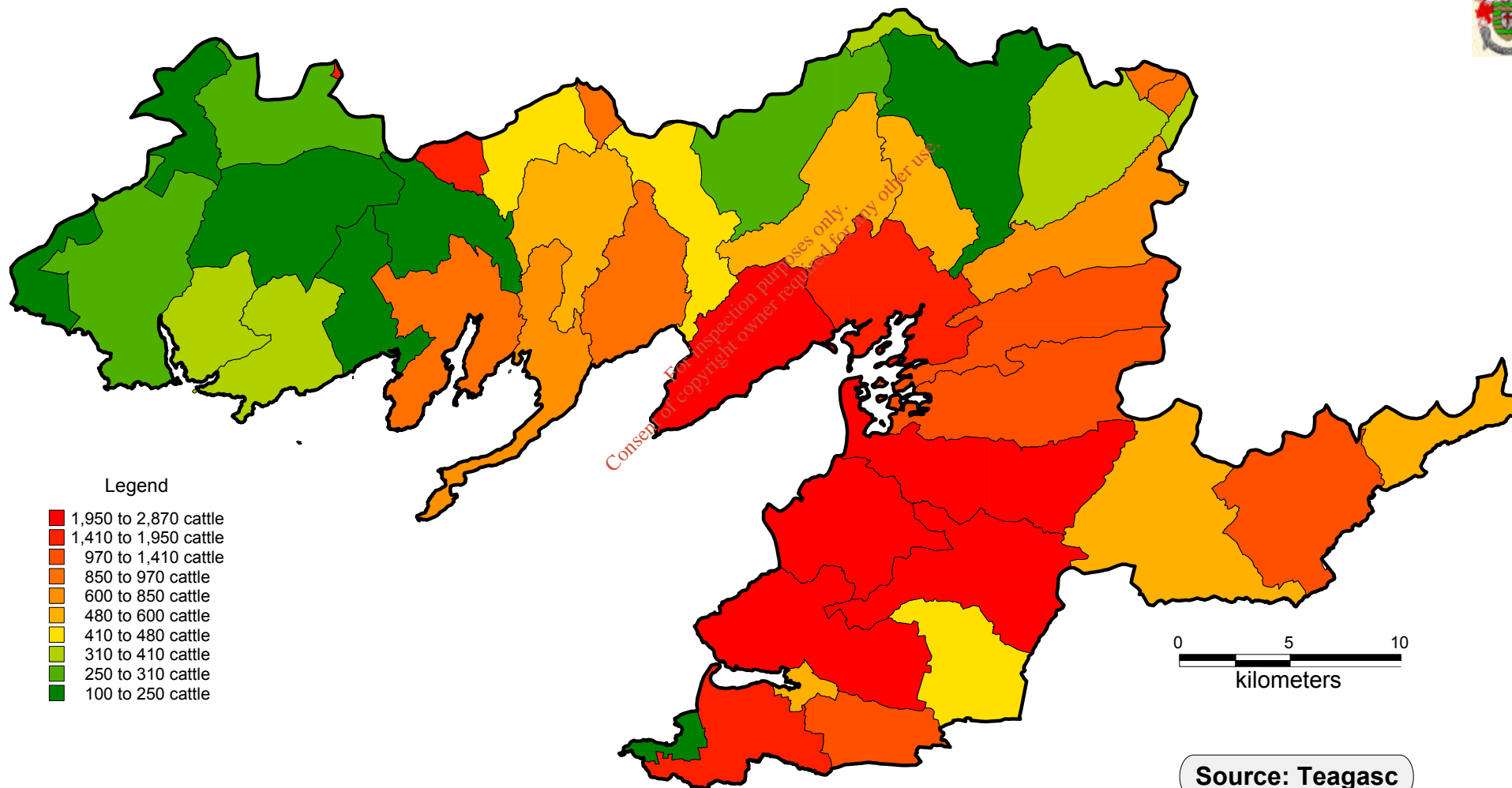
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 34
Other Sheep per DED
within the Donegal Bay Catchment**



**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 35
Total Cattle per DED
within the Donegal Bay Catchment**

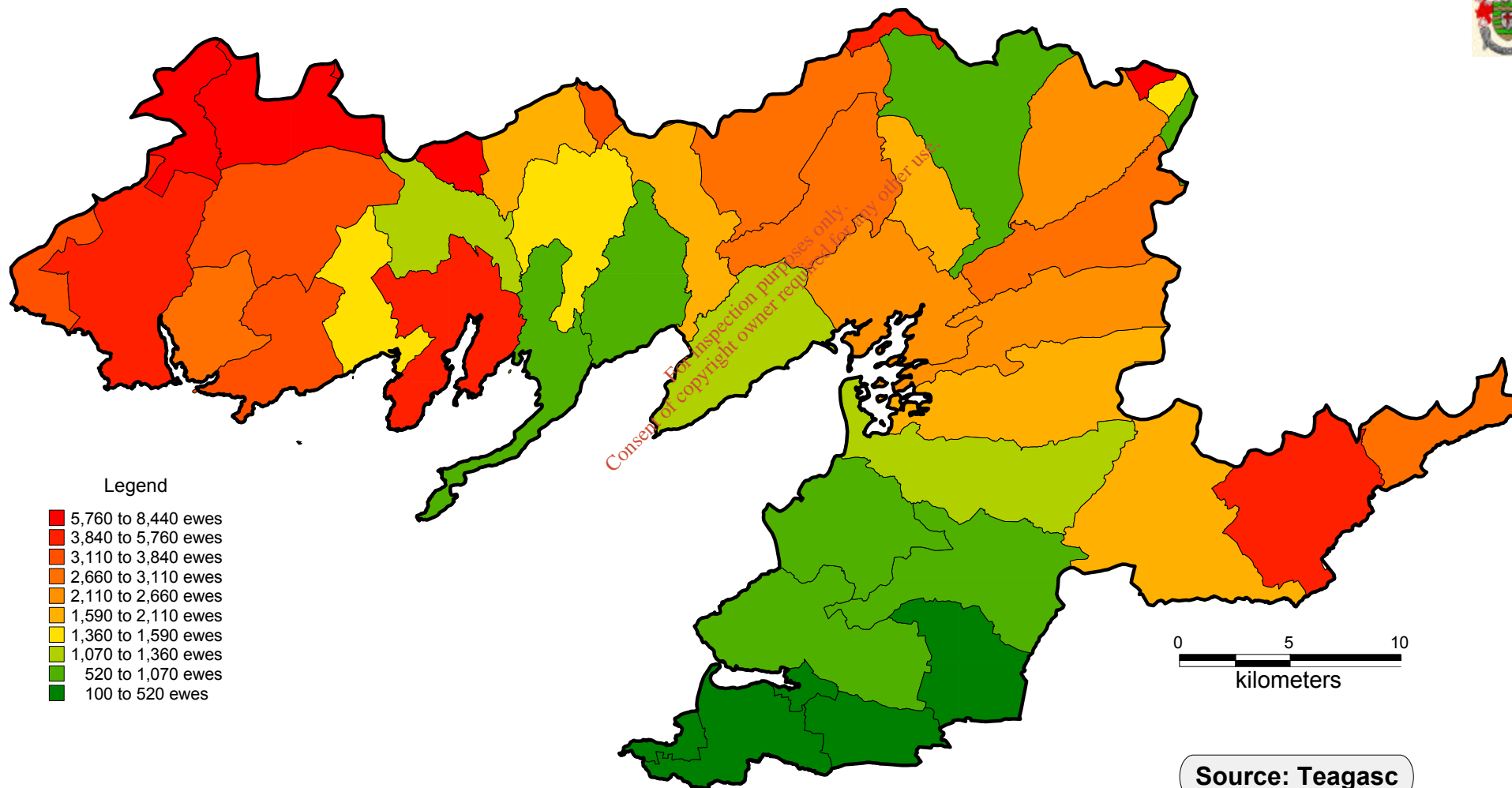


Legend

- 1,950 to 2,870 cattle
- 1,410 to 1,950 cattle
- 970 to 1,410 cattle
- 850 to 970 cattle
- 600 to 850 cattle
- 480 to 600 cattle
- 410 to 480 cattle
- 310 to 410 cattle
- 250 to 310 cattle
- 100 to 250 cattle

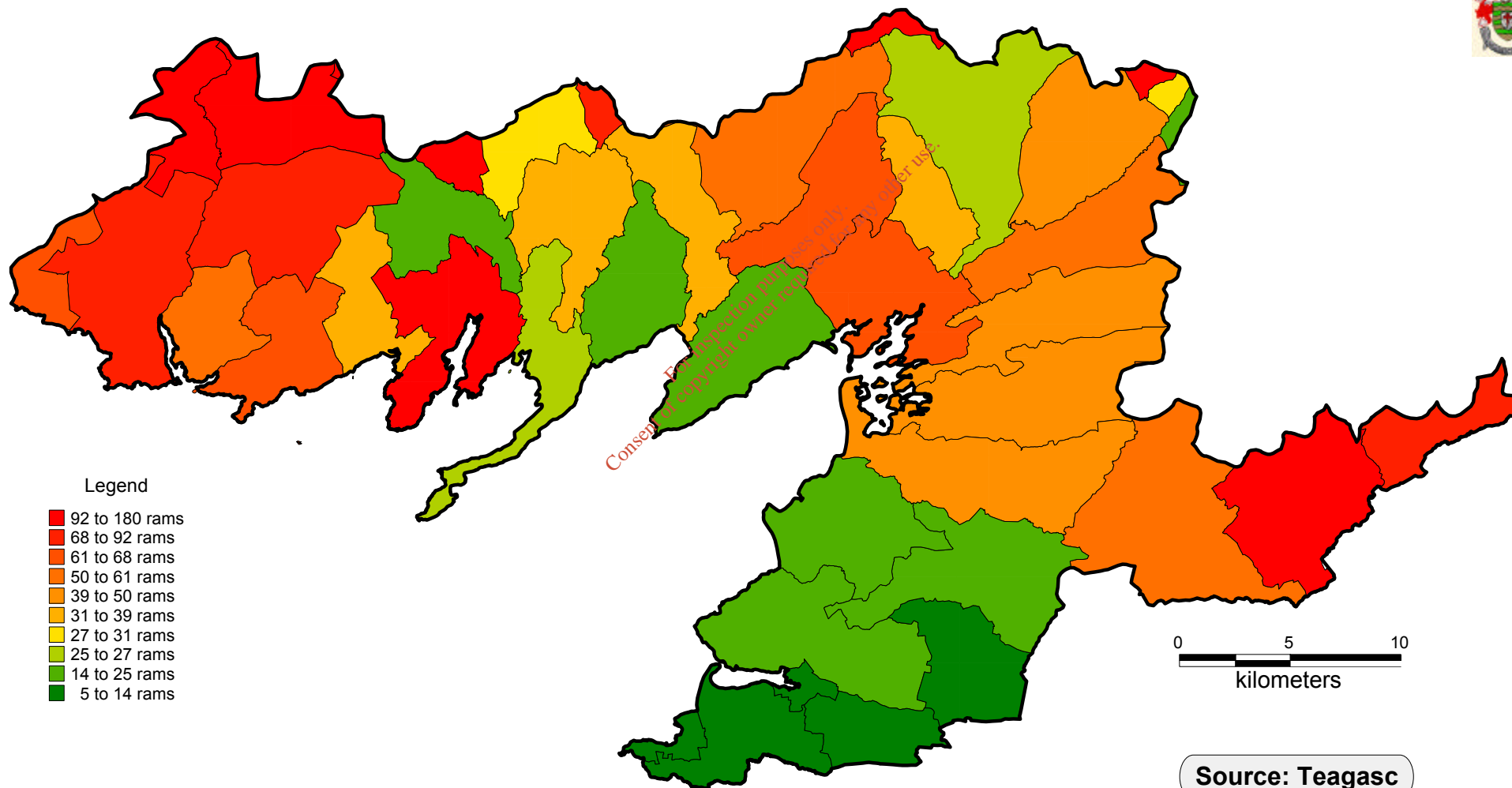
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 36
Total Ewes per DED
within the Donegal Bay Catchment**



