NS 2 FRESHWATER PEARL MUSSEL SUB-BASIN MANAGEMENT PLANS

REPORT ON MORPHOLOGICAL MONITORING AND CATCHMENT WALKOVER RISK ASSESSMENTS IN THE NORE CATCHMENT

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1.0 INTRODUCTION

In order to assess the hydromorphological alterations within the Nore catchment the EPA WFD classification tool called the River Hydromorphology Assessment Technique (RHAT) was utilised by RPS. This tool was developed through the North South Share project, to classify rivers in terms of their morphology. It is a field technique which assigns a channel typology. This influences the rivers physical attributes assessed in the field. The technique assigns a morphological classification directly related to that of the WFD – high, good, moderate, poor and bad.

RHAT surveys were carried out at high risk areas located within pearl mussel populations. The methodology classifies river hydromorphology based on a departure from naturalness, and assigns a morphological classification, based on semi-quantitative criteria. It is designed to be a rapid visual assessment based on information from desktop studies, using GIS data, aerial photography, historical data and data obtained from previous field surveys as well as observations in the field.

A catchment walkover risk assessment survey sheet was also designed by the project team in conjunction with NPWS in order to focus the collation of the pressure data in the field with respect to the Freshwater Pearl Mussel. The risk sheet was divided into eight categories designed to highlight the main pressures within the catchment. The eight categories are as follows:

- Source of erosion
- Diffuse Nutrient
- Diffuse Silt
- Current Riparian Zone
- Field Drainage
- Outfalls
- Abstractions
- Barriers to Migration

Each sub-pressure within the eight categories is analysed and an overall risk assessment of High, Medium or Low is assigned to that category. The "one out all out principle" is then used to assign the river stretch or point an overall risk category. A detailed description, together with a series of photographs outlining the pressures is also taken. The risk assessment sheets will assist the project team in focussing the specific freshwater pearl mussel measures within the catchment.

Location of survey stretches and points are shown in Figure 1

2.0 METHODOLOGY

Sampling was carried out on the $20^{\text{th}} - 24^{\text{th}}$ July 2009.

2.1 RIVER HYDROMORPHOLOGY ASSESSMENT TECHNIQUE (RHAT)

Classification of hydromorphology can be used to contribute to the status classification of water bodies at high ecological status only. However, RHAT plays a vital role in identifying why a water body might be failing to achieve Good Ecological Status as it is based on the observed impact in the field. It can assist in deciding what indirect and direct efforts are needed to improve status and in helping to prevent further deterioration.

The eight criteria that are scored are:

- 1. Channel morphology and flow types
- 2. Channel vegetation
- 3. Substrate diversity and embeddedness
- 4. Channel flow status
- 5. Bank and bank top stability
- 6. Bank and bank top vegetation
- 7. Riparian land use
- 8. Floodplain connectivity

Sheet 1 of the RHAT form contains the Field Health and Safety sheet which is filled on arrival at the site. Before the field survey, a desk study is required this element of the survey was completed as part of the development of the draft sub-basin management plans. The reach identification and physical characterisation sections for each field site are recorded on Sheet 2 (see Appendix 1) with all information available from GIS and aerial photographs, including:

- a. expected stream type and the description of various stream types
- b. catchment and reach-scale pressures (these may help to identify, confirm or explain field observations);
- c. expected riparian vegetation types (for high quality status);
- d. the weather conditions on the day of the survey, and those immediately preceding the day of the survey. This information is important to interpret the effects of storm events on the survey results;
- e. the estimated stream width and the reach length to be assessed (~ 40 x width).
- f. any other notable issues (e.g. from previous surveys).

A score is allocated to each relevant attribute (the number of attributes to be assessed will depend on the stream type). Where the condition departs from the reference condition, note should be made if this condition results from a particular identifiable pressure. Where possible and where relevant, all attributes should be included in the assessment, using the assessment sheet (Sheet 3, see Appendix 1). If an attribute is not assessed, the score-summary table should be amended (cells shaded) and a note made as to why the assessment was not carried out. The WFD status can still be calculated on the basis of other attributes, but with a note that a particular attribute was omitted.

Transfer scores for individual attributes to the summary table on the survey Sheet 2. Finally the overall WFD category can be calculated using the following values:

> 0.8	= high
0.6 - 0.8	= good
0.4 - 0.6	= moderate
0.2 - 0.4	= poor
< 0.2	= bad

For the purposes of the assessment as part of the NS2 project, a high status for morphology is desirable for pearl mussel habitats. Through work carried out by the Shannon IRBD project on the Freshwater Morphology Programme of Measures Study, it was found that an observed relationship exists between biological data and a RHAT score. The study confirmed that morphological pressure can impact biology and therefore ecological status. In general, sites with RHAT scores less than 0.6 also have less than good Q scores. Similarly high levels of siltation affecting macrophyte populations are reflected by less than good RHAT scores.

Grid references were recorded at all sites using a GPS together with site photographs which were taken using a digital camera.

2.2 CATCHMENT WALKOVER RISK ASSESSMENT

During the development of the draft sub-basin management plans throughout 2008 a complete desk study was conducted of all relevant biological, water quality and pressure source data within the Nore catchment. Best use was made of all available datasets such as the pressure source data collated by the River Basin District Projects for the Article V Characterisation and Programme of Measures Studies. This work allowed the NS 2 project team to assess the catchment through the combined availability of aerial imagery and digitised pressure information. Where gaps in this data existed together with areas that required ground truthing such as physical barriers to migration and point source pressures, catchment walkover risk assessments were focussed throughout the 2009 field survey season.

The catchment walkover risk assessment sheet (See Appendix 3) covers eight main categories or pressures which are subsequently sub-divided into the various sources. Each source is ticked if present and an overall risk assessment for each pressure assigned from High to Medium to Low over the survey length or point. All eight pressures are combined to give an overall risk assessment to the catchment based on the "one out all out principle".

3.0 RESULTS

Figure 1 indicates where the Nore RHAT assessments were carried out throughout the catchment.



Figure 1 Morphology RHAT Assessment Locations

(The RHAT numbering system corresponds to the site code which may mean they are not sequential where a RHAT was not carried out at a particular site)

3.1 RHAT Survey Results

Two RHAT surveys were carried out throughout the Nore catchment. The results of these surveys can be found in the electronic appendix. One was deemed to be at good status and one at moderate status within the vicinity of the pearl mussel populations.

On the day in which the survey took place RHAT number 4 survey stretch was in spate. The river appears to have been resectioned and reinforced along this stretch together with some over widening and over deepening. Sewage fungus was found at the discharge point from Glanbia Creamery which is located at the end of the survey stretch. This is a lowland meandering channel which scored low on all of the attributes except for barriers to continuity which scored four out of four. Animal trampling and poaching were recorded together with high levels of suspended solids in the channel as a result the substrate condition was not visible. The riparian landcover scored the lowest

at 1.5 out of four due to the intensive landuse of improved grassland which surrounded the survey stretch with little to no buffer zone in some cases. Overall this stretch was classified as good status.

The second RHAT survey was carried out at Site 12 where access directly to the channel was quite difficult. Resectioning and reinforcement was again evident on both the left and right bank with the channel possible over deepened also. This is a lowland meandering channel with the substrate condition and channel vegetation not visible due to the high water levels on the day in which the survey took place together with the level of suspended solids in the channel. All attributes scored three out of four except for barriers to continuity which scored four out of four. Overall, this survey stretch was classified as moderate status.



Plate 3.1 Representative photographs from reach

Details in relation to photographs are tabulated in Appendix 2.

3.2 Catchment Walkover Risk Assessment Results

A total of eighty one sites were surveyed in the Nore catchment with a risk assessment carried out at forty one of theses sites. The remaining forty sites were stopping points. These are locations within the catchment where information was recorded in relation to a potential risk or pressure which was not previously noted through the desk based assessments. **Figure 2** outlines the stopping point locations together with the High to Low Risk Assessment from the Catchment Walkover Risk Assessments. Twenty Four of the forty sites were considered to be high risk, fourteen classified as medium risk and the remaining three at low risk. **Figure 3** outlines the percentage at high and medium risk throughout the catchment.

The most common high risks categories identified were:

- Bank Erosion evident at 58% of high risk sites
- Current Riparian Zone evident at 50% of high risk sites

The Current Riparian Zone category of the Catchment Walkover Risk Assessment slightly varies from the seven other categories or pressures. The Current Riparian Zone is not a pressure in itself; however the aspects listed in this category are the interceptors to the pressure and convey the extent or lack of buffer provided by the riparian zone. A high risk riparian zone indicates that the pressures acting on the river are more likely to have significant impact. For example the lack of fencing along a river stretch can lead to excessive trampling and/or poaching which in turn may lead to siltation within a pearl mussel habitat. The various categories and pressures listed in the Catchment Walkover Risk Assessment sheet were designed to assist the project in focussing the measures which will be needed to combat the pressure along its pathway, rather than removing a source which may not always be possible such as intensive agriculture. Recording the Riparian Zone in terms of its current performance as a buffer is important in this regard. Current Riparian Zone has ten aspects as follows:

- Fencing
- Buffer

- Tree line at bank
- Tree line buffer
- Plantation with no buffer
- Urbanisation
- Flood Protection
- Marshy Land
- Landuse at bank
- Other Sources

Where one or any of these aspects is found to be the cause of significant impact to the riparian zone, or the channel along the stretch then this category may be assigned a high risk score. Locations where pressures were evident in the field which were not highlighted through the desk based assessment were also noted as stopping points. These points were not selected prior to fieldwork, they were opportunistic as the catchment drive through was taking place.



Figure 2 Location of Stopping points and Catchment Walkover Risk Assessments

Figure 3 Risk Assessment Overview





The break-down of pressure categories identified as high risk are outlined in Figure 4

Figure 4 Breakdown of High Risk Categories

The current riparian zone category is a considerable pressure within this catchment, however this pressure generally relates to how a poor riparian zone can intensify other pressures e.g. animal trampling caused by a lack of fencing or increased diffuse nutrient as a result of an ineffective or poor buffer zone.

As a result quantitative statistics do not adequately convey the pressures that arise through a high risk riparian zone, the main issues identified were:

• A complete lack of fencing or insufficient fencing on agricultural land – within this catchment this has resulted in increased erosion from extensive animal trampling and poaching, increased nutrient enrichment from animals being within and near channel, increased silt within channel as trampling causes patches of bare sediment which is washed into the river channel. Much of this animal access is in relation to drinking water access and the lack of drinking water troughs set back from the river channel.

Plate 3.2 and 3.3 give an indication of some of the extreme cases of animal trampling and poaching which were located through the catchment walkover risk assessments. In both images the banks have become highly eroded leading to a high risk of silt input to the channel.



Plate 3.2 Taken at Site 2 (See Figure 2)



Plate 3.3 Taken at Site 23 (See Figure 2)

• A lack of adequate buffer or tree line in areas where the channel is within close proximity to commercial peat cutting or intensive agriculture, this results in an

increase in diffuse nutrient and/or silt as it is washed directly into the channel with no buffer to slow down the effect.

 \circ The most common sources of erosion were animal trampling and bank erosion.

3.2.1 Fords/Access Points

Within the Nore catchment approximately 8 significant ford crossings were recorded. The majority of which appear to have both animal and vehicular access and some point.



Plate 3.4 Site 3



Plate 3.6 Site 4



Plate 3.8 Site 1



Plate 3.5 Site 1



Plate 3.7 Site 1



While the access point in **Plate 3.7** is partially limiting to livestock access it is very likely to still contaminate the water and cause effects downstream. All of these ford crossings both vehicular and animal can cause sediment loss from the vehicles/animals and the access roads, leading to excessive siltation in the river.

3.2.2 Peat Cutting

The drainage of bog lands and subsequent peat extraction result in an increase in the amount of water emanating from sites both as baseflow and storm water, coupled with an increase in the area of exposed, dry soil (peat) potentially leading to large quantities of peat silt being discharged to the receiving waters. The potential for run-off of peat silt is greater during extreme rainfall events (Shannon IRBD Freshwater Morphology Programmes of Measures and Standards Study, Review of Best Practice Measures, 2008).

In addition to the impacts on adult and juvenile pearl mussels, the increased load of peat silt from peat cutting operations can seriously impact on receiving rivers through:

- Settlement on key substrates e.g. salmonid spawning and nursery areas
- Formation of secondary banks and islands which vegetate, stabilise and may alter stream morphology and hydrology
- Prevention of erosion of gravel and cobble materials from banks back into channel
- Elimination of flora and fauna

Major settlement of silt is more likely in low gradient reaches of rivers if this material consists of very fine particles.



Figure 5.0 indicates the areas of peat cutting observed using aerial imagery.

Peat cutting is evident throughout the Nore catchment largely to the North and North West of the catchment. These areas of peat cutting (totalling 4200ha) are of key concern in terms of potential impact to the pearl mussels. The total area provided above and depicted in **Figure 5.0** is taken from polygons which were delineated through the desk based assessment of the 2005 Aerial Imagery.

During the 2009 catchment walkover field surveys some of these areas of peat extraction were targeted for further investigation in particular to identify areas of commercial peat extraction and those which are directly discharging to the river watercourse. This exacerbates the sediment run-off problem by providing channels for rain water, thereby transporting heavy sediment loads to the river. Furthermore, the lack of riparian zone increases the probability of excessive sediment run-off to the river.



Figure 6.0 Nore Valley Bog NHA

Timoney Bog which is contained within the Nore Valley Bog NHA was found to be operating on a private basis. The extent to which the peat extraction covered would indicate that it should be IPPC licensed and operated commercially. Field investigations found no controls in place to prevent silt and nutrient input to the river watercourse and visible impacts on water quality were noted.



Figure 7.0 Catchment Walkover Survey locations indicating poor water quality

The Freshwater Pearl Mussel is extremely sensitive to sedimentation therefore any activity that can give rise to sediment inputs to water has the potential to impact on the species. One of the key issues for the future management of the Nore catchment and the return of the Freshwater Pearl Mussel population within this catchment to favourable conservation status is the minimisation of sediment losses arising from peat abstraction and spreading. **Figure 7** above provides an indication of the high levels of suspended solids and fine silts which can be found within the rivers of the Nore catchment in association with these peat cutting areas.

3.2.3 Point Sources

Point sources discharging nutrients, such as wastewater treatment plants, can contribute very significant nutrient and organic loads to rivers.Quarry dust and effluent can cause problems with silt pollution and, in some cases, lime pollution. Landfills and landfill leachate can be sources of surface and groundwater contamination that can find pathways to the river. Storm water drainage can be a source of silt and pollutants. All point sources identified through the desk based assessment were investigated further, where possible, through the fieldwork investigations. As part of the catchment walkover risk assessment the point sources were looked at further by the NS2 survey team.

One major point source is located directly above the pearl mussel population – Glanbia Plc which is a large dairy plant just outside Ballyraggat. It discharges above the main pearl mussel population and currently holds an IPPC licence.



Plate 3.10 outfall from Glanbia which discharges directly into the Nore main channel



Plate 3.11 outfall from Glanbia which discharges directly into the Nore main channel

Plate 3.10 and 3.11 gives an indication of the sewage fungus which was found growing on at the outfall from Glanbia at the time at which the surveys took place. License reviews should be undertaken to ensure the cooling line discharge points located on the Nore main channel are meeting their license requirements.

3.2.4 Quarries

The 2008 desk survey identified, from aerial imagery, one quarry up-stream of the pearl mussel population (see **Figure 8**). The potential risk to the pearl mussel from quarry dust, effluent or other pollution was investigated during 2009 survey season.



Figure 8 Location of Quarry within the catchment

The Quarry in question was Carrolls Quarry and was found to be active on the day on which the survey took place. The aerial imagery map shown in **Figure 9** gives an overview of the location of the quarry and its proximity to the river channel. A tributary of the River Nore main channel flows adjacent to the Quarry and appears to also cross through the site. Any silt or pollution discharged to this tributary could have a knock on effect on the Nore main channel, as the tributary feeds in above the Freshwater Pearl Mussel population. The survey in July 2009 comprised a visual inspection of the quarry from the adjacent road/land and of the river approximately 300 m downstream of the quarry. There was no evidence of pollutants discharging from the quarry or of sedimentation in the river on that date.



Figure 9 Aerial Imagery of Carrolls Quarry



Plate 3.12 & 3.13 Carroll's Quarry Co. Laois

The quarry is licensed under Section 261 of the Planning & Development Act 2000, under Quarry Registration Number QY005/62. Laois County Council carries out an annual site inspection of the quarry, the last one taking place on 7th September 2009. The quarry was found to be environmentally compliant on that date. Settling Ponds are used within the quarry, with the water being re-used in the quarrying process and for dust suppression. Dust & Noise monitoring also takes place within the quarry.

A significant number of additional quarries have been identified within the Nore catchment through the mapping of point sources for the South Eastern River Basin Management Plan. The relevant local authorities must examine and review, as required, all authorised quarry discharges by 22nd December 2011 to ensure the environmental objectives of the Freshwater Pearl Mussel Regulations are achieved and all pollution incidents are avoided.

4.0 CONCLUSIONS

The Nore sub-basin catchment appears to be in an over all poor condition from a morphological point of view. Both stretches which were surveyed using the EPA River Hydromorphological Assessment Technique were classified lower than that which is required by a fully functioning Freshwater Pearl Mussel Population. As these surveys are carried out within the vicinity of the Freshwater Pearl Mussel Habitat it is a direct indication that the ecological condition of this habitat has been impaired.

The high levels of suspended solids which were noted throughout the catchment are also an indication of the pressure which this system is under. The intensive landuse and point pressures are also causing pressure on both the pearl mussel and its habitat and adding to the overall unfavourable conservation status within the Nore catchment. **APPENDIX A**

RHAT Field Sheet

Field Health and Safety sheet					
River Name	Site Code		Da	te	
1 = Low risk 5 = High risk					
Please circle applicable number					
PARKING	1	2	3	4	5
FENCES/BARRIERS	1	2	3	4	5
GROUND STABILITY	1	2	3	4	5
DENSE VEGETATION	1	2	3	4	5
BANK STEEPNESS OR STABILITY	1	2	3	4	5
RISK FROM ANIMALS	1	2	3	4	5
PHONE COVERAGE	1	2	3	4	5
Previous RHS/RAT/RHAT surveys - year	and code				
Details of access					

RHAT (VERSION 2)

TRIBUTARY / MAIN CHANNEL*	
Site Identification	
River Name	Site Code
Nearest WFD site FF10	
Water Body ID	Start U / S or D / S*
First IGR	Last IGR
Bank surveyed from L / R / Both / in-Cha	innel ^s
Desk-study notes	Field Notes
ACTION TO TAKE PRIOR TO FIELDWORK	River type
General overall shape of river Check weirs, impoundments etc. on catchment	Date
Floodplain connectivity and land use	- Time
Expected river type	Surveyors
Rain last week	Weather conditions now
Estimated river width	Estimated river width (m) (average 3 readings)
Estimated survey length	
Riparian land cover(s)	Estimated survey length (m) (40 X wetted width)
River Agency designated?	Estimated river depth (m)
Other comments including geology - limestone / siliceous / peat*	Channel characteristics (e.g. different stream types on the reach)
RESULTS	Pressures
Hydromorph score	
WFD class	
	*Circle as appropriate
Photograph details include IGR or approximate	location

NS RHAT

Anthropogenic Impacts												
River Name	Site Code Date											
Feature	Tick if present, record as E if > 30%											
Resectioning	None 🔲 Left bank 🔲 Right bank 🗖											
Reinforcement	None Left bank Right bank											
Embankments NO*	LB RB Set back LB SB RB											
Culverts**	Y / N / Unknown*											
Over deepening	Y / N / Unknown*											
Wver widened	Y / N / Unknown*											
Narrowing	Y / N / Unknown*											
Fords**	Y / N*											
	Major / Intermediate / Minor											
Bridges** NO*												
Weirs** NO*												
Physical features or resource use if applicable. *												
Deflectors / Jetties / Arterial drainage / Side chann	nels / Mid channel bar / Field Drains / Mill Race											
Navigation / Fishing / Recreation / Forestry/ Urb	pan / Industry / HEP											
Trashline present (height m) above water / Buf	ffer zone (LBm / RBm back from water edge)											
Other observations - Invasives - Trees - Birds - Pe	ollution indicators - Invertebrates*											
Rhododendron / Himalayan Balsam / Japanese Kn Laurel/ Gunnera	notweed / Giant hogweed / Snowberry / Cherry-											
Sycamore / Beech / Conifers / Oak / Ash / Alder / W Holly	Villow / Birch / Hazel / Hawthorn / Blackthorn /											
Heron / Sand martin / Grey wagtail / Dippers / Kin	gfishers /											
Sewage fungus / Diatomaceous algae / Oil / Cladophora / Vaucheria / Dumping / Silt on Substrate												
Other comments:												
* Circle as appropriate E - extensive. ** Tally as appropriate. LB - left bank / RB - right bank												