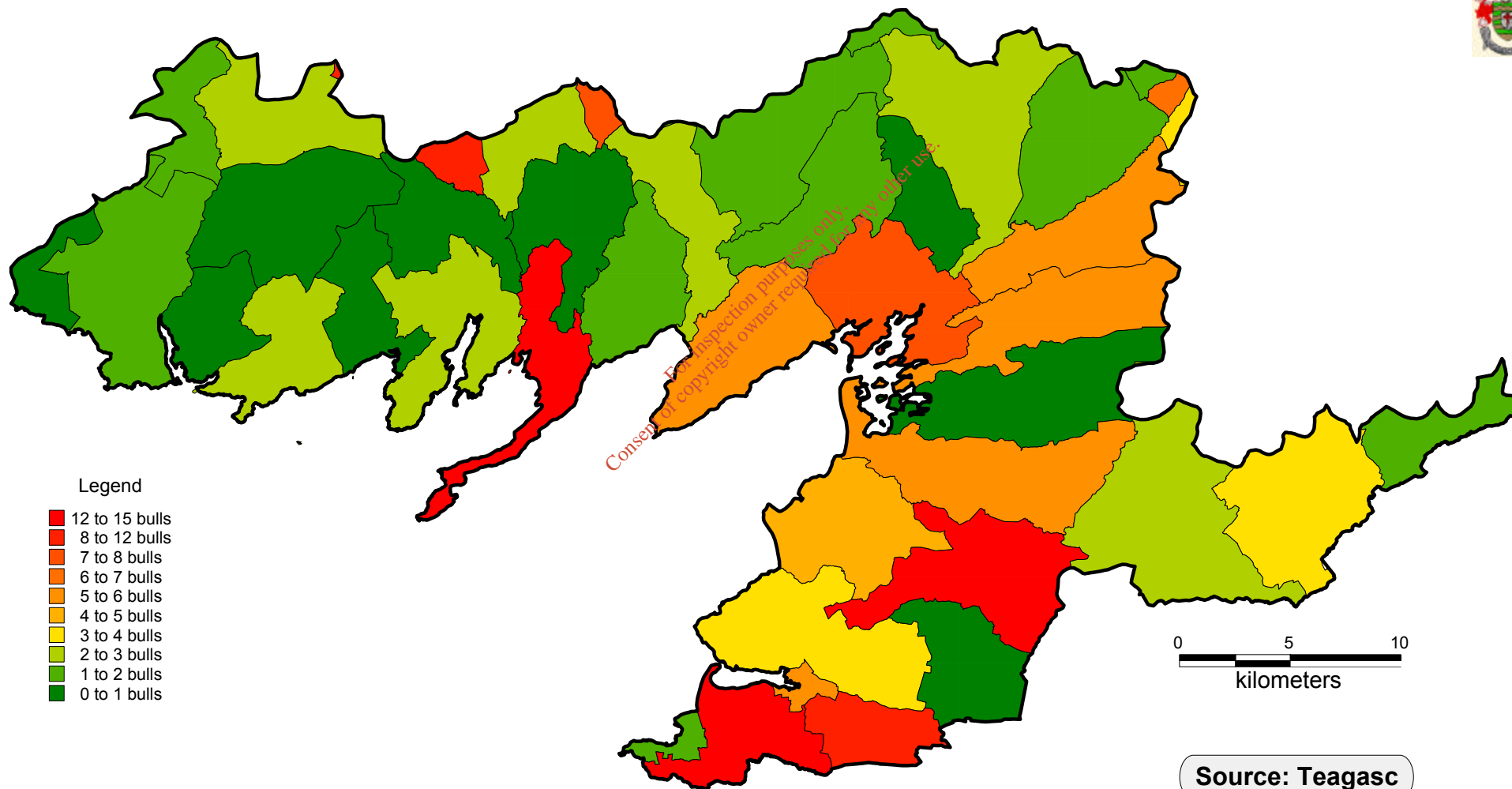
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 37
Total Rams per DED
within the Donegal Bay Catchment**



**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 38
Total Bulls per DED
within the Donegal Bay Catchment**



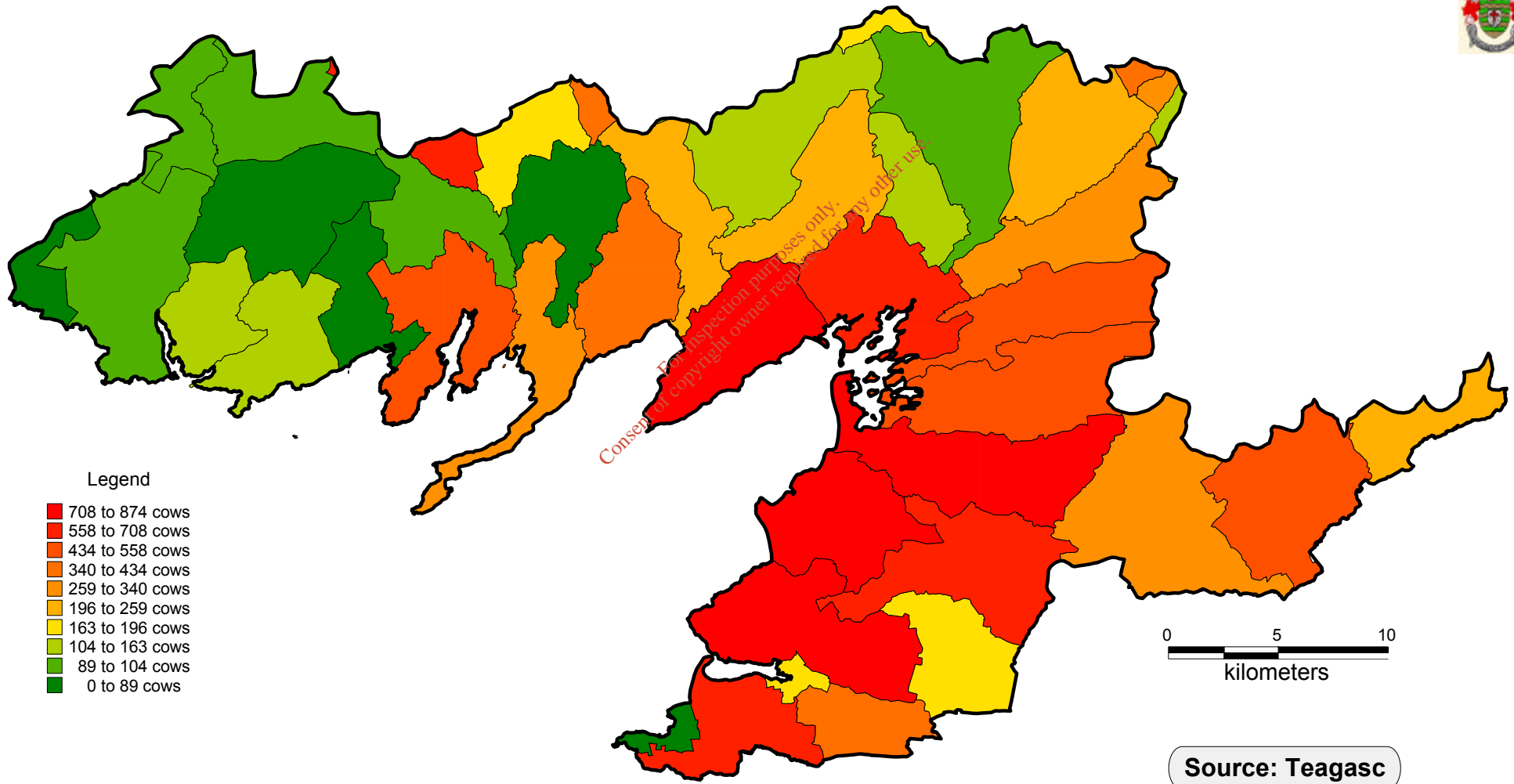
Legend

- 12 to 15 bulls
- 8 to 12 bulls
- 7 to 8 bulls
- 6 to 7 bulls
- 5 to 6 bulls
- 4 to 5 bulls
- 3 to 4 bulls
- 2 to 3 bulls
- 1 to 2 bulls
- 0 to 1 bulls

Source: Teagasc

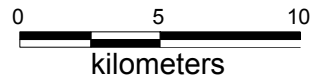
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 39
Total Cows per DED
within the Donegal Bay Catchment**



Legend

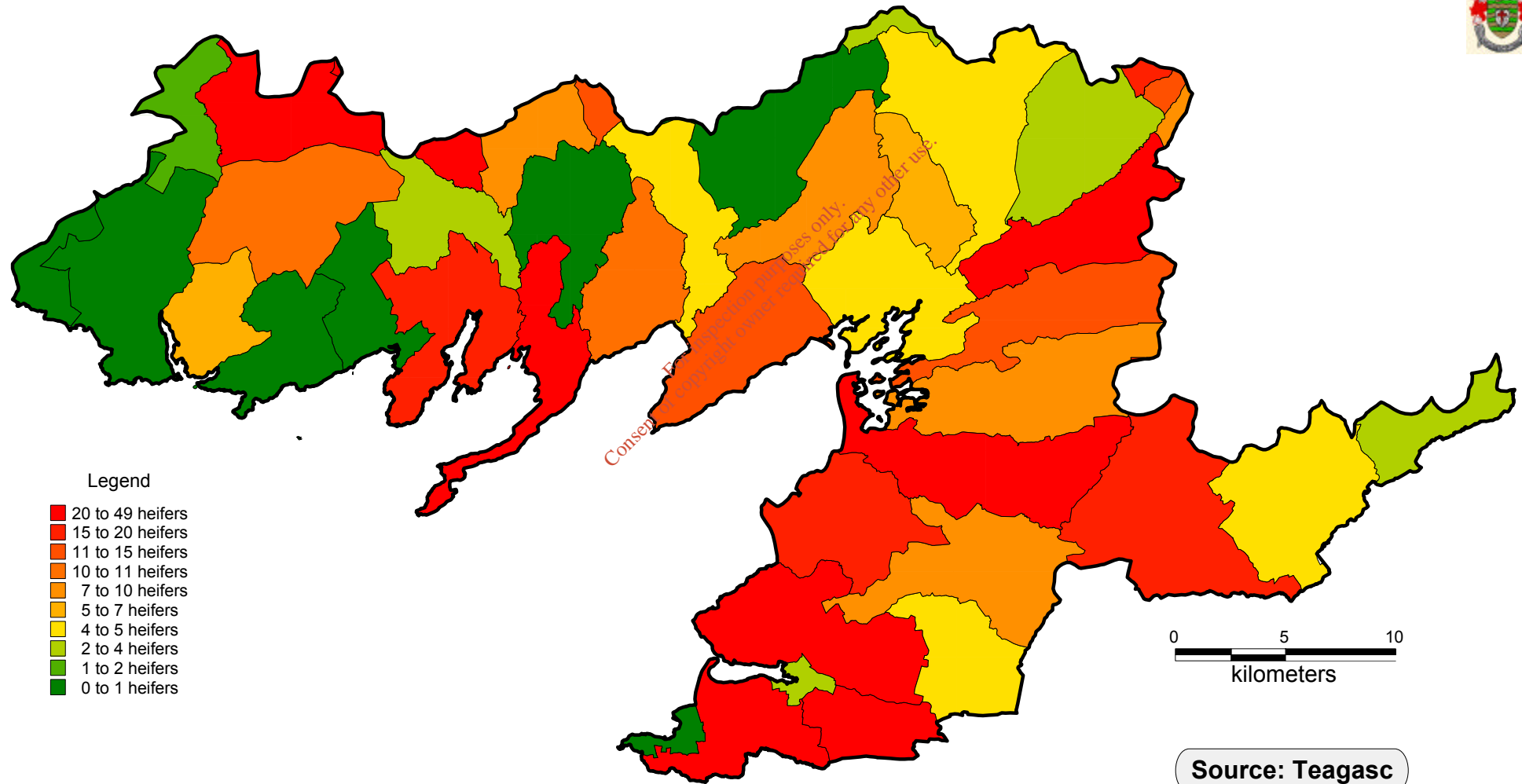
- 708 to 874 cows
- 558 to 708 cows
- 434 to 558 cows
- 340 to 434 cows
- 259 to 340 cows
- 196 to 259 cows
- 163 to 196 cows
- 104 to 163 cows
- 89 to 104 cows
- 0 to 89 cows



Source: Teagasc

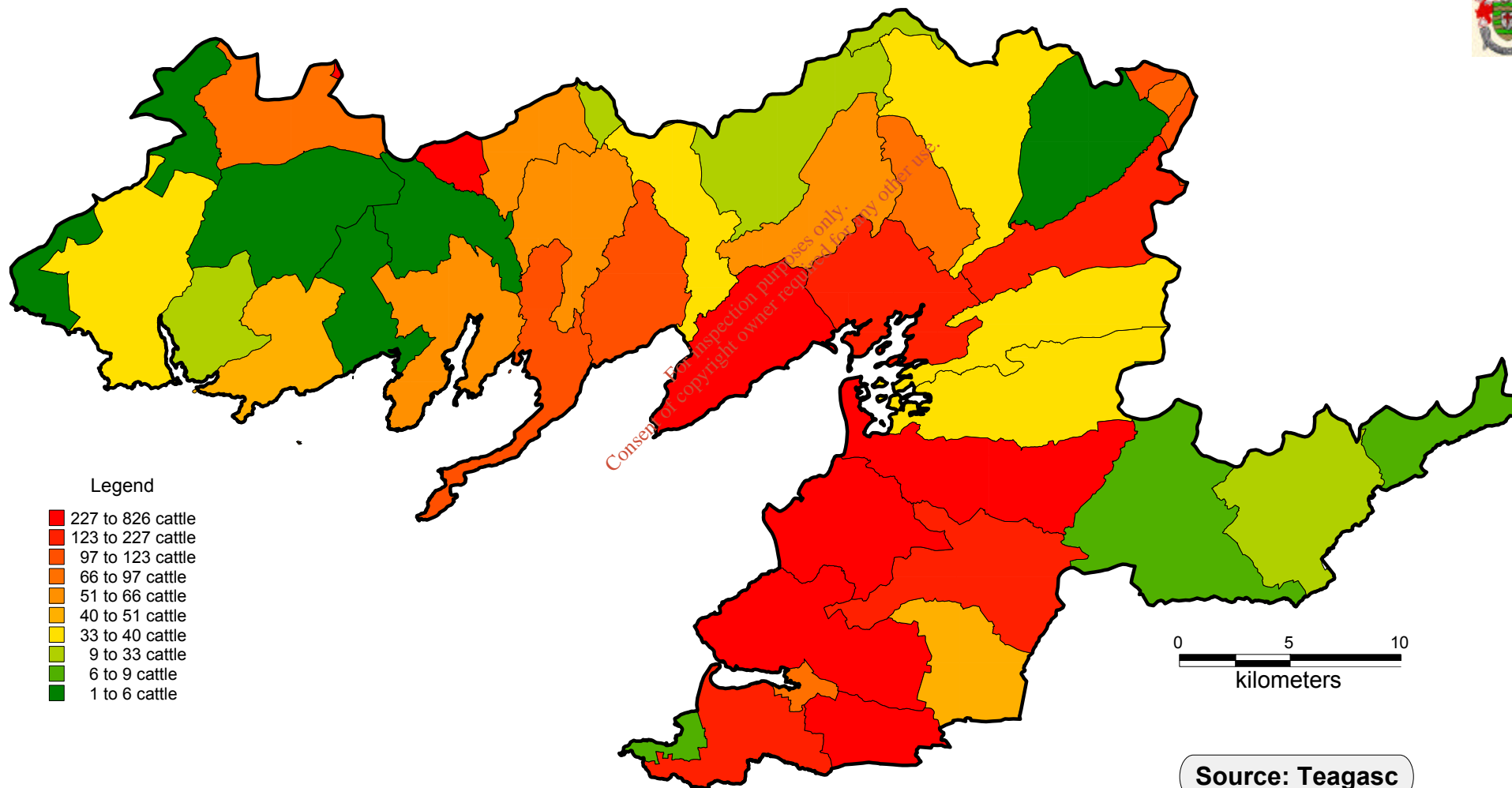
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 40
Total Heifers per DED
within the Donegal Bay Catchment**