RHAT RIVER HYDROMORPHOLOGY ASSESSMENT TECHNIQUE

Field Assessment of Morphe	ological Condition			
River Name		Site Code	D	ate
If river in spate ignore 3 and not visible. Greyed boxes m	l 4 but deduct indi ay be scored but r	ividual scores from note why in Comm	n overall if either fe ents/Notes.	eature
	Bedrock	Cascade / Step-pool	Pool-riffle-glide	Lowland Meandering
1. Channel form and flow types	4	4	4	4
2. Channel vegetation	4	4	4	4
3. Substrate condition	4	4	4	4
4. Barriers to continuity	4	4	4	4
5. Bank structure & stability L+R	4	4	4	4
6. Bank vegetation L+R	4	4	4	4
7. Riparian land cover L+R	4	4	4	4
8. Floodplain connectivity L+R	4	4	4	4
TOTAL	32	32	32	32
Hydromorph Score *				
WFD class **				

* Hydromorph score - Assessment score = Maximum Possible score

** WFD Class

> 0.8 = high

>0.6 - 0.8 = good

>0.4 - 0.6 = moderate

>0.2 - 0.4 = poor

< 0.2 = bad.

SHEET 5



APPENDIX 2

PHOTOGRAPHS

Photographs of site locations and catchment pressures on the Nore River and tributaries 2009. All field work photographs can be found in the accompanying electronic appendix.

Overall Risk * uses the "one out all out" principle

Site No.	Catchment Name	Location	x	Y	Photo No.	Bank Erosion	Diffuse Nutrient	Diffuse Silt	Field Drainage	Outfalls	Abstraction	Barriers to Migration	Current Riparian Zone	Overall Risk*	Pressure/Photo Details
1	Nore	Castlemarket Bridge	245769	178087	1	High	Medium	Medium	Medium	Low	Low	High	High	High	Looking upstream from road bridge
1	Nore	Castlemarket Bridge	245769	178087	2	High	Medium	Medium	Medium	Low	Low	High	High	High	Looking upstream evidence of disturbance and field clearance on right bank - Gunnera present, slight embankment
1	Nore	Castlemarket Bridge	245769	178087	3	High	Medium	Medium	Medium	Low	Low	High	High	High	Looking downstream from road bridge, river in spate, highly discoloured
1	Nore	Castlemarket Bridge	245769	178087	4	High	Medium	Medium	Medium	Low	Low	High	High	High	Silage bales in right bank, no buffer (245767, 178092)
1	Nore	Castlemarket Bridge	245769	178087	5	High	Medium	Medium	Medium	Low	Low	High	High	High	On right bank cattle access point created, in channel fence to contain cattle, poaching and trampling along right bank at 245781, 178098. Gunnera on right bank
1	Nore	Castlemarket Bridge	245769	178087	6	High	Medium	Medium	Medium	Low	Low	High	High	High	On right bank cattle access point created, in channel fence to contain cattle, poaching and trampling along right bank at 245781, 178098. Gunnera on right bank
2	Nore	Loughill Bridge	247116	179086	1	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	Left bank - loose rubble, unstable bank appears to have been cleared - associated with one off housing

1			1	1						1			1		behind it
2	Nore	Loughill Bridge	247116	179086	2	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	Weir across channel, river in spate heavily discoloured
2	Nore	Loughill Bridge	247116	179086	3	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	Looking upstream from road bridge
2	Nore	Loughill Bridge	247116	179086	4	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	Eroding banks upstream on right bank
2	Nore	Loughill Bridge	247116	179086	5	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	Storm drain entering on left bank just under bridge at 247116, 179082
2	Nore	Loughill Bridge	247116	179086	6	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	Side tributary/channel entering on left bank at 247128, 179081 Ford behind it with machinery tyre marks
2	Nore	Loughill Bridge	247116	179086	7	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	Cattle trampling/ poaching on left bank at 247128, 179081
2	Nore	Loughill Bridge	247116	179086	8	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	Ford access on right bank at 247129, 179086
2	Nore	Loughill Bridge	247116	179086	9	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	Silt plume in main channel at 247129, 170986
3	Nore	Ironmills Bridge	247379	179658	1	High	Medium	Low	Medium	Low	Low		Medium	High	Looking downstream from road bridge
3	Nore	Ironmills Bridge	247379	179658	2	High	Medium	Low	Medium	Low	Low		Medium	High	Scouring on left bank just downstream at bridge 247379, 179658
3	Nore	Ironmills Bridge	247379	179658	3	High	Medium	Low	Medium	Low	Low		Medium	High	Ford/Cattle access with poaching on left bank just upstream at bridge again fenced under bridge to prevent cattle moving

															downstream or upstream at 247383, 179664
3	Nore	Ironmills Bridge	247379	179658	4	High	Medium	Low	Medium	Low	Low		Medium	High	Slotted house and silage bit approximately 100m back from left bank
4	Nore	Nore	244065	171505	1	Medium	Medium	Low	Low	High	Low	Low	Medium	High	Starting point taken on right bank at 244065, 171505
4	Nore	Nore	244065	171505	2	Medium	Medium	Low	Low	High	Low	Low	Medium	High	244056, 171518 gauging station/ flow on right bank 244056, 171518
4	Nore	Nore	244065	171505	3	Medium	Medium	Low	Low	High	Low	Low	Medium	High	gauging station/ flow on right bank
4	Nore	Nore	244065	171505	4	Medium	Medium	Low	Low	High	Low	Low	Medium	High	Riparian landcover, narrow buffer on left bank at 244037, 171547
4	Nore	Nore	244065	171505	5	Medium	Medium	Low	Low	Hiah	Low	Low	Medium	Hiah	Possible cattle
4	Nore	Nore	244065	171505	6	Medium	Medium	Low	Low	High	Low	Low	Medium	High	Cattle poaching/tramplin g on left bank at 243979 171787
4	Nore	Nore	244065	171505	7	Medium	Medium	Low	Low	High	Low	Low	Medium	High	Bank erosion on right bank at 243979, 171787
4	Nore	Nore	244065	171505	8	Medium	Medium	Low	Low	Hiah	Low	Low	Medium	Hiah	243984, 171875. Overhanging tress on right bank, bare earth underneath
	News	News	044005	171505	0	Ma allium	Mar aliuma						Martinez		Possible cattle allowed to shelter under trees
4	Nore	Nore	244065	171505	10	Modium	Medium	Low	LOW	High	Low	Low	Medium	High	Looking upstream, rise on right bank
4	Nere	Nere	244000	171505	10	Medium	Medium	Low	Low	Llink	Low	Low	Madium	Llink	243973, 171946) 243973, 171986 cattle poaching on
4	Nore	Nore	244065	171505	11	Medium	Medium	Low	Low	High	Low	Low	Medium	High	Outfall Glanbia (243972, 172083)
4	Nore	Nore	244065	171505	13	Medium	Medium	Low	Low	High	Low	Low	Medium	High	Outfall Glanbia (243972, 172083)

															Outfall Glanbia
4	Nore	Nore	244065	171505	14	Medium	Medium	Low	Low	High	Low	Low	Medium	High	(243972, 172083)
4	Nore	Nore	244065	171505	15	Medium	Medium	Low	Low	High	Low	Low	Medium	High	Monitoring point
4	Nore	Nore	244065	171505	16	Medium	Medium	Low	Low	High	Low	Low	Medium	High	Monitoring point
														Ŭ	Inspection
4	Nore	Nore	244065	171505	17	Medium	Medium	Low	Low	High	Low	Low	Medium	High	chamber
															Right bank cleared
			044005	171505	10						1.				to a point at
4	Nore	Nore	244065	171505	18	Medium	Medium	LOW	Low	High	LOW	Low	Medium	High	243975, 172104
															from right bank
4	Nore	Nore	244065	171505	19	Medium	Medium	Low	Low	Hiah	Low	Low	Medium	Hiah	243993, 172176
						modium		2011	2011	g.	2011	2011		g	Looking
															downstream from
															road bridge old
11	Nore	Durrow Town	240870	177470	1	Medium	Medium	Low	Low	Medium	Low	Low	Medium	Medium	stone bridge
															Looking upstream
															from road bridge
11	Nore	Durrow Town	240870	177470	2	Medium	Medium	Low	Low	Medium	Low	Low	Medium	Medium	ranunculus
	Note	Duilow Towin	240070	177470	2	Wediam	Wedlum	LOW	LOW	Wedium	LOW	LOW	Wealdin	Wealum	Banunculus and
															macrophyte
11	Nore	Durrow Town	240870	177470	3	Medium	Medium	Low	Low	Medium	Low	Low	Medium	Medium	growth
															Reinforced right
11	Nore	Durrow Town	240870	177470	4	Medium	Medium	Low	Low	Medium	Low	Low	Medium	Medium	bank
								_	_						Looking upstream
															from left bank at
11	Nore	Durrow Town	240870	177470	5	Medium	Medium	Low	Low	Medium	Low	Low	Medium	Medium	240842, 177494
															Looking
															downstream from
11	Nore	Durrow Town	240870	177470	6	Medium	Medium	Low		Medium	Low	Low	Medium	Medium	240830 177498
	NOIC	Duilow Towin	240070	177470	0	Wediam	Wealdin	LOW	LOW	Wedium	LOW	LOW	Wealdin	Wealum	Lack of buffer on
															right bank 240767.
															177509 grasses
															clipping, garden
11	Nore	Durrow Town	240870	177470	7	Medium	Medium	Low	Low	Medium	Low	Low	Medium	Medium	backing onto bank
															Water access are?
11	Noro		240870	177470	Q	Modium	Modium	Low	Low	Modium	Low	Low	Modium	Modium	HOISES 240737,
	NOTE	Duilow Town	240070	177470	0	Medium	Medium	LOW	LOW	Wedium	LOW	LOW	Medium	Medium	Looking
															downstream from
															end point (240611,
<u>1</u> 1	Nore	Durrow Town	240870	177470	9	Medium	Medium	Low	Low	Medium	Low	Low	Medium	Medium	177491)
															Looking upstream
			0 10070	177170	10			Ι.			1.	.			from end point
11	Nore	Durrow Iown	240870	177470	10	Medium	Medium	Low	Low	Medium	Low	Low	Medium	Medium	(240611, 177491)
															Staff gauge on
11	Nore	Durrow Town	240870	177470	11	Medium	Medium	Low	Low	Medium	Low	Low	Medium	Medium	right bank

	11	Noro	Durrow Town	240970	177470	10	Modium	Modium	Low	Low	Modium	Low	Low	Modium	Modium	Outfall/Culvert at
ŀ	11	INDIE	Dunow Town	240670	1//4/0	12	Medium	wealum	LOW	LOW	wedium	LOW	LOW	wealum	Medium	View looking
	12	Nore	Nore	241861	179719	1	Low	Low	Low	Low	Low	Low	Low	Medium	Medium	downstream
ſ						-										View looking
ŀ	12	Nore	Nore	241861	179719	2	Low	Low	Low	Low	Low	Low	Low	Medium	Medium	upstream
L	13	Nore	Nore	252519	183634	1	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	Bridge
																Bridge apron and
																bed and bank
	13	Nore	Nore	252519	183634	2	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	(252582, 183618)
				050540												Storm drain
ŀ	13	Nore	Nore	252519	183634	3	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	(252591, 183634)
L	13	Nore	Nore	252519	183634	4	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	View upstream
																exposed soil on
	13	Nore	Nore	252519	183634	5	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	right bank
ſ																Tributary entering
																watercourse -
	13	Nore	Nore	252519	183634	6	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	(nlume)
F	13	Nore	Nore	252519	183634	7	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	Substrate
F	10			202010	100001	,	i ngi i	Woodam	Wouldin	Wieddani	Modiani	2011	Weddani	inicalam	1 light	Substrate
	13	Nore	Nore	252519	183634	8	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	(252537, 183582)
																Land use on right
	13	Nore	Nore	252519	183634	a	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	bank - forestry in background
ŀ	10	Nore	Nore	202010	100004	5	Tilgit	Wedlum	Wedlum	Wediam	Mediam	LOW	Wediam	Wedum	Tilgit	View downstream
																from right bank -
L	13	Nore	Nore	252519	183634	10	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	large bridge apron
	10	Noro	Noro	252510	102624		High	Modium	Modium	Modium	Modium	Low	Modium	Modium	High	Culvert entering
ŀ	15	Note	Nore	202019	100004		riigii	Medium	Medium	Medium	Medium	LOW	Medium	weaturn	Tilgit	Animal trampling
	13	Nore	Nore	252519	183634	12	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	on right bank
																View upstream
L	13	Nore	Nore	252519	183634	13	High	Medium	Medium	Medium	Medium	Low	Medium	Medium	High	from bridge.
			Nore		101701						1.					Left bank - erosion
L	14	Nore	Tributary	250690	184/91	1	High	High	Medium	Medium	Low	Low	Low	Medium	High	- no riparian
			Nore		101701						1.					Left bank - land
L	14	Nore	Tributary	250690	184/91	2	High	High	Medium	Medium	Low	Low	Low	Medium	High	drain into field
			Nore	050000	101701						1.					View downstream
ŀ	14	INORE	Iributary	250690	184/91	3	Hign	Hign	iviedium	iviedium	LOW	LOW	LOW	iviedium	Hign	from bridge
		News	Nore	050000	101701		L Bash	L Back	Ma album	Ma alla una	1	1	1	Marillium	L R ada	Tree living further
╞	14	INORE	Iributary	250690	184/91	4	Hign	Hign	iviedium	ivieaium	LOW	LOW	LOW	iviedium	Hign	aownstream
		Neve	Nore	050000	104704	-	Link	Llink	Madhum	Madicurr	Law	Law	Law	Master	الما	Gunnera on right
	14	nore	indutary	250690	184/91	5	High	High	ivieaium	ivieaium	LOW	LOW	LOW	ivieaium	High	Dank

14	Nore	Nore Tributary	250690	184791	6	High	High	Medium	Medium	Low	Low	Low	Medium	High	Erosion on left bank
14	Nore	Nore Tributary	250690	184791	7	High	High	Medium	Medium	Low	Low	Low	Medium	High	Gate entrance to field (250673, 184770)
14	Nore	Nore Tributary	250690	184791	8	High	High	Medium	Medium	Low	Low	Low	Medium	High	Farm (250663, 184766)
14	Nore	Nore Tributary	250690	184791	9	High	High	Medium	Medium	Low	Low	Low	Medium	High	Ditch entering river
14	Nore	Nore Tributary	250690	184791	10	High	High	Medium	Medium	Low	Low	Low	Medium	High	Ditch entering river
15	Nore	Nore Tributary	247980	181021	1										View downstream from bridge
15	Nore	Nore Tributary	247980	181021	2										View upstream from bridge
15	Nore	Nore Tributary	247980	181021	3										Sediment at bridge piers
15	Nore	Nore Tributary	247980	181021	4										Outfall to river under bridge (247977, 181025)
15	Nore	Nore Tributary	247980	181021	5										Ditch from Laois County Council monitoring house (247998, 181053) (pump house)
15	Nore	Nore Tributary	247980	181021	6										Pump house - possible abstraction?
15	Nore	Nore Tributary	247980	181021	7										Door to pump house. Poison Gas Chlorine (247979, 181062)
16	Nore	Nore Tributary	245694	183387	1	Low	Medium	Low	Medium	Medium	Low	Low	Medium	Medium	View upstream - good filter - in channel vegetation beneficial
16	Nore	Nore Tributary	245694	183387	2	Low	Medium	Low	Medium	Medium	Low	Low	Medium	Medium	Arable land on left bank
16	Nore	Nore Tributary	245694	183387	3	Low	Medium	Low	Medium	Medium	Low	Low	Medium	Medium	Outfall just downstream of bridge on right bank
16	Nore	Nore Tributary	245694	183387	4	Low	Medium	Low	Medium	Medium	Low	Low	Medium	Medium	Pumphouse - small abstractions? (245688, 183390)

16	Nore	Nore Tributary	245694	183387	5	Low	Medium	Low	Medium	Medium	Low	Low	Medium	Medium	Ditch leading to outfall
16	Nore	Nore	245694	183387	6	Low	Medium	Low	Medium	Medium	Low	Low	Medium	Medium	Large growth - culvert over ditch (245659 183405)
10	Nore	moutary	243094	105507	0	LOW	Wealdin	LOW	Mediam	Medium		Low	Wedium	Medium	Very clear water downstream of in
16	Nore	Nore Tributary	245694	183387	7	Low	Medium	Low	Medium	Medium	Low	Low	Medium	Medium	channel vegetation
16	Nore	Nore	245694	183387	8	Low	Medium	Low	Medium	Medium	Low	Low	Medium	Medium	Road drain to ditch (245671, 183400)
10	Nore	Nore	243034	100007	0	LOW	Wealdin	LOW	Wediam	Wediam	LOW	LOW	Wediditi	Wedium	Fenced off tree
16	Nore	Tributary	245694	183387	9	Low	Medium	Low	Medium	Medium	Low	Low	Medium	Medium	line bank
17	Nore	Nore Tributary	243529	183965	1	High	Medium	Medium	Medium	High	Low	Medium	High	High	from N8 Road Bridge
17	Nore	Nore Tributary	243529	183965	2	High	Medium	Medium	Medium	High	Low	Medium	Hiah	High	Heavy tree growth looking upstream from bridge
		Nore													
17	Nore	Tributary	243529	183965	3	High	Medium	Medium	Medium	High	Low	Medium	High	High	Litter dumping
17	Nore	Nore Tributary	243529	183965	4	High	Medium	Medium	Medium	High	Low	Medium	High	High	Bare bank on left bank
17	Nore	Nore Tributary	243529	183965	5	High	Medium	Medium	Medium	High	Low	Medium	High	High	N8 looking
17	Nore	Nore Tributary	243529	183965	6	High	Medium	Medium	Medium	High	Low	Medium	High	High	Twin culverts under N8
17	Nore	Nore Tributary	243529	183965	7	High	Medium	Medium	Medium	High	Low	Medium	High	High	Storm drains (243511, 183979)
17	Nore	Nore Tributary	243529	183965	8	High	Medium	Medium	Medium	High	Low	Medium	High	High	Twin culvert outlet (243508, 183976)
		News													View upstream - large garden on left bank. No
18	Nore	Tributary	243139	185596	1	High	High	High	Medium	Medium	Low	Medium	High	High	cuttings on bank
		Nore													
18	Nore	Tributary	243139	185596	2	High	High	High	Medium	Medium	Low	Medium	High	High	Grass cuttings
18	Nore	Nore Tributary	243139	185596	3	High	High	Hiab	Medium	Medium	Low	Medium	High	High	bridge culvert and land drain from
10		moutary	270100	100000	5	i ligit	- iigii	i ligit	Medium	Medium	2011	Weddull	riigii	- ingit	View downstream
18	Nore	Nore Tributary	243139	185596	4	High	High	High	Medium	Medium	Low	Medium	High	High	trom road (animal trampling) -

															fencing (243125, 185615)
18	Nore	Nore Tributary	243139	185596	5	High	High	High	Medium	Medium	Low	Medium	High	High	Discharge (Outfall) - check (disused)
18	Nore	Nore Tributary	243139	185596	6	High	High	High	Medium	Medium	Low	Medium	High	High	Industrial estate above watercourse
19	Nore	Nore Tributary	243811	186655	1	Medium	Medium	Medium	Medium	Low	Low	Low	Medium	Medium	River downstream from road bridge
19	Nore	Nore Tributary	243811	186655	2	Medium	Medium	Medium	Medium	Low	Low	Low	Medium	Medium	Large growth on right bank
19	Nore	Nore Tributary	243811	186655	3	Medium	Medium	Medium	Medium	Low	Low	Low	Medium	Medium	N8 Main Road crosses tributary
19	Nore	Nore Tributary	243811	186655	4	Medium	Medium	Medium	Medium	Low	Low	Low	Medium	Medium	Upstream landuse
19	Nore	Nore Tributary	243811	186655	5	Medium	Medium	Medium	Medium	Low	Low	Low	Medium	Medium	View upstream from bridge
19	Nore	Nore Tributary	243811	186655	6	Medium	Medium	Medium	Medium	Low	Low	Low	Medium	Medium	View of channel
19	Nore	Nore Tributary	243811	186655	7	Medium	Medium	Medium	Medium	Low	Low	Low	Medium	Medium	Culvert under N8
20	Nore	Ballyroan	246698	188695	1	High	High	High	Low	Low	Low	Low	High	High	Downstream from bridge
20	Nore	Ballyroan	246698	188695	2	High	High	High	Low	Low	Low	Low	High	High	Dump yard downstream right bank
20	Nore	Ballyroan	246698	188695	3	High	High	High	Low	Low	Low	Low	High	High	Upstream from bridge
															Flooded field (upstream right bank) with trampling and
20	Nore	Ballyroan	246698	188695	4	High	High	High	Low	Low	Low	Low	High	High	Gunnera
															(upstream right bank) with trampling and
20	Nore	Ballyroan	246698	188695	5	High	High	High	Low	Low	Low	Low	High	High	Gunnera Drain/ditch from
20	Nore	Ballyroan	246698	188695	6	High	High	High	Low	Low	Low	Low	High	High	field downstream right bank
21	Nore	Colt	243347	189837	1	Low	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Downstream from bridge
21	Nore	Colt	243347	189837	2	Low	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Abstraction
21	Nore	Colt	243347	189837	3	Low	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Upstream from
L 1		001	210071	100007	0			mount				2011	modiain	mount	~