**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 41
Total Cattle 2 years+ per DED
within the Donegal Bay Catchment**

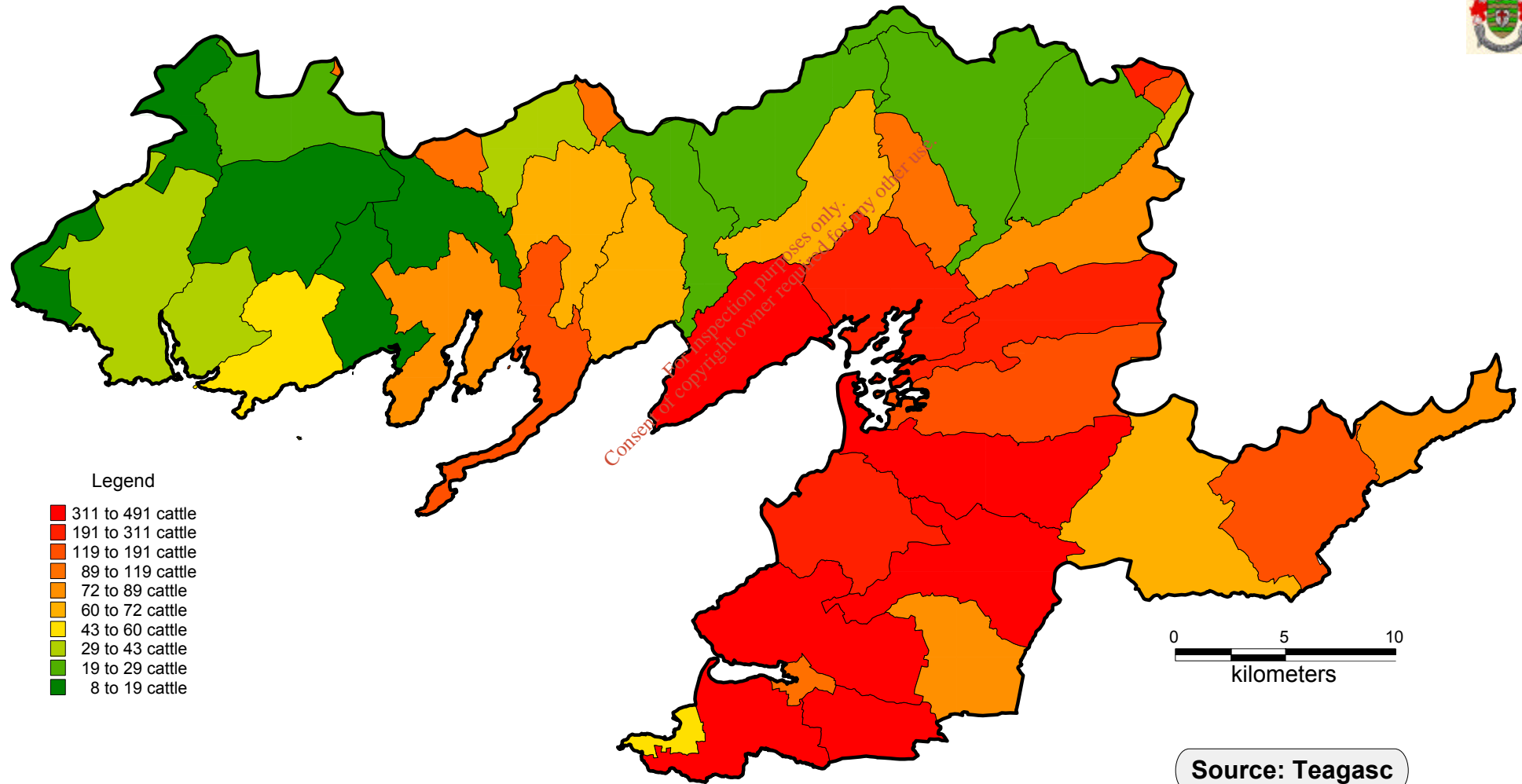


Legend

- 227 to 826 cattle
- 123 to 227 cattle
- 97 to 123 cattle
- 66 to 97 cattle
- 51 to 66 cattle
- 40 to 51 cattle
- 33 to 40 cattle
- 9 to 33 cattle
- 6 to 9 cattle
- 1 to 6 cattle

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 42
Total Cattle 1 - 2 years per DED
within the Donegal Bay Catchment**



Legend

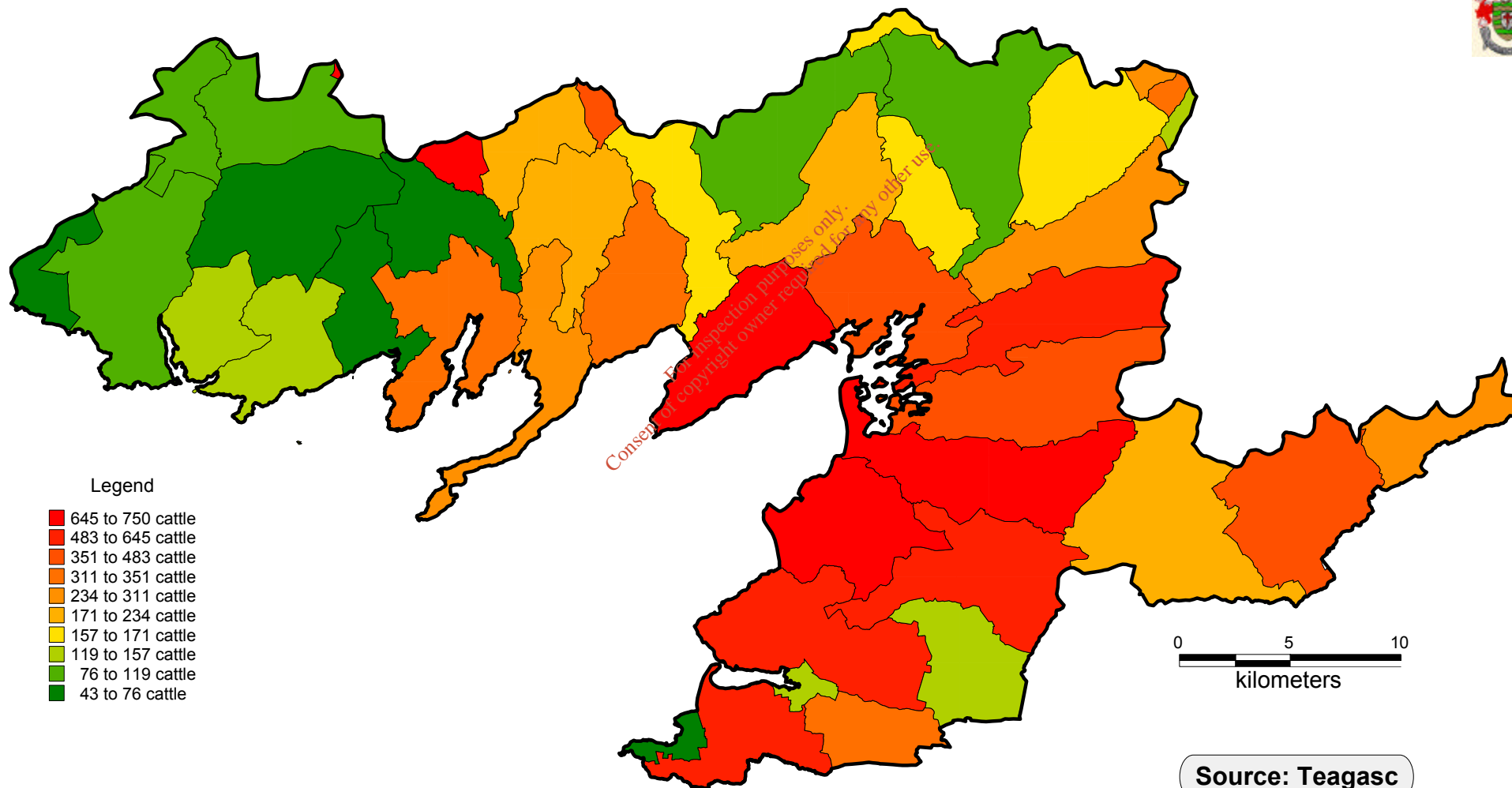
- 311 to 491 cattle
- 191 to 311 cattle
- 119 to 191 cattle
- 89 to 119 cattle
- 72 to 89 cattle
- 60 to 72 cattle
- 43 to 60 cattle
- 29 to 43 cattle
- 19 to 29 cattle
- 8 to 19 cattle

0 5 10
kilometers

Source: Teagasc

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 43
Total Cattle <1 year per DED
within the Donegal Bay Catchment**



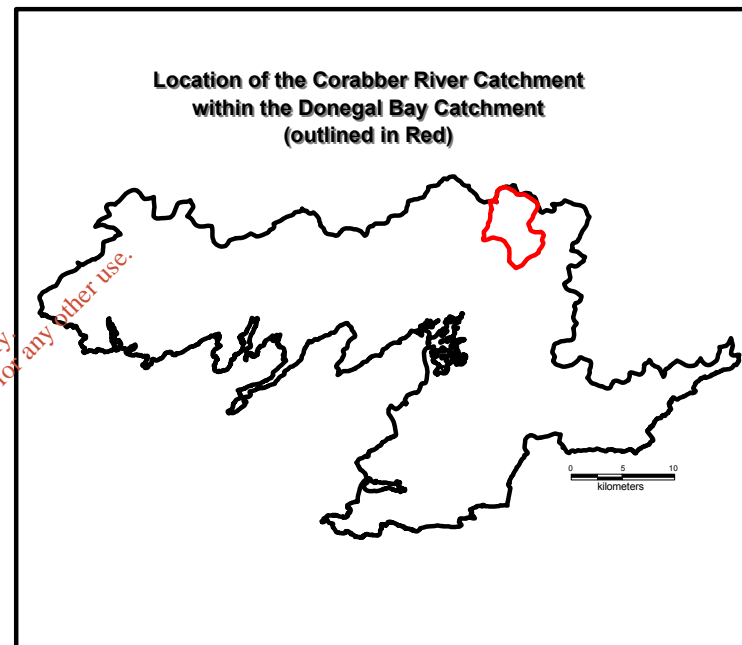
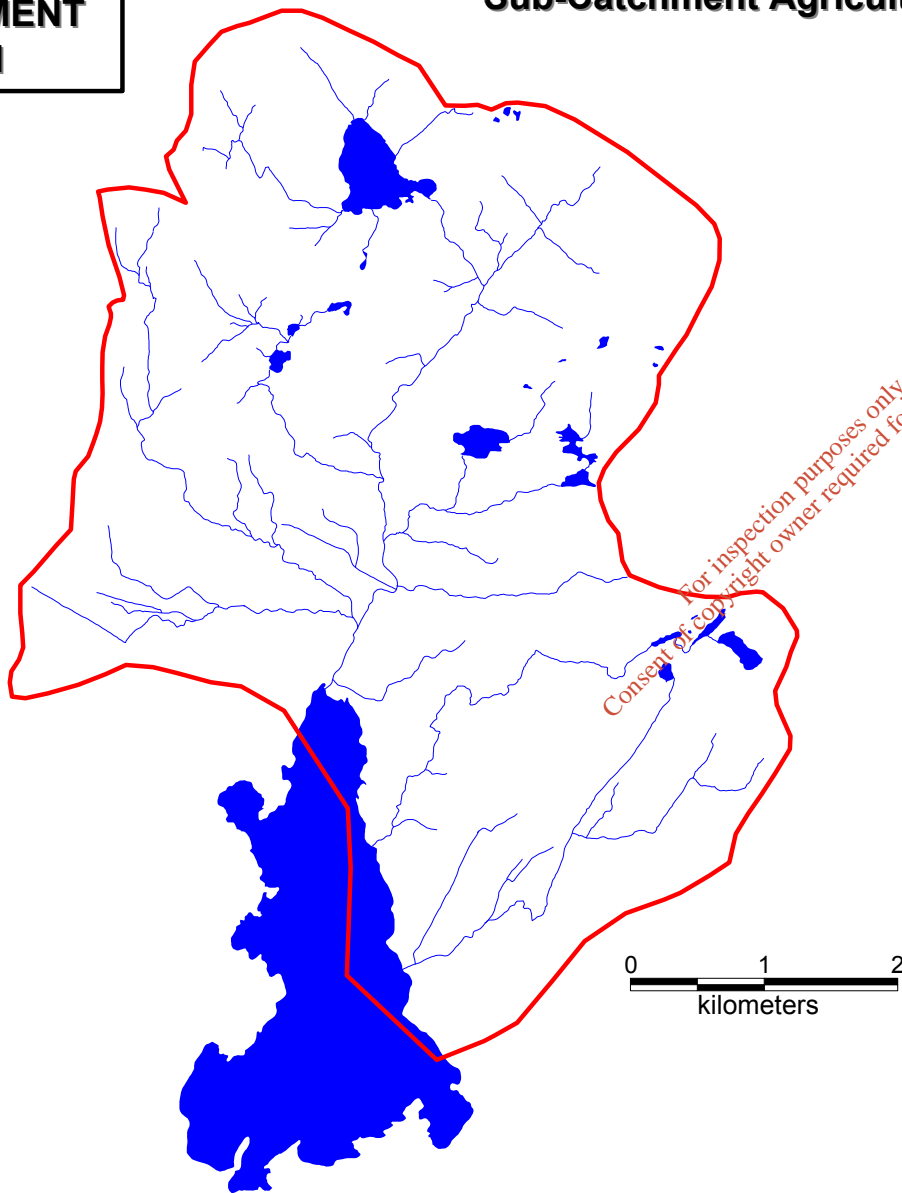
Legend