21	Nore	Colt	243347	189837	4	Low	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Grazing in field along downstream right bank
22	Nore	Mountain Feady	242042	186957	1	Low	Low	Low	Low	Low	Low	Low	Low	Low	Downstream from bridge
22	Nore	Mountain	242042	186957	2	Low	Low	Low	Low	Low	Low	Low	Low	Low	Upstream from
23	Nore	1 outy	241593	193746		High	Medium	Medium	Low	Low	Low	Low	High	High	Upstream from bridge
23	Nore		241593	193746	2	High	Medium	Medium	Low	Low	Low	Low	High	High	Downstream from bridge
23	Nore		241593	193746	3	High	Medium	Medium	Low	Low	Low	Low	High	High	Trampling into downstream left bank
23	Nore		241593	193746	4	High	Medium	Medium	Low	Low	Low	Low	High	High	Cattle crossing over channel at bridge, downstream
23	Nore		241593	193746	5	Hiah	Medium	Medium	Low	Low	Low	Low	High	High	Cattle crossing over channel at bridge, downstream
24	Nore	Cloncourse Bridge	241188	195438	1	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Upstream from bridge
24	Nore	Cloncourse Bridge	241188	195438	2	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Bridge construction, upstream left bank
24	Nore	Cloncourse Bridge	241188	195438	3	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Road works
24	Nore	Cloncourse Bridge	241188	195438	4	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Clearance into downstream right bank
24	Nore	Cloncourse Bridge	241188	195438	5	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Downstream from bridge
86	Nore	Boston Bridge	234144	177762	1	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Downstream from bridge
86	Nore	Boston Bridge	234144	177762	2	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Downstream left bank
86	Nore	Boston Bridge	234144	177762	3	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Downstream right bank
86	Nore	Boston Bridge	234144	177762	4	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Upstream from bridge
86	Nore	Boston Bridge	234144	177762	5	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Site entrance for motorway works (234125, 177707)

87	Nore	Templequinn Bridge	223212	175544	1	High	High	High	Medium	Low	Medium	Low	High	High	Upstream from bridge
87	Nore	Templequinn Bridae	223212	175544	2	Hiah	Hiah	High	Medium	Low	Medium	Low	High	High	Trampling/crossin g upstream right bank (including outfall)
87	Nore	Templequinn Bridge	223212	175544	3	High	High	High	Medium	Low	Medium	Low	High	High	Trampling/crossin g upstream left bank
87	Nore	Templequinn Bridge	223212	175544	4	High	High	High	Medium	Low	Medium	Low	High	High	Downstream from bridge
87	Nore	Templequinn Bridge	223212	175544	5	High	High	High	Medium	Low	Medium	Low	High	High	Abstraction
87	Nore	Templequinn Bridge	223212	175544	6	High	High	High	Medium	Low	Medium	Low	High	High	Trampling into downstream right bank
87	Nore	Templequinn Bridge	223212	175544	7	High	High	High	Medium	Low	Medium	Low	High	High	Trampling into downstream left bank
88	Nore	Tullyvaulty	228828	168501	1	Medium	High	High	Low	Low	Low	Low	High	High	Upstream from bridge
88	Nore	Tullyvaulty	228828	168501	2	Medium	High	High	Low	Low	Low	Low	High	High	Field ditch, left bank at bridge
88	Nore	Tullyvaulty	228828	168501	3	Medium	High	High	Low	Low	Low	Low	High	High	Downstream from bridge
88	Nore	Tullyvaulty	228828	168501	4	Medium	High	High	Low	Low	Low	Low	High	High	Temporary
88	Nore	Tullyvaulty	228828	168501	5	Medium	High	High	Low	Low	Low	Low	High	High	Trees felled, downstream left bank
	Noro	Pivor Coul	220020	166704	1	High	Modium	Modium	Low	Low	Low	Low	Modium	Liab	Upstream from
89	Nore	River Goul	228302	166794	2	High	Medium	Medium	Low	Low	Low	Low	Medium	High	Bridge construction,
80	Noro	River Goul	228302	166794	2	High	Medium	Medium	Low	Low	Low	Low	Medium	High	Bridge construction,
0			220302	100734		Tign	Weddin	Wediam	Low	2000		2000		Tign	Bridge construction, downstream left
89	Nore	River Goul	228302	166794	4	High	Medium	Medium	Low	Low	Low	Low	Medium	High	bank
	Noro	Diver Card	000000	160704	F	Lliab	Madium	Madium	Low	Low	Low	Low	Modium	Lligh	bridge construction, downstream left
89	inore	River Goul	228302	166794	5	High	ivieaium	ivieaium	LOW	LOW	LOW	LOW	ivieaium	High	Downstream from
89	Nore	River Goul	228302	166794	6	High	Medium	Medium	Low	Low	Low	Low	Medium	High	bridge
90	INORE		226932	166323	1	High	iviedium	iviedium	LOW	LOW	LOW	LOW	iviedium	нıgn	Downstream from

															bridge
															Upstream from
90	Nore		226932	166323	2	High	Medium	Medium	Low	Low	Low	Low	Medium	High	bridge
															Bridge
															construction,
															upstream right
90	Nore		226932	166323	3	High	Medium	Medium	Low	Low	Low	Low	Medium	High	bank
															Forestry
90	Nore		226932	166323	4	High	Medium	Medium	Low	Low	Low	Low	Medium	High	downstream
						I.									Upstream from
91	Nore	Borrismore	230086	163522	1	Low	Medium	Medium	Low	Low	Low	Low	Medium	Medium	bridge
															Bridge
01	Neve	Derriemens	000000	100500		Law	Maaliuma	Madium	Law	Law	Law	Law	Madium	Maaliuma	construction,
91	INORE	Borrismore	230086	163522	2	LOW	Medium	wealum	LOW	LOW	LOW	LOW	Medium	Medium	Upstream left bank
01	Neve	Derriemens	000000	100500		Law	Maaliuma	Madium	Law	Law	Law	Law	Madium	Maaliuma	Downstream from
91	INORE	Borrismore	230086	163522	3	LOW	Medium	wealum	LOW	LOW	LOW	LOW	Medium	Medium	bridge, left bank
															Downstream on
01	Noro	Porriemore	220086	162522	1	Low	Modium	Modium	Low	Low	Low	Low	Modium	Modium	(220100 162551)
	NOTE	Dominiore	230080	103522	4	LOW	Medium	wealum	LOW	LOW	LOW	LOW	Medium	Medium	(230109, 103001)
															right bank
91	Nore	Borrismore	230086	163522	5	Low	Medium	Medium	Low	Low	Low	Low	Medium	Medium	(230109 163551)
	11010	Bernemere	200000	TOODEE		2011	Modiam	moulain	2011	2011	2011	2011	inicalarii	moaran	(200100, 100001)
		Urlingford													Bridge
92	Nore	Iown	228189	163228	1	Medium	Medium	Medium	Low	Medium	Low	Low	Medium	Medium	construction
		Urlingford													
92	Nore	Town	228189	163228	2	Medium	Medium	Medium	Low	Medium	Low	Low	Medium	Medium	Upstream
		Urlingford													Abstractions at
92	Nore	Town	228189	163228	3	Medium	Medium	Medium	Low	Medium	Low	Low	Medium	Medium	hridae
	11010		220100	TOOLLO	0	modiam	Modiam	moulain	2011	Modiani	2011	2011	inicalarii	moaran	bhugo
		Urlingford													<u></u>
92	Nore	Iown	228189	163228	4	Medium	Medium	Medium	Low	Medium	Low	Low	Medium	Medium	Chicks
		Urlingford													Outfall from left
92	Nore	Town	228189	163228	5	Medium	Medium	Medium	Low	Medium	Low	Low	Medium	Medium	bank
93	Nore		229227	159327	1	Medium	Medium	Medium	Low	Low	Low	Low	High	High	Upstream bridge
							meanam		2011	2011	2011	2011	g.:	g.i	Cattle
93	Nore		229227	159327	2	Medium	Medium	Medium	Low	Low	Low	Low	Hiah	Hiah	trampling/crossing
			_							-	-	-			Downstream from
93	Nore		229227	159327	3	Medium	Medium	Medium	Low	Low	Low	Low	High	High	bridge
													Ŭ		Bridge
93	Nore		229227	159327	4	Medium	Medium	Medium	Low	Low	Low	Low	High	High	construction
															Ditch from
93	Nore		229227	159327	5	Medium	Medium	Medium	Low	Low	Low	Low	High	High	adjacent field
													Ĭ		Unknown wall
										1			1	1	structure,
										1			1	1	downstream right
93	Nore		229227	159327	6	Medium	Medium	Medium	Low	Low	Low	Low	High	High	bank
															Road/Track
94	Nore	Sally Bog	227542	158113	1	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	drainage, left bank

															(227542, 158077)
															Upstream from
0.1	News	O alles Dans	007540	150110	0	Maaliuma	Maallowe	Maalluura	1	1	1	1	Ma allower	Ma allowed	drainage, left bank
94	Nore	Sally Bog	227542	158113	2	Medium	Medium	Medium	LOW	LOW	LOW	LOW	Medium	Medium	(227542, 158077)
															bridge left bank
94	Nore	Sally Bog	227542	158113	3	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	(227542, 158077)
			-						-		-	-			Field entrance,
															right bank at
94	Nore	Sally Bog	227542	158113	4	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	bridge
															Downstream from
94	Noro	Sally Bog	227542	159113	5	Modium	Modium	Modium	Low	Low	Low	Low	Modium	Modium	bridge (227542, 158113)
54	NOTE	Sally Dog	221342	130113	5	Medium	INEGIUITI	Medium	LOW	LOW	LOW	LOW	Wedium	Medium	Abstraction
															(sewer) in field off
															left bank,
94	Nore	Sally Bog	227542	158113	6	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	downstream
					_										Drainage off lane
94	Nore	Sally Bog	227542	158113	7	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	(227536, 158128)
95	Noro	Trabaa	227044	160546	- 1	Modium	Modium	Modium	Low	Low	Low	Low	High	High	Upstream from
	NOTE	Tranya	227344	100340		Medium	INEGIUITI	Medium	LOW	LOW	LOW	LOW	Tilgit	riigii	Upstream from
95	Nore	Trahga	227944	160546	2	Medium	Medium	Medium	Low	Low	Low	Low	High	High	bridge
		Ŭ											Ű	Ŭ	Downstream from
95	Nore	Trahga	227944	160546	3	Medium	Medium	Medium	Low	Low	Low	Low	High	High	bridge
															Garden on right
95	Nore	Irahga	227944	160546	4	Medium	Medium	Medium	Low	Low	Low	Low	High	High	bank upstream
95	Noro	Trabaa	227044	160546	5	Modium	Modium	Modium	Low	Low	Low	Low	High	High	Land piled
	NOTE	Tranya	227344	100340	5	Medium	INEGIUITI	Medium	LOW	LOW	LOW	LOW	Tilgit	Tiigii	Bridge
95	Nore	Trahga	227944	160546	6	Medium	Medium	Medium	Low	Low	Low	Low	Hiah	Hiah	construction
		Ballydavin											Ŭ	Ŭ	Lipstroam from
96	Nore	Bridge	231848	173999	1	Low	Low	Low	Low	Low	Medium	Low	Low	Medium	bridge
	11010	Dilago	201010	170000	•	2011	2011	2011	2011	2011	moulain	2011	2011	modiam	D i (
96	Noro	Ballydavin	2218/8	172000	2	Low	Low	Low	Low	Low	Modium	Low	Low	Modium	Downstream from
	NOTE	Bridge	231040	175555	2	LOW	LOW	LOW	LOW	LOW	Wealum	LOW	LOW	Medium	Abstraction huts
		Ballvdavin													adjacent to small
96	Nore	Bridge	231848	173999	3	Low	Low	Low	Low	Low	Medium	Low	Low	Medium	stone weir
															Abstraction huts
		Ballydavin													adjacent to small
96	Nore	Bridge	231848	173999	4	Low	Low	Low	Low	Low	Medium	Low	Low	Medium	stone weir
															Cattle trough
		Ballydavin													(upstream on left
96	Nore	Bridge	231848	173999	5	Low	Low	Low	Low	Low	Medium	Low	Low	Medium	bank)
		Achmacart													Linstream from
97	Nore	Bridge	233029	173949	1	Medium	Medium	Medium	High	Low	Low	High	High	High	bridge

97	Nore	Aghmacart Bridge	233029	173949	2	Medium	Medium	Medium	High	Low	Low	High	High	High	Weir/barrier (232975, 173916)
97	Nore	Aghmacart Bridge	233029	173949	3	Medium	Medium	Medium	High	Low	Low	High	High	High	Weir/barrier (232975, 173916)
97	Nore	Aghmacart Bridge	233029	173949	4	Medium	Medium	Medium	High	Low	Low	High	High	High	Weir/barrier (232975, 173916)
97	Nore	Aghmacart Bridge	233029	173949	5	Medium	Medium	Medium	High	Low	Low	High	High	High	Upstream from Weir
97	Nore	Aghmacart Bridge	233029	173949	6	Medium	Medium	Medium	High	Low	Low	High	High	High	Leech
97	Nore	Aghmacart Bridge	233029	173949	7	Medium	Medium	Medium	High	Low	Low	High	High	High	Leech
97	Nore	Aghmacart Bridge	233029	173949	8	Medium	Medium	Medium	High	Low	Low	High	High	High	Construction of bridge
97	Nore	Aghmacart Bridge	233029	173949	9	Medium	Medium	Medium	High	Low	Low	High	High	High	Downstream from bridge
97	Nore	Aghmacart Bridge	233029	173949	10	Medium	Medium	Medium	High	Low	Low	High	High	High	Second channel? Downstream from bridge (233048, 174007)
98	Nore	Newtown	237397	175778	1	High	Medium	Medium	Medium	Low	Low	Low	Medium	High	Upstream from bridge
98	Nore	Newtown	237397	175778	2	High	Medium	Medium	Medium	Low	Low	Low	Medium	High	Upstream from bridge
98	Nore	Newtown	237397	175778	3	High	Medium	Medium	Medium	Low	Low	Low	Medium	High	Possible trampling and crossing upstream
98	Nore	Newtown	237397	175778	4	High	Medium	Medium	Medium	Low	Low	Low	Medium	High	Downstream from bridge (limited visual)
98	Nore	Newtown	237397	175778	5	High	Medium	Medium	Medium	Low	Low	Low	Medium	High	Ford downstream
99	Nore	Glashagal Bridge	244755	174238	1	High	High	High	Low	Low	Low	Low	High	High	Downstream from bridge
99	Nore	Glashagal Bridge	244755	174238	2	High	High	High	Low	Low	Low	Low	High	High	Upstream from bridge
99	Nore	Glashagal Bridge	244755	174238	3	High	High	High	Low	Low	Low	Low	High	High	Trampling into left bank (upstream of bridge)
99	Nore	Glashagal Bridge	244755	174238	4	Hiah	Hiah	Hiah	Low	Low	Low	Low	High	Hiah	Trampling into left bank (upstream of bridge)
100	Nore	Ballyragget	244574	172711	1	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Upstream from
100	News	Dalluma	044574	170711		Medium	Mad	Mauli					Mal	Mediaill	Garden plantation
100	INORE	Ballyragget	2445/4	1/2/11	2	Medium	iviedium	iviedium	LOW	LOW	LOW	LOW	Medium	wealum	- upstream on left

1															bank
															Downstream from
100	Nexe	Dellument	044574	170711	0	Madium	Madium	Madiuma	Law	Law	Law	Law	Madium	Madium	bridge (under
100	Nore	Ballyraggel	244574	1/2/11	3	wealum	wealum	wealum	LOW	LOW	LOW	LOW	wealum	wealum	Trampling
															upstream to
															downstream, left
100	Nore	Ballyragget	244574	172711	4	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	bank
100	Nore	Ballyragget	244574	172711	5	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Abstraction to
100	Nore	Danyragger	244074	172711	0	Wealdin	Wealan	Wealdin	LOW	2011	LOW	2011	Weddiath	Wealdin	Abstraction to
100	Nore	Ballyragget	244574	172711	6	Medium	Medium	Medium	Low	Low	Low	Low	Medium	Medium	cattle water trough
		Tributory of													
		Mountain													
101	Nore	River	36677	97929	1	Low	Low	Low	Low	Low	Low	Low	Low	Low	
		Tributory of													
		Mountain													
101	Nore	River	36677	97929	2	Low	Low	Low	Low	Low	Low	Low	Low	Low	
		Tributory of													
		Mountain			-										
101	Nore	River	36677	97929	3	Low	Low	Low	Low	Low	Low	Low	Low	Low	
		Tributory of													
101		Mountain	00077	07000											
101	INORE	River	36677	97929	4	LOW	LOW	LOW	LOW	LOW	LOW	LOW	LOW	LOW	
		Tributory of													
101	Noro	Mountain	26677	07020	F	Low	Low	Low	Low	Low	Low	Low	Low	Low	
101	Nore		24127	97929	5 1	Low	Low	Low	Low	Low	Low	Low	Low	Modium	
102	Nore	Castletown	24127	92000	1	Medium	Low	Low	Low	Low	Low	Medium	Low	Modium	
102	Nore	Castletown	34127	92000	2	Medium	Low	Low	LOW	Low	Low	Medium	LOW	Modium	
102	Nore	Castletown	24127	02066	3	Medium	Low	Low	Low	Low	Low	Medium	Low	Modium	
102	Nore	Castletown	34127	92000	5	Medium	Low	Low		Low	Low	Medium	Low	Modium	
102	Nore	Castletown	34127	92000	5	Medium	Low	Low	Low	Low	Low	Medium	Low	Medium	
102	Nore	Castletown	34127	92000	7	Medium	Low	Low		Low	Low	Medium	Low	Modium	
102	Nore	Castletown	34127	92000	8	Medium	Low	Low	Low	Low	Low	Medium	Low	Medium	
102	Nore	Castletown	34127	92066	0	Medium	Low	Low	Low	Low	Low	Medium	Low	Modium	
102	Nore	Castletown	34127	92000	10	Medium	Low	Low	Low	Low	Low	Medium	Low	Medium	
102	Nore	Castletown	34127	92000	10	Medium	LOW	LOW	LOW	Low	Low	Medium	LOW	Medium	
102	Noro	Castletown	34127	92000	10	Modium	Low	Low		Low		Modium		Modium	
102	Nore	Castletown	2/107	92000	12	Medium				LOW		Medium	Low	Medium	
102	Nore	Castletown	3/127	92000	1/	Medium	Low	Low	Low	Low		Medium		Medium	
102	11010	Jastieluwii	34127	92000	14	weaturn	LOW	LUW	LUW	LOW					(unsure where
SP22	Nore		18949	87391	1										exactly) ? @ the