- 645 to 750 cattle
- 483 to 645 cattle
- 351 to 483 cattle
- 311 to 351 cattle
- 234 to 311 cattle
- 171 to 234 cattle
- 157 to 171 cattle
- 119 to 157 cattle
- 76 to 119 cattle
- 43 to 76 cattle

Source: Teagasc

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

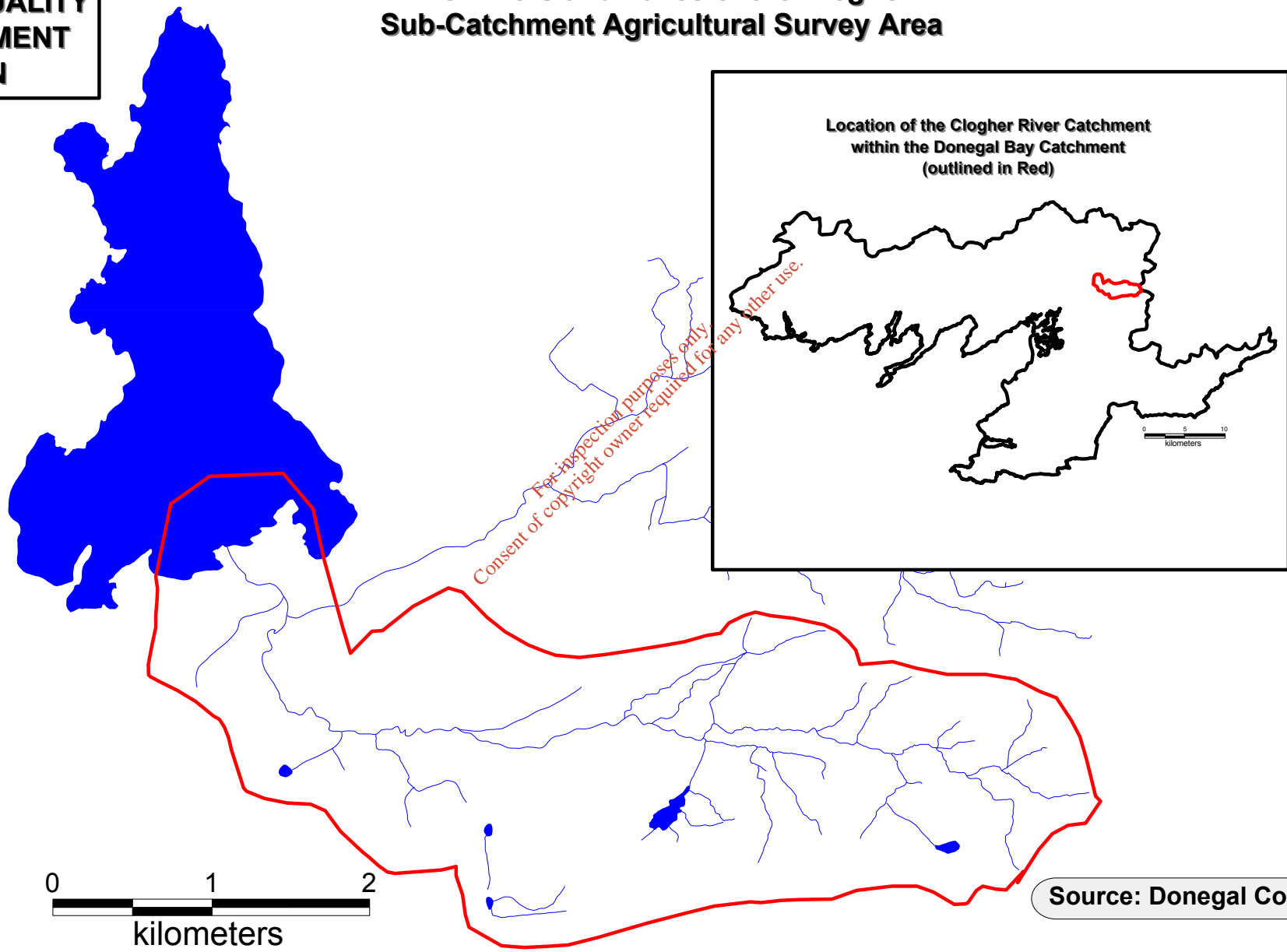
**Map 44
The Rivers and Lakes of the Corabber
Sub-Catchment Agricultural Survey Area**



Source: Donegal County Council

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

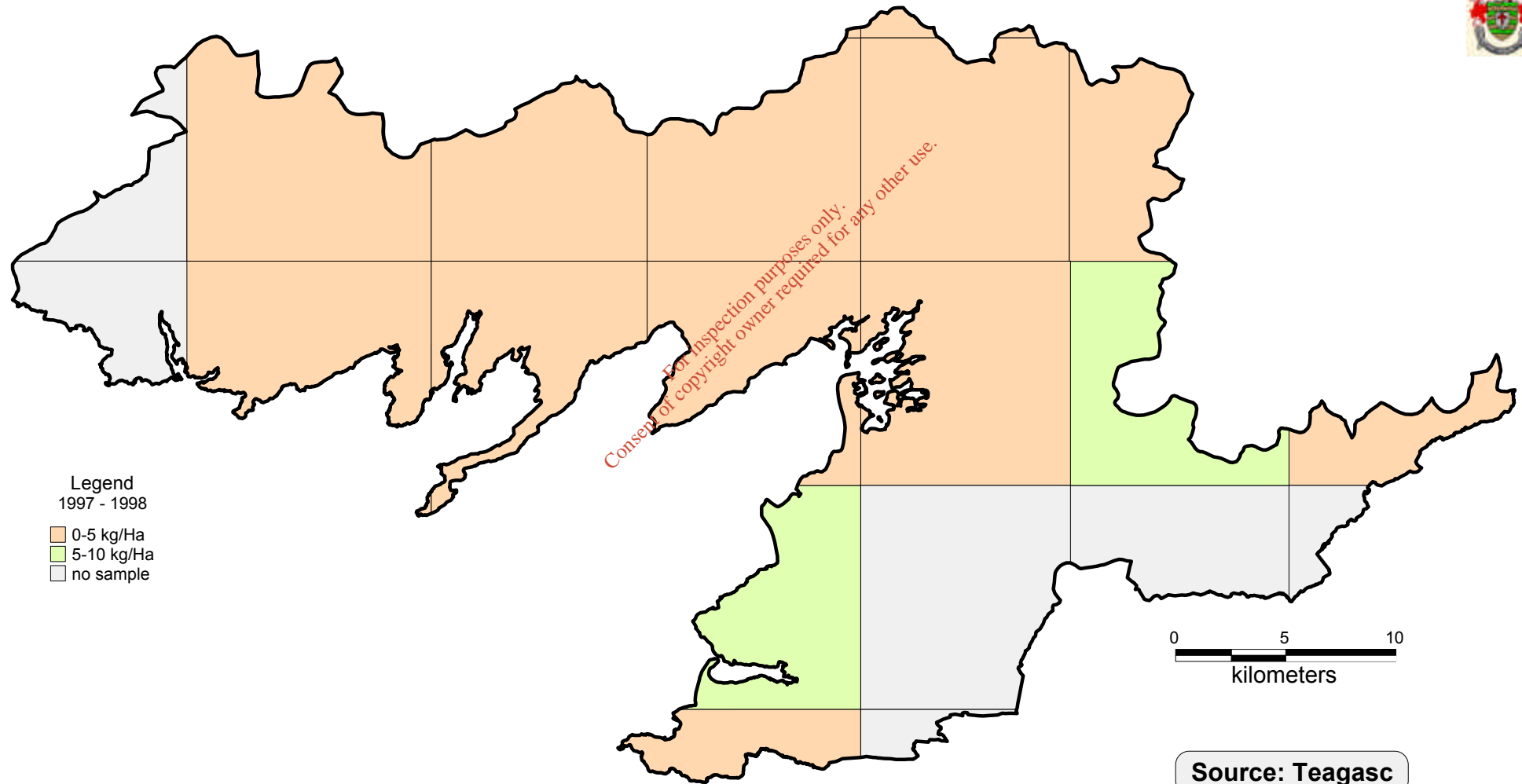
**Map 45
The Rivers and Lakes of the Clogher
Sub-Catchment Agricultural Survey Area**



Source: Donegal County Council

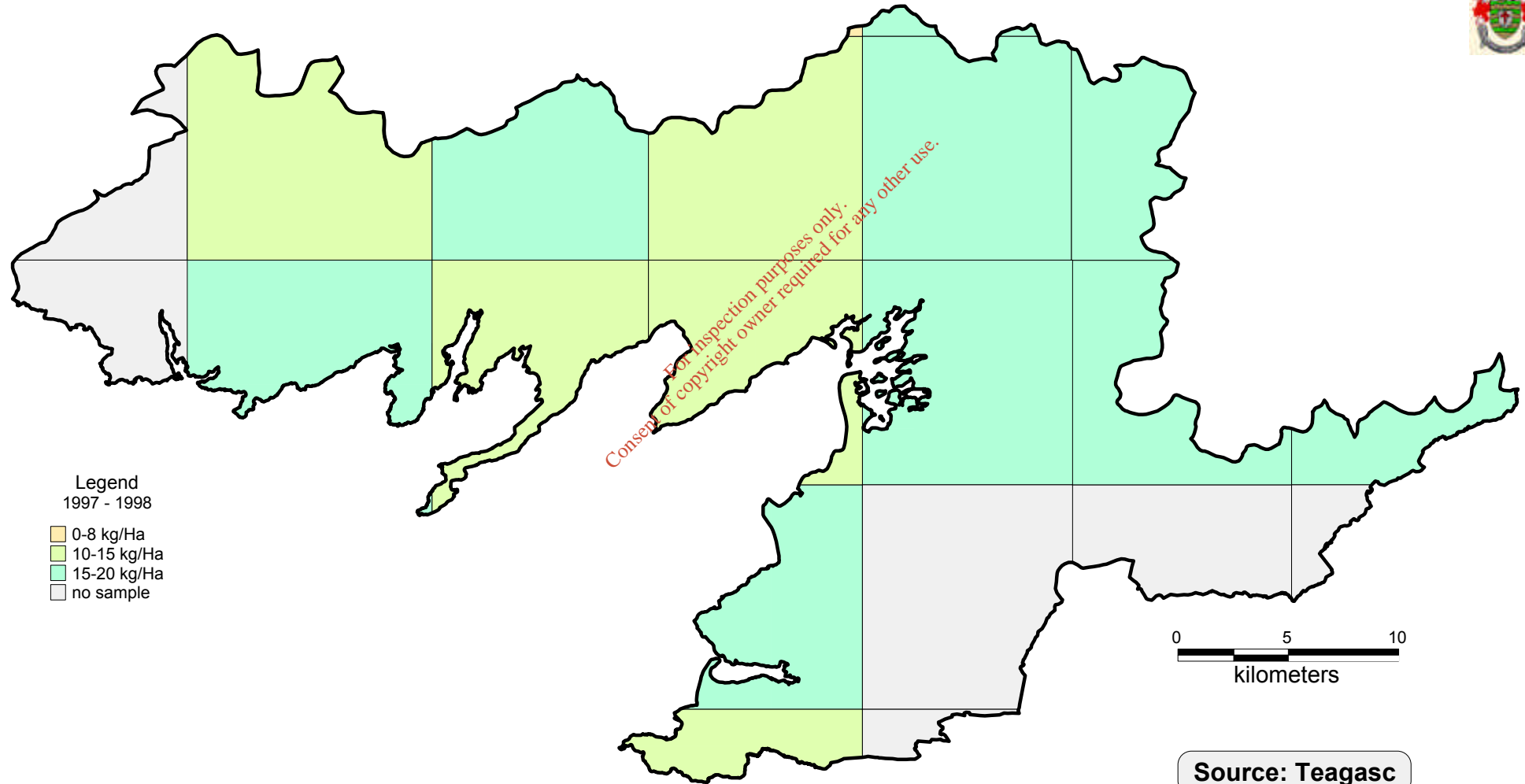
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 46
Phosphorous from Organic Manure
within the Donegal Bay Catchment**



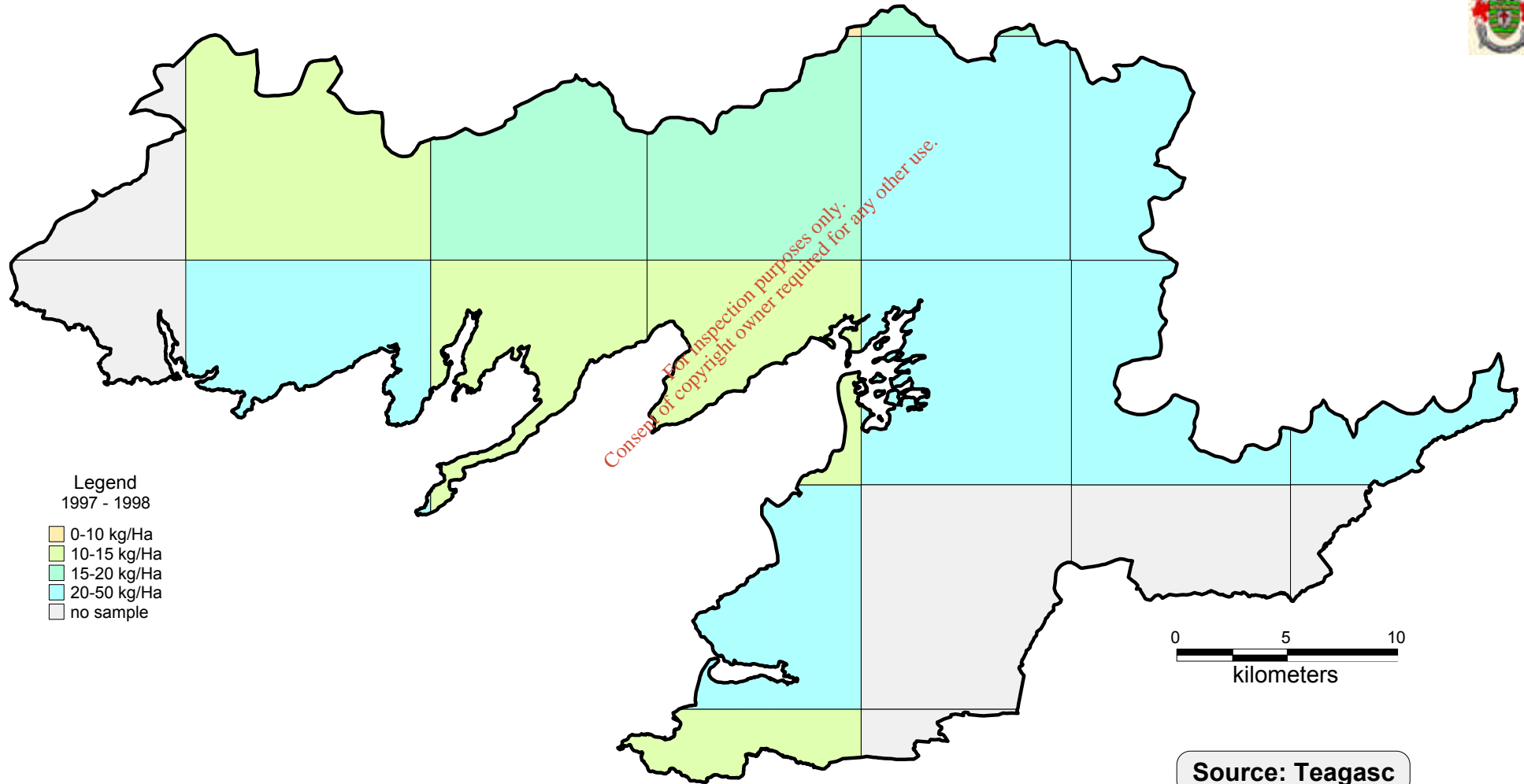
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 47
Phosphorous from Artificial Fertilisers
within the Donegal Bay Catchment**



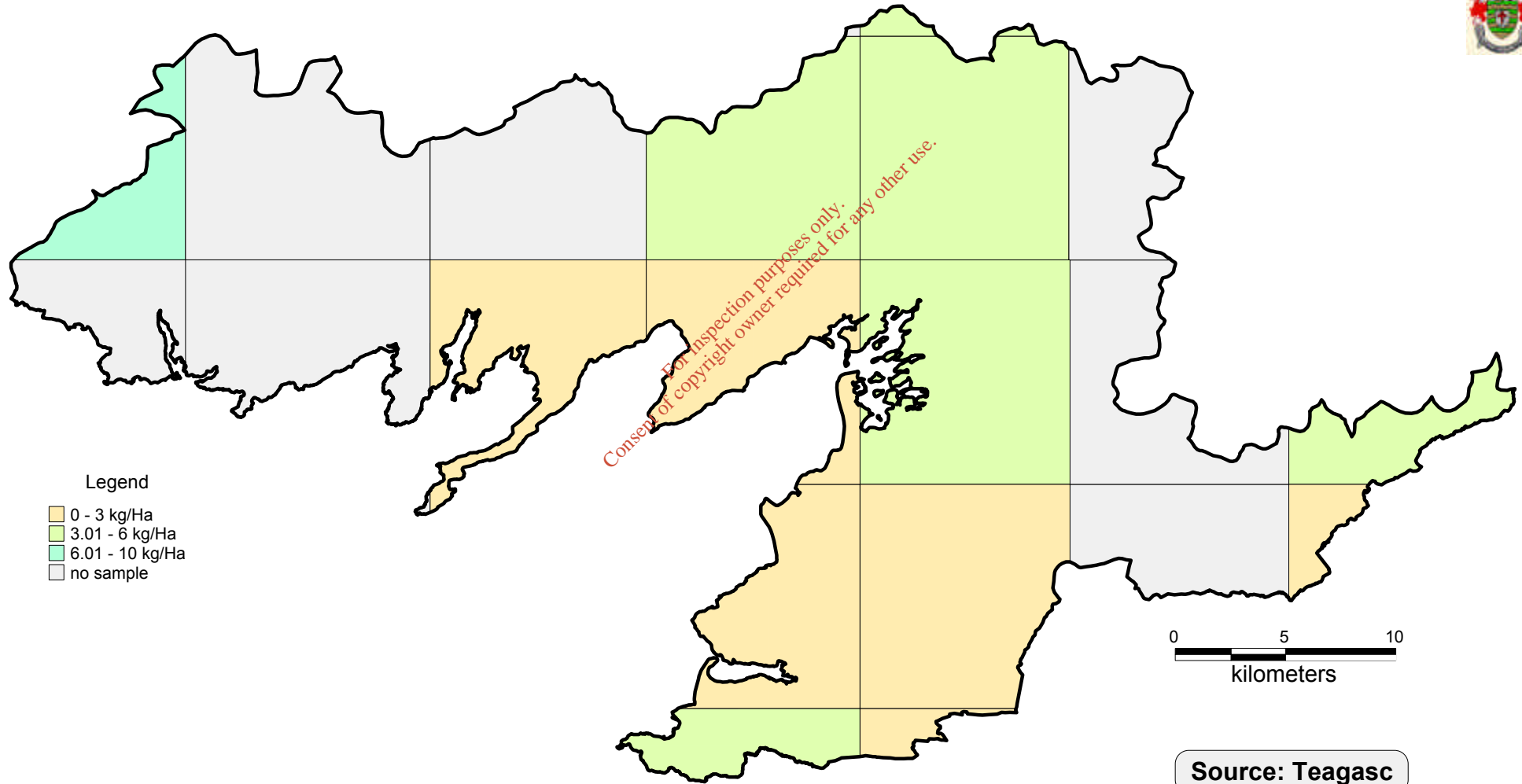
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 48
Phosphorous from both Agricultural & Artificial Fertilisers
within the Donegal Bay Catchment**



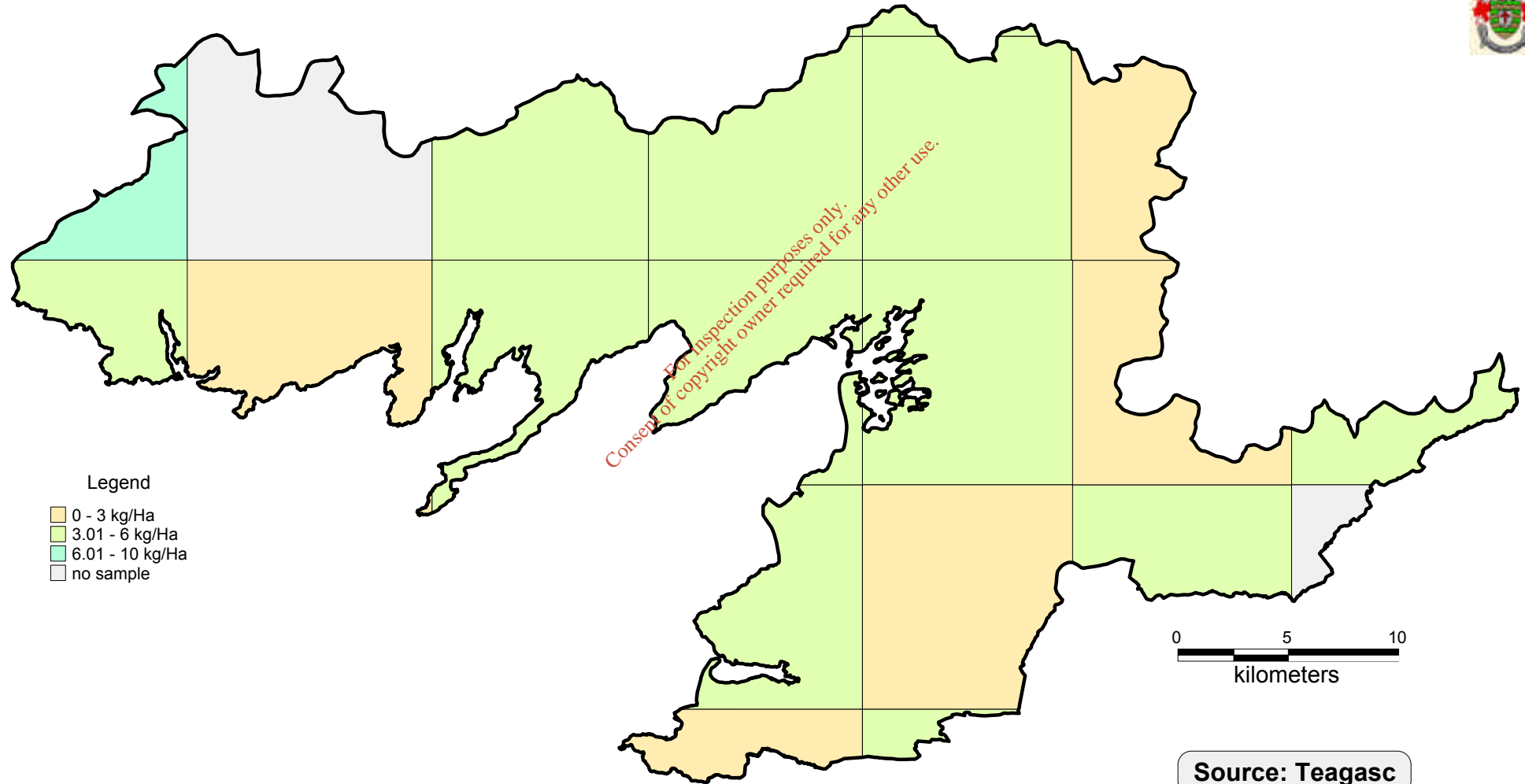
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 49
Mean Phosphorous Levels in Soils (1989 - 1992)
within the Donegal Bay Catchment**



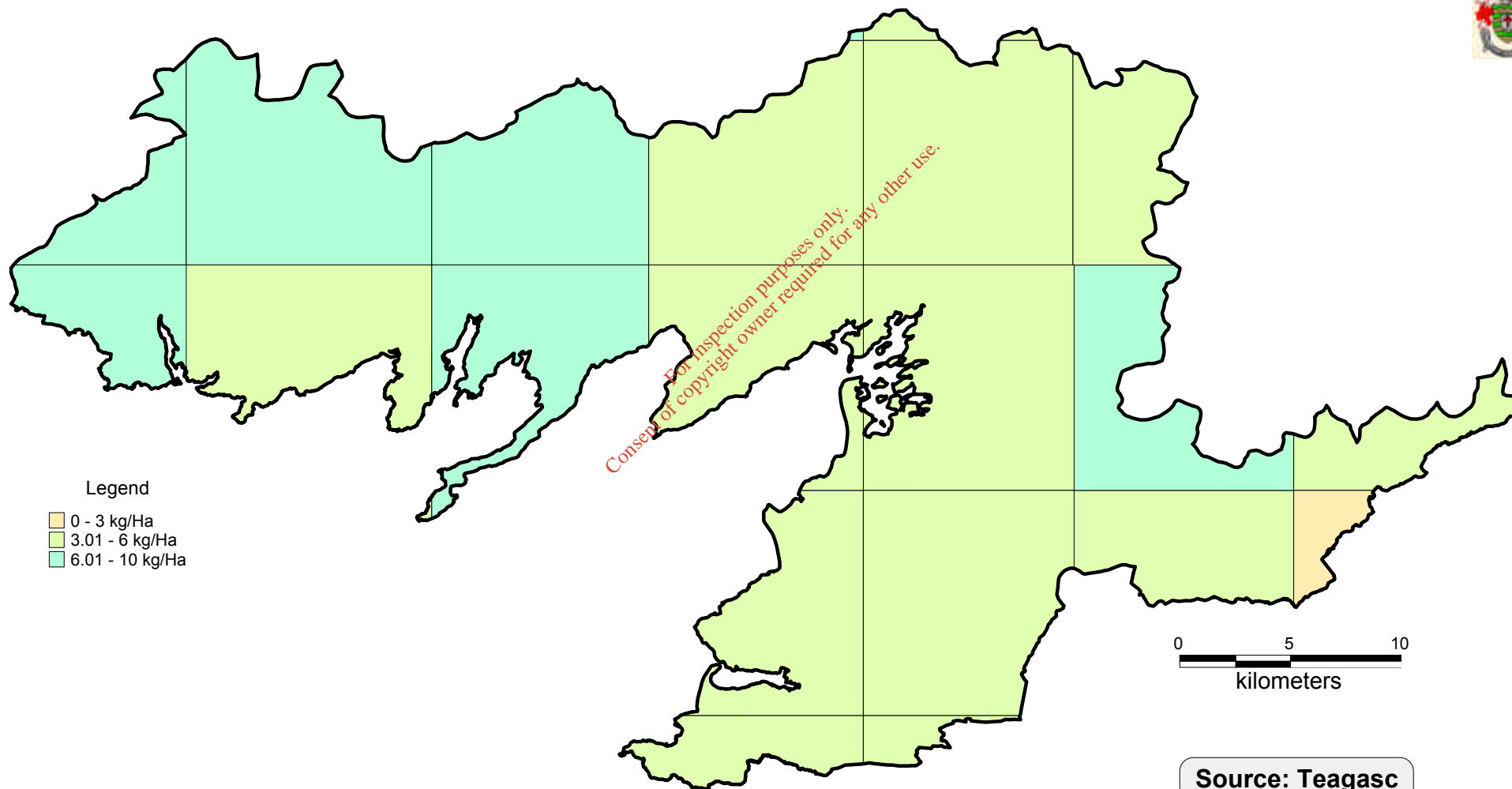
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 50
Mean Phosphorous Levels in Soils (1993 - 1995)
within the Donegal Bay Catchment**