		I								abbey
										(unsure where exactly)? @ the
SP22	Nore		18949	87391	2					abbey
										5 photos of private
										peat cutting -
										some areas are
										less than 50
										hectares and large
										cutting rest mainly
	Nore		18953	87393	1					private
										5 photos of private
										peat cutting -
										some areas are
										besteres and large
										outting root mainly
SED3	Noro		18053	87303	2					
0120	NOIE		10355	07595	2					5 photos of private
										peat cutting -
										some areas are
										less than 50
										hectares and large
										cutting rest mainly
SP23	Nore		18953	87393	3					private
										5 photos of private
										peat cutting -
										some areas are
										less than 50
										hectares and large
										cutting rest mainly
SP23	Nore		18953	87393	4					private
										5 photos of private
										peat cutting -
										some areas are
										less than 50
										nectares and large
6000	Noro		19052	97202	F					cutting rest mainly
3523	NOLE		10933	01393	5					5 photos of privato
										some areas are
										less than 50
										hectares and large
										cutting rest mainly
SP23	Nore		18953	87393	6					private
					Ť					5 photos of private
										peat cutting -
										some areas are
SP23	Nore		18953	87393	7					less than 50

									hectares and large cutting rest mainly private
Site 4	Nore	17637	85729	9					2 of drainage from bog followed this. Leads into stream between 2 bogs along road. No treatment of discharge anywhere - no sedimentation
Site 4	Nore	17637	85729	10					2 of drainage from bog followed this. Leads into stream between 2 bogs along road. No treatment of discharge anywhere - no sedimentation
Site 4	Nore	17633	85800	11					As stream enters Nore,stream is completely coloured - dark blue/dark brown in peat sediment. There is a visible plune as it enters Nore see photos 1-4 of plune & 1-5 of bog
Site 4	Nore	17633	85800	12					As stream enters Nore,stream is completely coloured - dark blue/dark brown in peat sediment. There is a visible plune as it enters Nore see photos 1-4 of plune & 1-5 of bog
Site 4	Nore	17633	85800	13					As stream enters Nore, stream is completely coloured - dark blue/dark brown in peat sediment. There is a visible plune as it enters

									Nore see photos 1-4 of plune & 1-5 of bog
Site 4	Nore	17633	85800	14					As stream enters Nore,stream is completely coloured - dark blue/dark brown in peat sediment. There is a visible plune as it enters Nore see photos 1-4 of plune & 1-5 of bog
Site 4	Nore	17233	85718	20					Nore bridge d/s of large bog. Fine grey sediment (not peat) significant algae on river bed from nutrients possibly peatlands. Compare to u/s station i.e. site 2
Site 4	Nore	17233	85718	21					Nore bridge d/s of large bog. Fine grey sediment (not peat) significant algae on river bed from nutrients possibly peatlands. Compare to u/s station i.e. site 2
Site 4	Nore	17233	85718	22					Nore bridge d/s of large bog. Fine grey sediment (not peat) significant algae on river bed from nutrients possibly peatlands. Compare to u/s station i.e. site 2
Site 4	Nore	17233	85718	23					Nore bridge d/s of large bog. Fine grey sediment (not peat) significant algae on river bed from nutrients

		I		I I		1		1		I	1	possibly
												peatlands
												Compare to u/s
												station i.e. site 2
												u/s photos from
SP1	Nore		7988	81593	1							bridge
												u/s photos from
SP1	Nore		7988	81593	2							bridge
												u/s photos from
SP1	Nore		7988	81593	3							bridge
												d/s from bridge
												looking into
												plantation
												catchment
SP1	Nore		7988	81593	4							boundary
												Forestry -
												plantation
												deforested - land
												turned to scrub -
												broadleaf not near
												stream low risk to
												water quality. Co-
												op centenery co-
												op tree standing
												fertiliser in yard.
0.00	Nexe		0004	00007	4							Yard Is not hard
572	Nore		9284	80687		 						standing.
Site 1	Nore	Clonakenny	511260	80474	1	 						u/s from bridge
Site 1	Nore	Clonakenny	511260	80474	2							d/s from bridge
												d/s RB ford across
												to farmyard
Site 1	Nore	Clonakenny	511310	80492	3							(511310, 80492)
												d/s R.B ford close
Site 1	Nore	Clonakenny	511260	80474	4							up with poaching
					_							at ford looking u/s
Site 1	Nore	Clonakenny	511260	80474	5							at the weir
												close up of weir
04.1	News	0	511000	00474	0							(d/s of bridge
SITE	Nore	Cionakenny	511260	80474	6	-						major barrier)
												d/s LB photo
Cite 1	Nexe	Clanakanny	511000	00474	7							looking at pipe
Sile I	Nore	Cionakenny	511260	80474	1	 						with well
Site 1	Noro	Clanakanny	E11000	90474	0							abstraction
Sile I	NULE	Gionakenny	011200	00474	0	 	 					Hard ombarkment
Sito 1	Noro	Clonakonny	511260	80474	0							d/s
	NUTE		511200	00474	9							u/5
Site 1	Nore	Clonakenny	511260	80474	10					ļ		tarm d/s L.B
Site 1	Nore	Clonakenny	511320	80493	11							land drain RB d/s
Site 1	Nore	Clonakenny	511324	80497	12		 					R grazing LB d/s

Site 1	Nore	Clonakenny	511343	80493	13					land drain further
		Clonakenny	511428/21	80484/1						poaching d/s LB. Note mats of gil algae & sig silt (211428, 180482) 2 sets of co-
Site 1	Nore	Clonakenny	1428	80482	14					ordinates used? poaching at gates RB d/s @ 511450, 80475. LB u/s from bridge trampling - horses, access to river. Perforated discharge pipe LB u/s from bridge fine sediment &
Site 1	Nore	Clonakenny	211450	180475	15					salt on river bed
Site 1	Nore	Clonakenny	211230	180457	16					effluent possible pipe u/s @ 511230, 80457
Site 1	Nore	Clonakenny	211230	180457	17					abstraction pipe with footvalve u/s @ 511230, 80457
Site 1	Nore	Clonakenny	211230/21 1260/2114 50	180474/ 180474/ 180475	18					starting pt far west u/s = (211230, 180457) middle pt @ bridge = (211260, 180474) end pt fartwest d/s = (211450, 180475)
SP 3	Nore	Tributory to catchment	211648	181711	1					u/s photo from bridge
SP 3	Nore	Tributory to catchment	211648	181711	2					poaching u/s LB
SP 3	Nore	Tributory to catchment	211643	181719	3					ford crossing u/s of bridge @ 211643/181719
SP 3	Nore	Tributory to catchment	211648	181711	4					2 x culverted pipes under bridge
SP 4	Nore	Tributory to Nore	211992	183257	1					u/s of bridge
SP 4	Nore	Tributory to Nore	211992	183257	2					d/s of bridge
SP 4	Nore	Tributory to Nore	211992	183257	3					Bridge apron

1	1					1		1	I	l	1	Boxculverts under
		Tributory to										bridge. Pipe
SP 4	Nore	Nore	211992	183257	4	 						culvert flows under
												further
	Neve	Tributory to	010000	100007	F							downstream @
3F 4	Nore	nore	212020	103227	5	 						212020/103227
												sand
												pit/excavation @
				18407/8								214400, 18407,
SP 5	Nore		214400	3235	1							83235
												Overview of sand
0.0.5			014400	18407/8	0							pit not in use on
SP 5	Nore		214400	3235	2	-						the day
												view from blacknill
												Timonev bog -
												large central plain
												of bog seems
				no co-								entact with scrub.
			no co-	ordinate								Private peat
00.0	Nam	There are been	ordinates	S								cutting - small
586	Nore	Timoney bog	entered	entered	I	 						scale along edges
			no co-	ordinate								
			ordinates	s								View of Timonev
SP 6	Nore	Timoney bog	entered	entered	2							bog
												Close up of
												Timoney bog
				no co-								centre of bog
			no co-	ordinate								Edge of bog out
SP 6	Nore	Timoney bog	entered	entered	3							with hopper.
		Currency cog										u/a nhata fram
Sito 2	Noro	Bridge	214204	182000	1							u/s photo from
Sile 2	NOTE	Dhuge	214204	102300	1							d/s photo from
												bridge with mild
Site 2	Nore		214204	182900	2							channel island
												2 x culverted pipes
												u/s L.B - 1 for land
												drainage possibly
												- 2nd tributory
												beside/under road
												@ 214200.
Site 2	Nore		214200	182902	3							182902
												box culverts under
				10000								bridge 214210 RB
Site 2	Nore		214210	182901	4	 						d/s 182901
Site 2	Nore		214210	182901	5							poaching RB d/s

							1					1	214210, 182901
													managed ditch
													looking R.B u/s
Site 2	Nore		214204	182900	6								(d/s of bridge)
													managed ditch
													R.B flowing into
Cito 0	Noro		014007	192069	7								river @ 214287,
Sile 2	Nore		214207	103000	/				-			 -	Proceuro conifor
													plantation
													stopping point
													(217245, 183366)
													Forestry - conifer
													plantation some
													cut but mostly
SP 7	Nore		217245	183366	1								entact
		o											Start of Timoney
00.0	News	Start of	017750	101010									bog - Private Land
528	Nore	Timoney bog	217756	184243	I								Owner T.Deegan
		Start of											bog - Privato Land
SP 8	Nore	Timonev bog	217756	184243	2								Owner T Deegan
01 0	Noic	Timoney bog	217700	104240	L								Start of Timonev
		Start of											bog - Private Land
SP 8	Nore	Timoney bog	217756	184243	3								Owner T.Deegan
													Start of Timoney
		Start of											bog - Private Land
SP 8	Nore	Timoney bog	217756	184243	4								Owner T.Deegan
													photo of turf -
													Other Contact
													(087-3117008) any that sayos
													plots of turf -
		Start of											Private land owner
SP 8	Nore	Timoney bog	217543	184875	5								T.Deegan
													same grid of turf
													cutting - Private
		Start of											Land owner
SP 8	Nore	Timoney bog	217543	184875	6								T.Deegan
		Start of											Private Land
SP 8	Nore	Timoney bog	217543	184875	7								Owner - T.Deegan
		Start of											Private Land
SP 8	Nore	Timonev bog	217543	184875	8								Owner - T.Deegan
		Start of			-			1					Brivata Land
SP 8	Nore	Timonev bog	2175/2	18/1975	۵				1				Owner - T Deegan
510	11010		21/040	10+073	3			1	1				
0.0.0		Start of	047510	10.1075	10				1				Private Land
528	INORE	Timoney bog	21/543	1848/5	10		1			1	1	1	Owner - I.Deegan