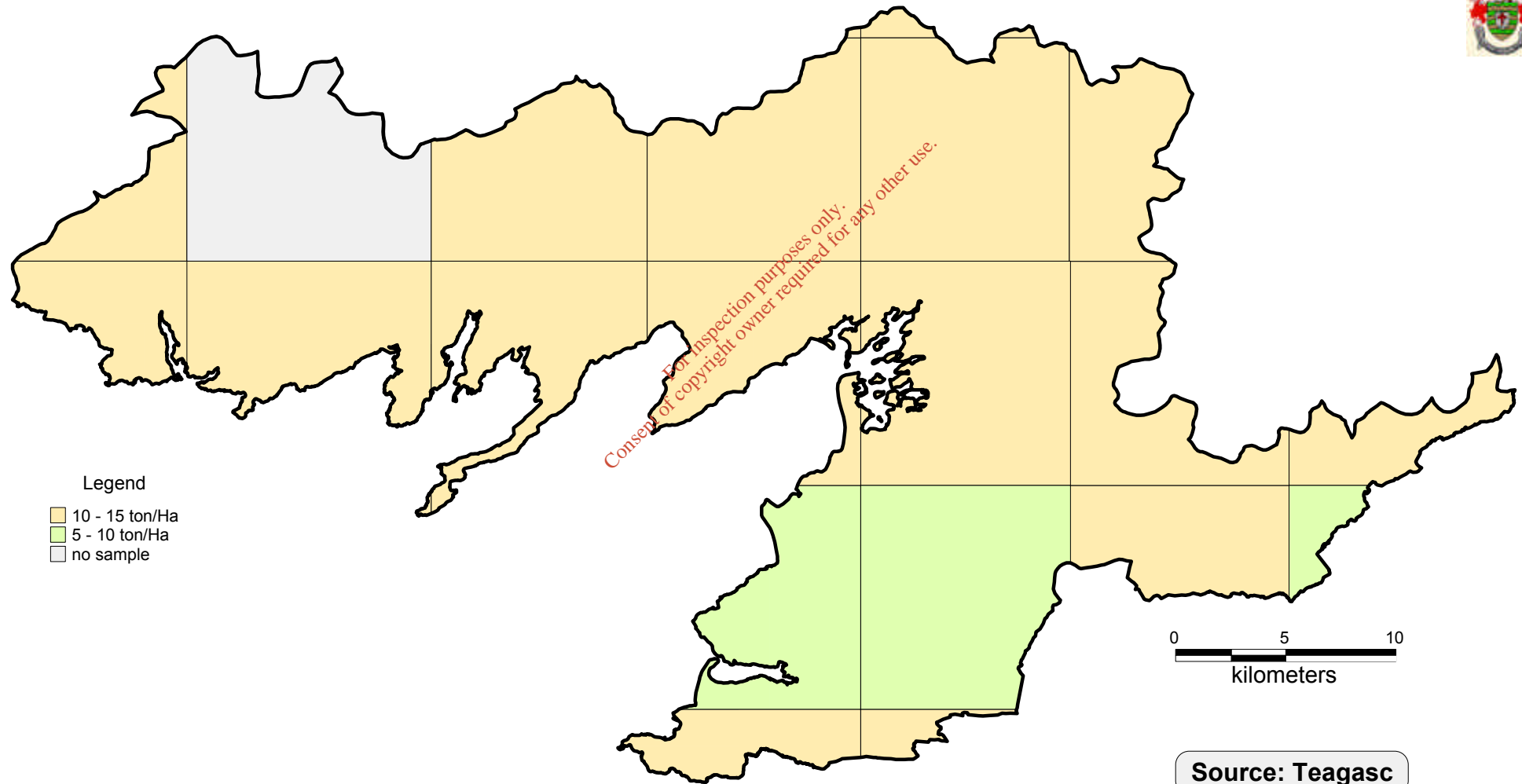
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 51
Mean Phosphorous Levels in Soils (1989 - 1995)
within the Donegal Bay Catchment**



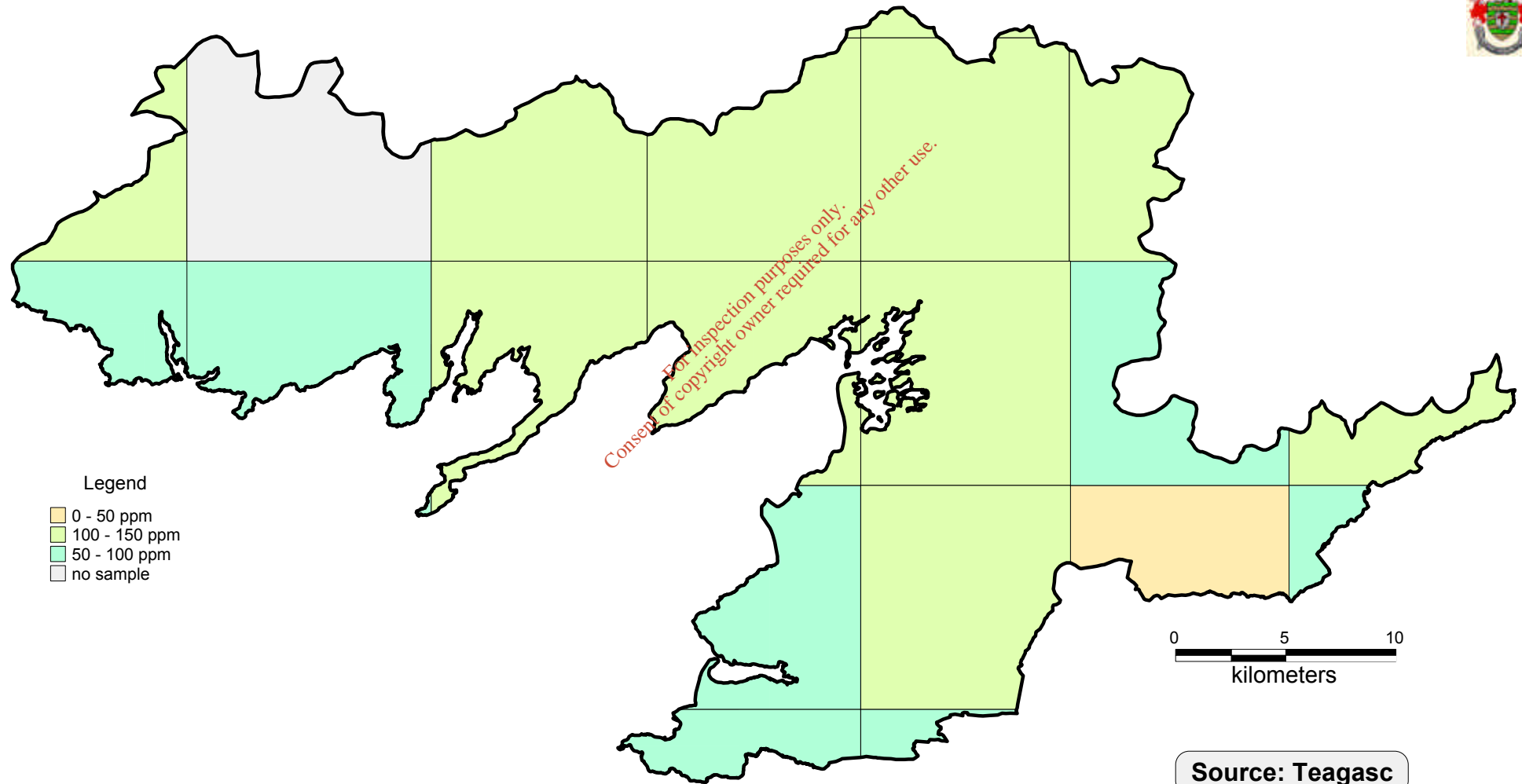
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 52
Levels of Lime required in Soils (1989 - 1995)
within the Donegal Bay Catchment**



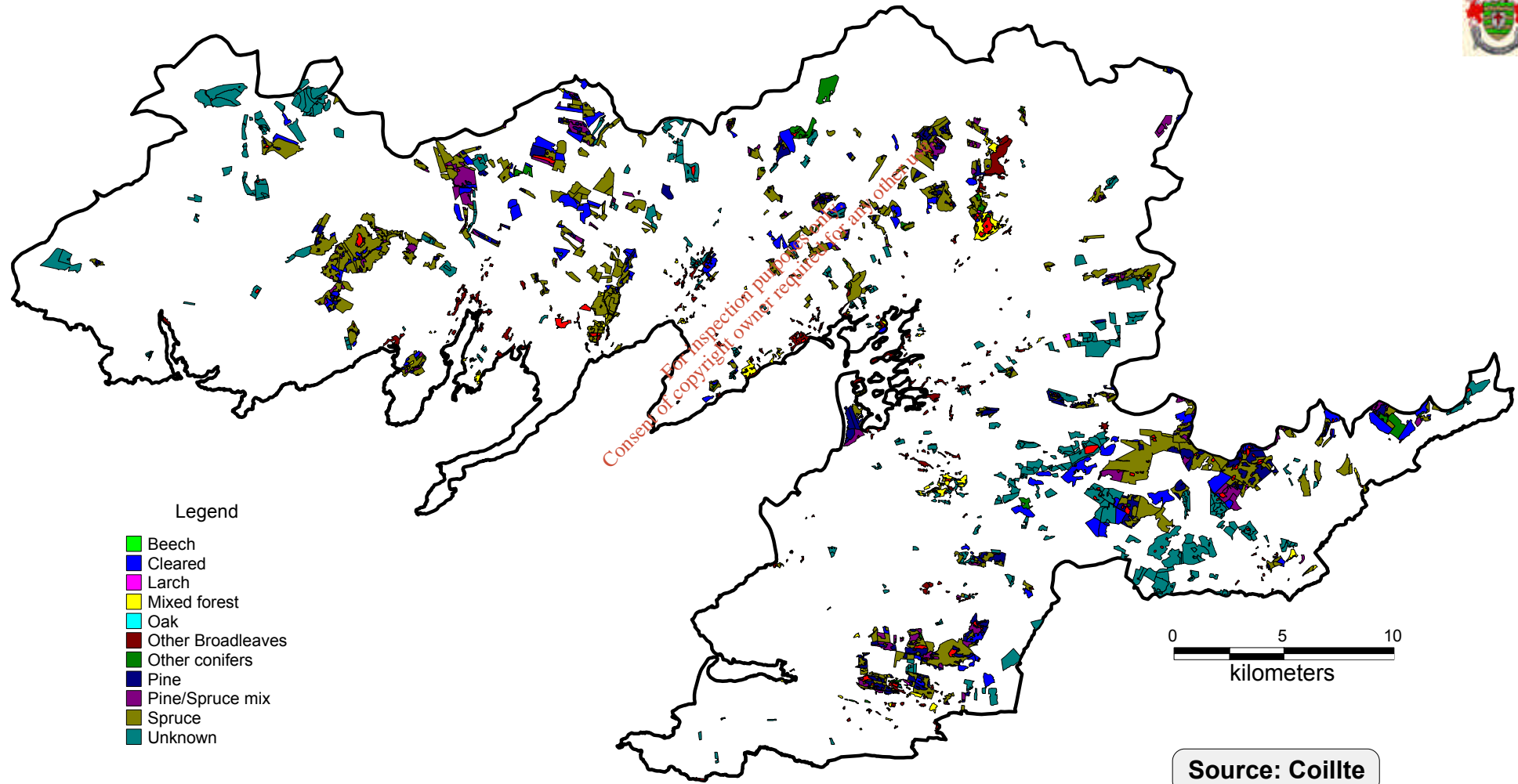
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 53
Potassium required in Soils (1989 - 1995)
within the Donegal Bay Catchment**



**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 54
The Various Forestry Types
within the Donegal Bay Catchment**



Legend

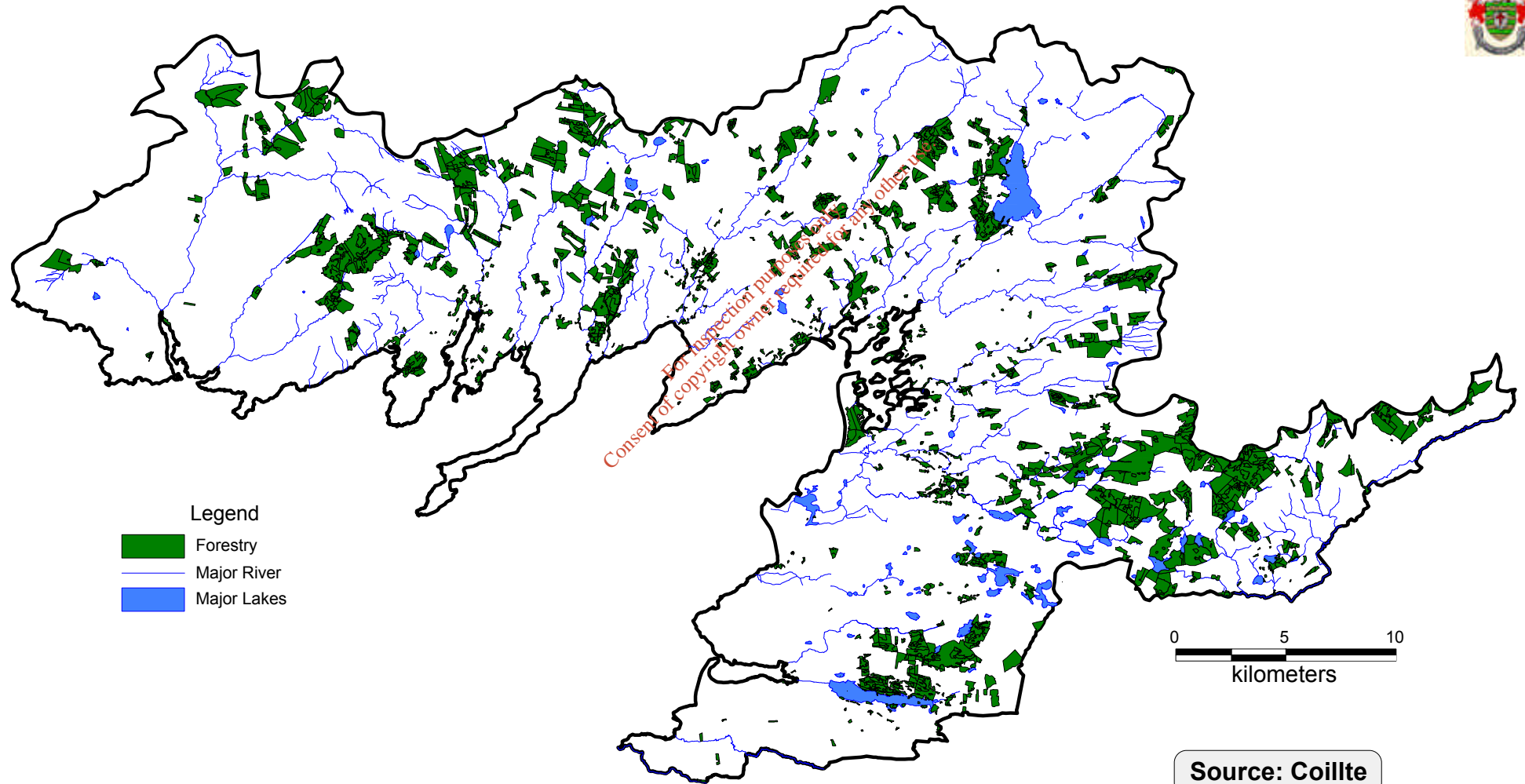
- Beech
- Cleared
- Larch
- Mixed forest
- Oak
- Other Broadleaves
- Other conifers
- Pine
- Pine/Spruce mix
- Spruce
- Unknown



Source: Coillte

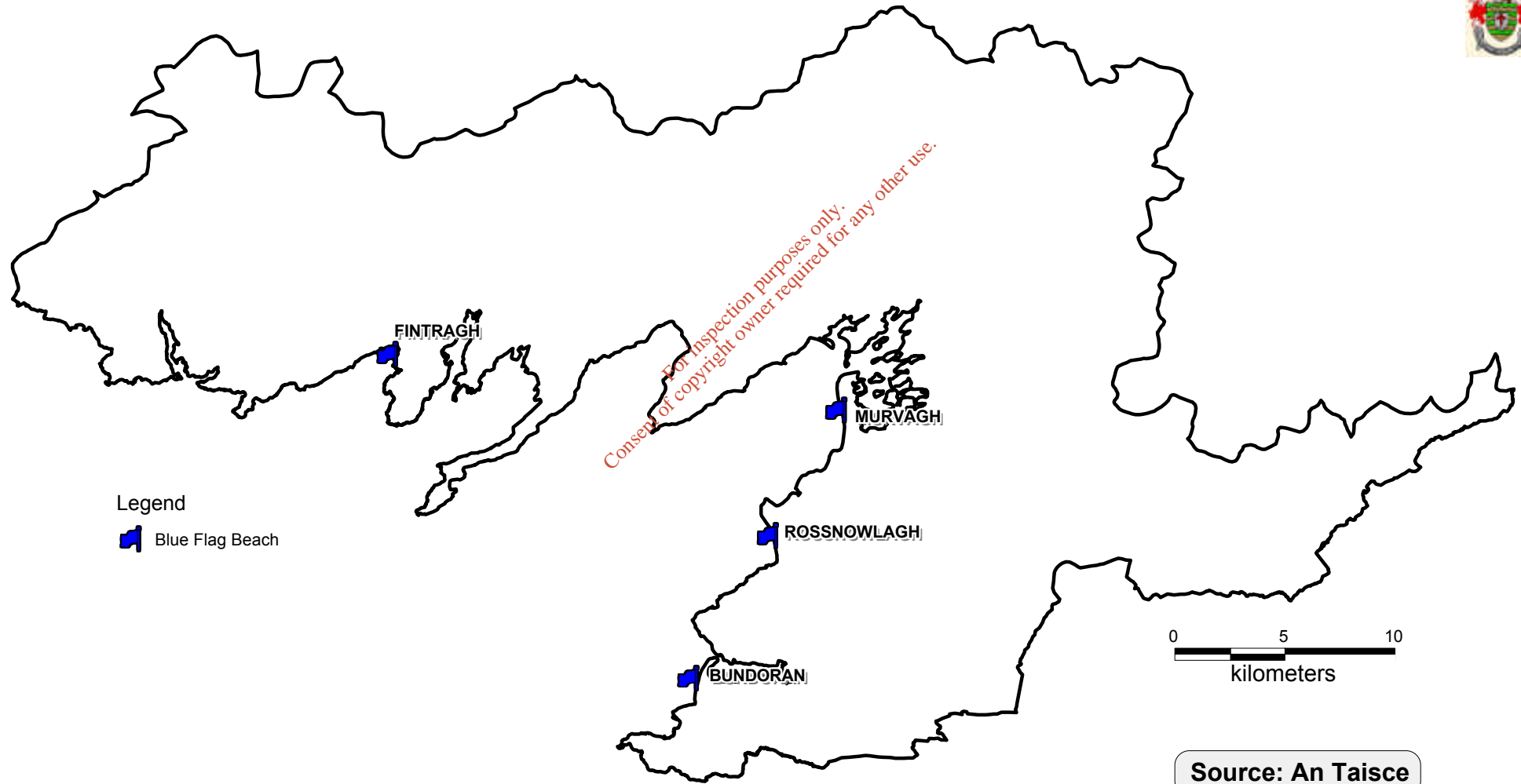
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 55
The Various Forested Areas
within the Donegal Bay Catchment
relative to the Various Fresh Water Systems**



**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

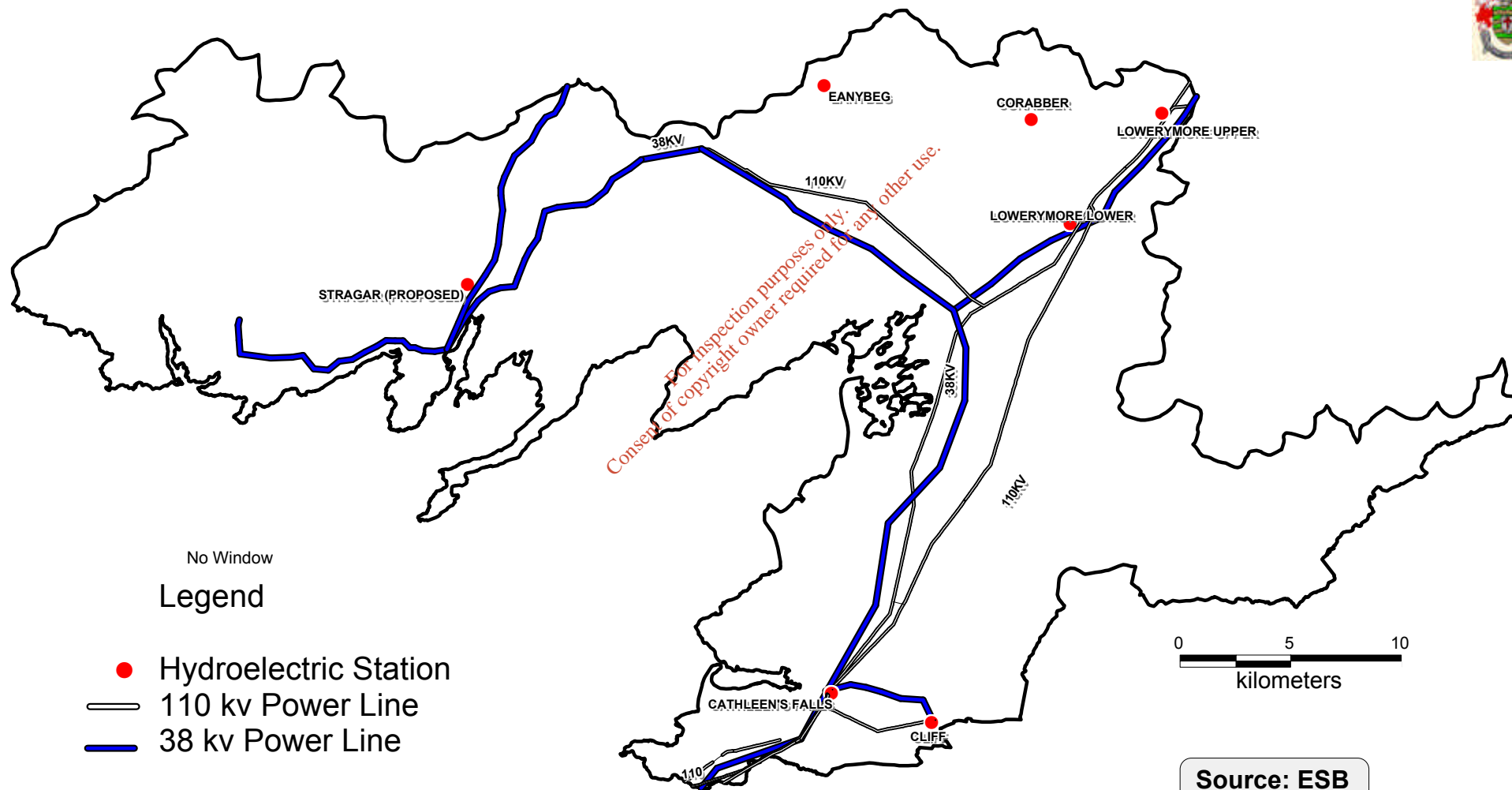
**Map 56
The Blue Flag Beaches
within the Donegal Bay Catchment**



Source: An Taisce

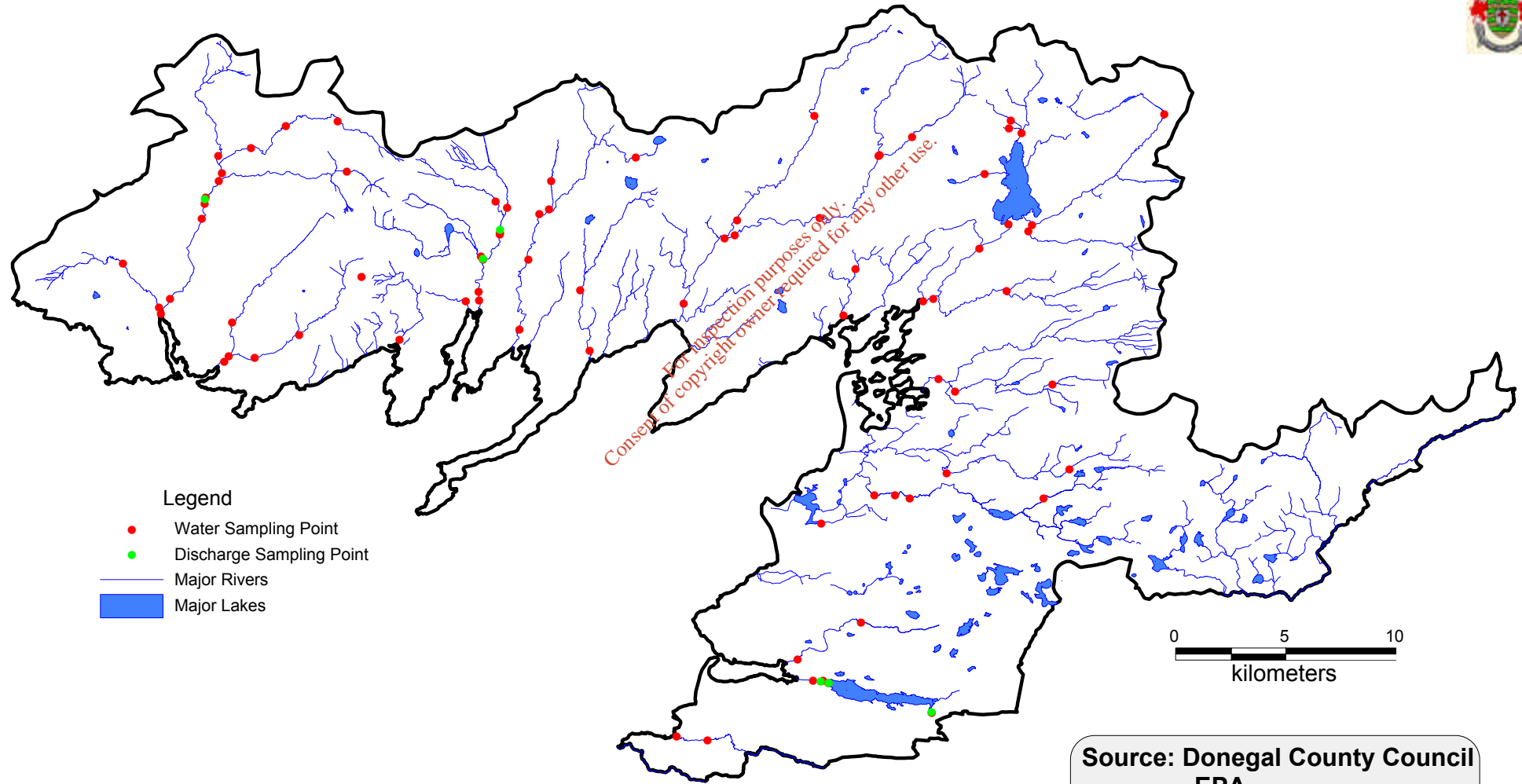
**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 57
The Position of the Hydroelectric Installations
within the Donegal Bay Catchment**



**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 58
The Location of the River Sampling Points
within the Donegal Bay Catchment**



Legend

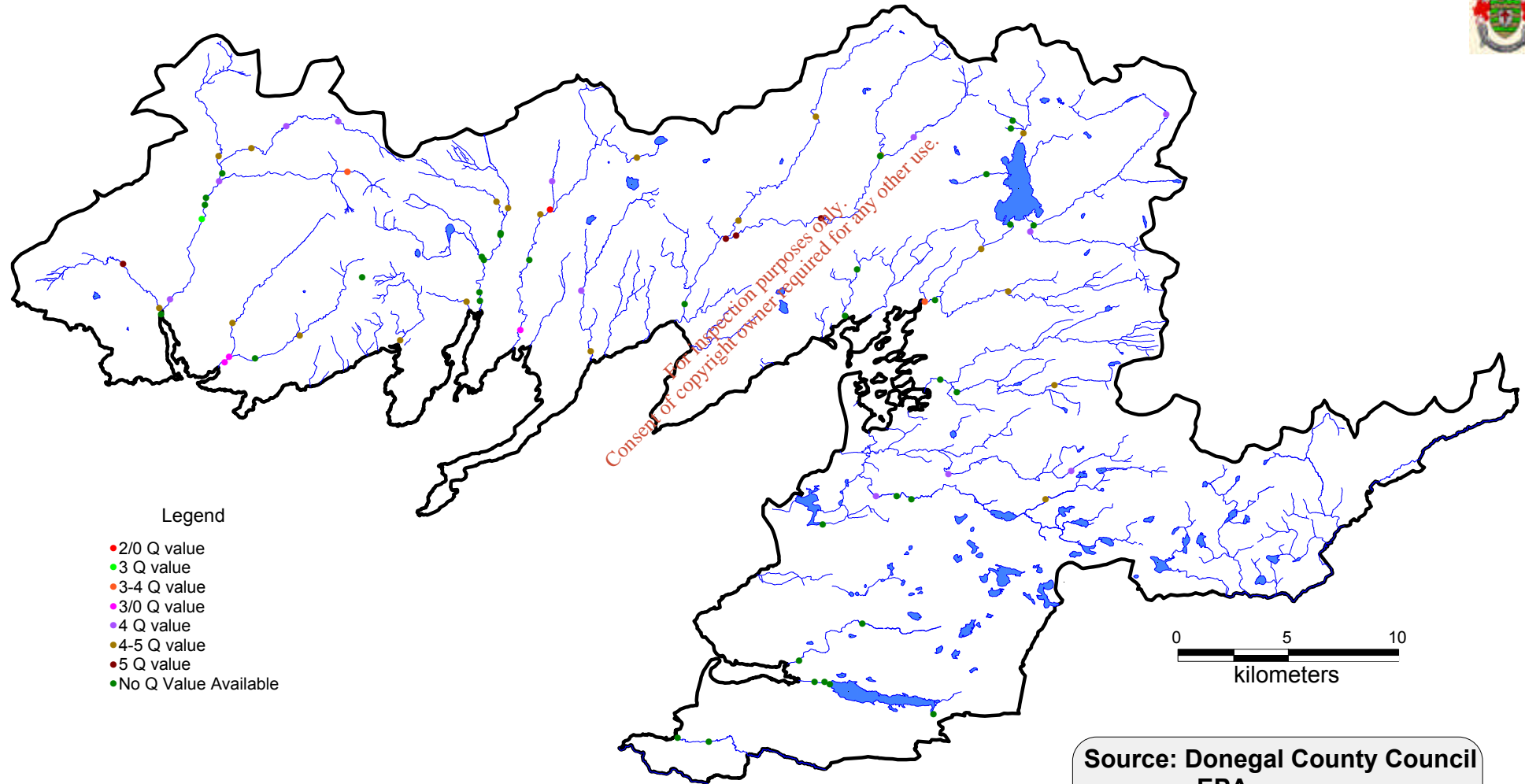
- Water Sampling Point
- Discharge Sampling Point
- Major Rivers
- Major Lakes

0 5 10
kilometers

**Source: Donegal County Council
EPA**

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 59
The County Council's Measures Report (1999)
River Target Q Values Set
within the Donegal Bay Catchment**

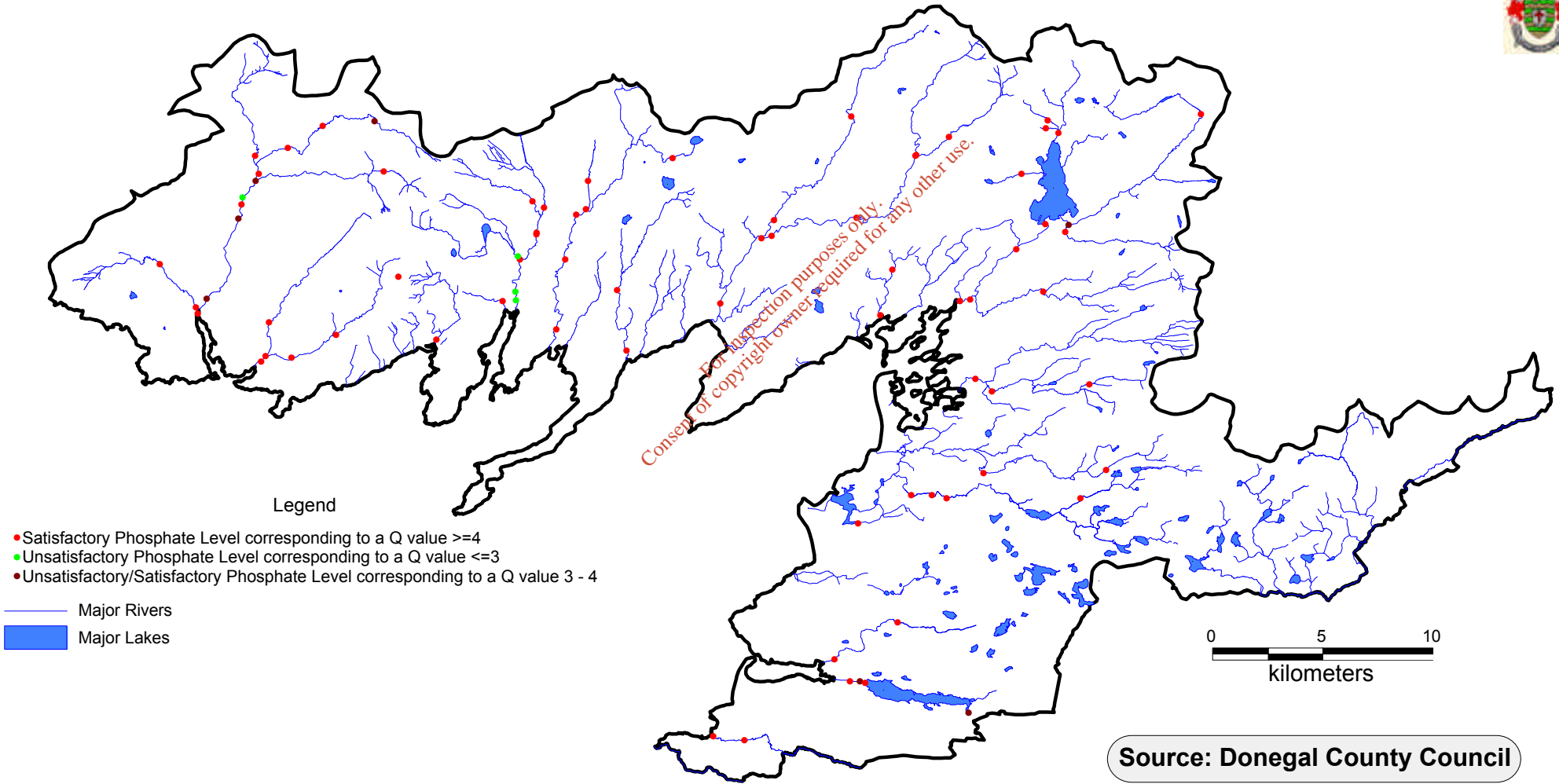


**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 60
The River Orthophosphate Levels
within the Donegal Bay Catchment
corresponding to Q Values**



*For inspection purposes only.
Consent of copyright owner required for any other use.*



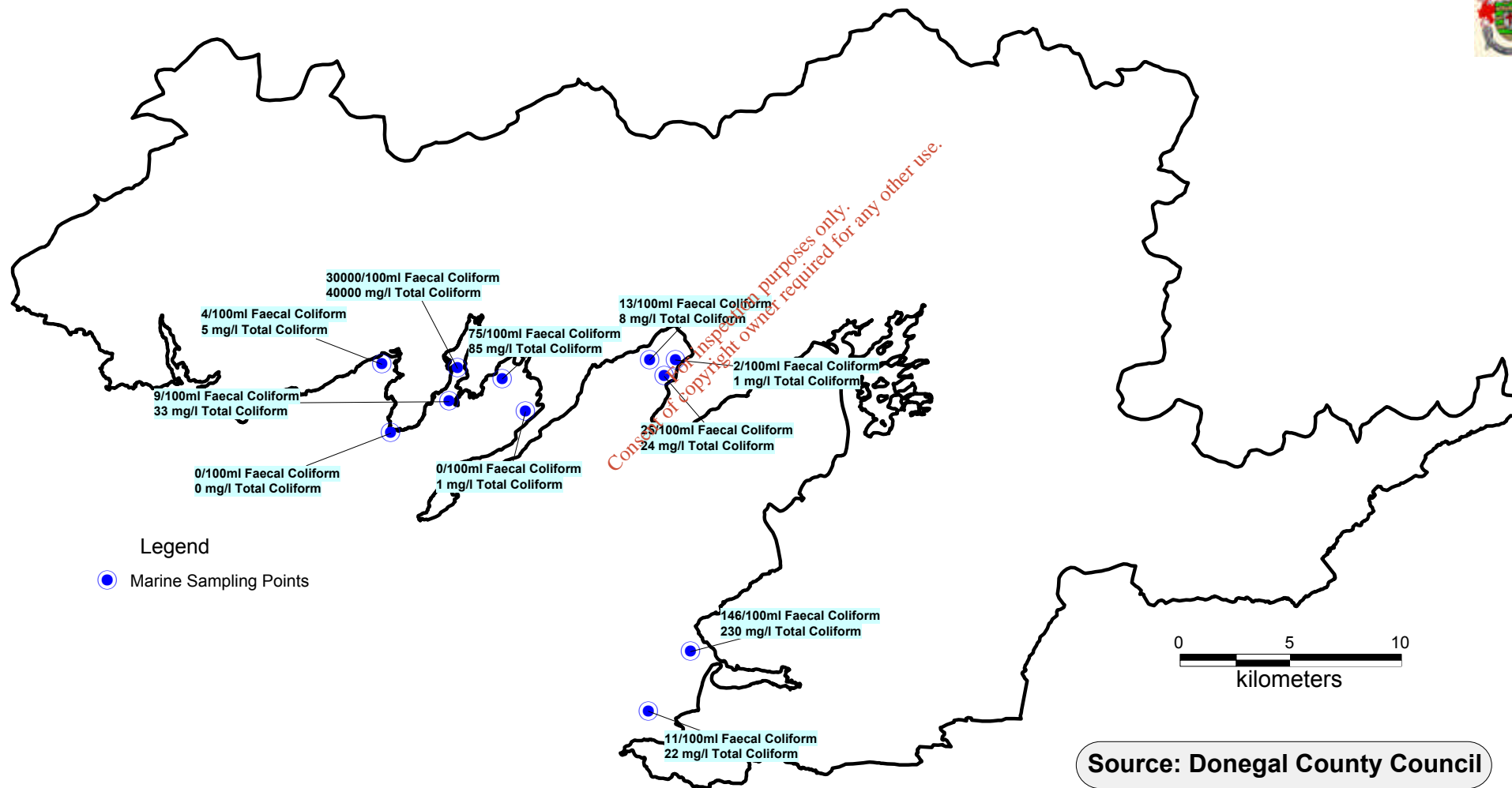
Legend

- Satisfactory Phosphate Level corresponding to a Q value ≥ 4
 - Unsatisfactory Phosphate Level corresponding to a Q value ≤ 3
 - Unsatisfactory/Satisfactory Phosphate Level corresponding to a Q value 3 - 4
- Major Rivers
- Major Lakes

Source: Donegal County Council

**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 61
The Marine Sites Surveyed
within the Donegal Bay Catchment**



**DONEGAL BAY
WATER QUALITY
MANAGEMENT
PLAN**

**Map 62
The Location of the Branded, Trout and Abstraction Lakes
within the Donegal Bay Catchment**