Site 3	Nore	Timoney bog - Tributary of the Nore	217508	185052	1									Stream diverting away from roadside
	Nore	Timoney bog - Tributary of the Nore	217508	185052	2									Overview of stream above
	Nore	Timoney bog - Tributary of the Nore	217497	185612	3									Culverted down looking u/s end out of tributory @ 217497, 185612
	Nore	Timoney bog - Tributary of the Nore	217508	185052	4									End point of tributory looking d/s
SP 9	Nore		217520	185015	1									Culverted drainage connecting drainage under road near peat across to area of tributory @ 217520, 185015 - photo of pipe
Site 4 KF	Nore	Nore bridge	217251	185698	1	Low	High	High	Low	Low	Low	Low	Low	Upstream shot
Site 4 KE	Noro	Noro bridgo	017051	195609		Low	High	Liab	Low	Low	Low	Low	Low	Downstream shot
Sile 4 KF	NOTE	Note bridge	217231	100090	2	LOW	High	nigri	LOW	LOW	LOW	LOW	LOW	Poaching
Site 4 KF	Nore	Nore bridge	217251	185698	3	Low	High	High	Low	Low	Low	Low	Low	downstream on left bank
Site 4 KF	Nore	Nore bridge	217251	185698	4	Low	High	High	Low	Low	Low	Low	Low	View from bank
Site 4 KF	Nore	Nore bridge	217251	185698	5	Low	High	High	Low	Low	Low	Low	Low	Excessive trampling and poaching along river bank
Site 4 KF	Nore	Nore bridge	217251	185698	6	Low	High	High	Low	Low	Low	Low	Low	Construction adjacent to river
Site 4 KF	Nore	Nore bridge	217251	185698	7	Low	High	High	Low	Low	Low	Low	Low	Construction adjacent to river
Site 5 KF	Nore	Taken at road bridge	221533	188718	1	Medium	Low	Low	Low	Low	Medium	Low	Low	Upstream shot from bridge
Site 5 KF	Nore		221533	188718	2	Medium	Low	Low	Low	Low	Medium	Low	Low	Downstream view from bridge
														Box culvert under
Site 5 KF	Nore		221533	188718	3	Medium	Low	Low	Low	Low	Medium	Low	Low	abstraction pipes
Site 5 KF	Nore		221533	188718	4	Medium	Low	Low	Low	Low	Medium	Low	Low	Abstraction pipes
Site 5 KF	Nore		221533	188718	5	Medium	Low	Low	Low	Low	Medium	Low	Low	Abstraction pipes

														Poaching on river
Site 5 KF	Nore		221533	188718	6	Medium	Low	Low	Low	Low	Medium	Low	Low	bank
														Ford crossing
Site 5 KF	Nore		221533	188718	7	Medium	Low	Low	Low	Low	Medium	Low	Low	(animal)
														Box culvert under
Site 5 KF	Nore		221533	188718	8	Medium	Low	Low	Low	Low	Medium	Low	Low	second bridge
														View upstream
	News		001004	100000	0		1	1	1	1	Maalloura	1	1	from second
SILE 5 KF	INORE		221604	188663	9	iviedium	LOW	LOW	LOW	LOW	Medium	LOW	LOW	Dridge Vehicular access
Sito 5 KE	Noro		221522	100710	10	Modium	Low	Low	Low	Low	Modium	Low	Low	to river obannol
Sile 5 KF	NOTE		221000	100710	10	weatum	LOW	LOW	LOW	LOW	Medium	LOW	LOW	Lipstream shot
SP 10	Nore	New bridge	223727	187851	1	Low	Medium	High	High	Low	Low	Low	Low	taken from bridge
01 10		How bridge	220727	107001		2011	Modiani	Tign	- ingli	2011	2011	2011	2011	Upstream shot
SP 10	Nore	New bridge	223727	187851	2	Low	Medium	High	High	Low	Low	Low	Low	taken from bridge
		J. J						Ŭ						Trampling &
														poaching on right
SP 10	Nore	New bridge	223727	187851	3	Low	Medium	High	High	Low	Low	Low	Low	bank upstream
														Drainage coming
														from settlement
SP 10	Noro	Now bridge	222227	107051	1	Low	Modium	High	High	Low	Low	Low	Low	lagoon upstream
SF TU	NOTE	New blidge	223121	167651	4	LOW	weatum	піўп	пığı	LOW	LOW	LOW	LOW	Macrophyto
SP 10	Nore	New bridge	223727	187851	5	Low	Medium	High	High	Low	Low	Low	Low	growth
SP 10	Nore	New bridge	223727	187851	6	Low	Medium	High	High	Low	Low	Low	Low	Bridge Structure
SP 10	Nore	New bridge	223727	197951	7	Low	Modium	High	High	Low	Low	Low	Low	Bridge Structure
51 10	NOTE	New blidge	225121	107031	1	LOW	Wedium	Tilgti	riigii	LOW	LOW	LOW	LOW	Culverted
														drainage from
														settlement pond
														which flows into
SP 10	Nore	New bridge	223727	187851	8	Low	Medium	High	High	Low	Low	Low	Low	stream
Site 6 KF	Nore		225292	187648	1	Medium		Medium	Low	Low	Low	Medium	Low	View downstream
														View looking
Site 6 KF	Nore		225336	187678	2	Medium		Medium	Low	Low	Low	Medium	Low	downstream
			005000	107070	0			N P		1.				View upstream
Site 6 KF	Nore		225336	18/6/8	3	Medium		Medium	LOW	LOW	Low	Medium	LOW	from road bridge
Site 6 KF	Nore		225336	187678	Л	Medium		Medium	Low	Low	Low	Medium	Low	from road bridge
SILE O KI	NOTE		220000	10/0/0	4	Medium	1	Medium	LOW	LOW	LOW	Medium	LOW	Lipstream shot
Site 7 KF	Nore	Erkina Biver	226181	180872	1	Medium	Low	Low	High	High	Low	Low	Medium	from bridge
Cite / Iti			220101			moulant		2011	g	g.:	2011	2011	inculant	Downstream shot
Site 7 KF	Nore	Erkina River	226181	180872	2	Medium	Low	Low	High	High	Low	Low	Medium	from bridge
									-					Land drains
														entering on left
Site 7 KF	Nore	Erkina River	226170	180877	3	Medium	Low	Low	High	High	Low	Low	Medium	bank upstream
														Poaching
Sito 7 KE	Noro	Erkina Biyor	226170	180877	Л	Modium	Low	Low	High	High	Low	Low	Modium	upstream on left
	Nore		220170	100077	4		LOW	LOW	nign Lliais		LOW	LOW		Dalik Duides Otward
SILE / KF	INORE	Erkina River	226170	1808//	5	ivieaium	LOW	LOW	High	нıgn	LOW	LOW	ivieaium	Bridge Structure

														Bridge apron
Site 7 KF	Nore	Erkina River	226170	180877	6	Medium	Low	Low	High	High	Low	Low	Medium	bank
Site 7 KF	Nore	Erkina Biver	226170	180877	7	Medium	Low	Low	High	High	Low	Low	Medium	Bridge apron and culvert
			220170	1000//	,	Modiam	2011	2011	- ingri	- ingit	2011	2011	moulan	Looking
	Noro	Erking Divor	006750	190166	- 1	Madium	Low	Low	Low	Lliab	Low	Low	Madium	downstream from
SILEOKF	Nore		220755	100100	1	wealum	LOW	LOW	LOW		LOW	LOW	Medium	Looking
														downstream from
														bridge,
Site 8 KF	Nore	Erkina River	226753	180166	2	Medium	Low	Low	Low	High	Low	Low	Medium	house extension
														Gate of pub/house
Site 9 KE	Noro	Erking Divor	226752	100105	2	Modium	Low	Low	Low	High	Low	Low	Modium	which leads to
SILE O KF	nore		220752	100125		wealum	LOW	LOW	LOW	nigii	LOW	LOW	Medium	Faryard on right
														bank downstream
Site 8 KF	Nore	Erkina River	226752	180125	4	Medium	Low	Low	Low	High	Low	Low	Medium	overlooking river
Site 8 KF	Nore	Erkina River	226752	180125	5	Medium	Low	Low	Low	High	Low	Low	Medium	arowth in channel
								_						Drainage pipe
Site 8 KF	Nore	Erkina River	226752	180125	6	Medium	Low	Low	Low	High	Low	Low	Medium	from yard
Site 8 KF	Nore	Erkina River	226752	180125	7	Medium	Low	Low	Low	High	Low	Low	Medium	background
														Second outlet pipe
Site 8 KF	Nore	Erkina River	226752	180125	8	Medium	Low	Low	Low	High	Low	Low	Medium	from yard
														vard with fine silt
														build up in the
Site 8 KF	Nore	Erkina River	226752	180125	9	Medium	Low	Low	Low	High	Low	Low	Medium	channel
														towards bridge
														with bare earth on
Site 8 KF	Nore	Erkina River	226749	180168	10	Medium	Low	Low	Low	High	Low	Low	Medium	the right bank
														View of bank where
														trampling/poachin
Site 8 KF	Nore	Erkina River	226752	180125	11	Medium	Low	Low	Low	High	Low	Low	Medium	g has taken place.
Site 8 KF	Nore	Erkina Biver	226749	180189	12	Medium	Low	Low	Low	High	Low	Low	Medium	Straightened
0.0001.0						inoulum	2011	2011	2011				linearan	Looking upstream
														towards Mooneys
														channel
														morphological
Site 8 KF	Nore	Erkina River	226745	180239	13	Medium	Low	Low	Low	High	Low	Low	Medium	altered
a 1. b 1.5		Main channel					Ι.	.				.		View upstream
Site 9 KF	Nore	Erkina River	226677	178754	1	Low	Low	Low	Low	Low	Low	Low	Low	from bridge

1	1	1				1		1	1	1			1	1	
Site 9 KF	Nore	Main channel Erkina River	226677	178754	2	Low	Low	Low	Low	Low	Low	Low	Low	۱ ۲	/iew downstream from bridge
Site 9 KF	Nore	Main channel Frkina Biver	226677	178754	3	Low	Low	Low	Low	Low	Low	Low	Low	F	Poaching on right
	11010	Main alternat	220077	110101	0	2011	2011	2011	2011	2011	2011	2011	2011	~	zanik upotroani
Site 9 KF	Nore	Erkina River	226677	178754	4	Low	Low	Low	Low	Low	Low	Low	Low	E	Bridge Structure
Site 9 KF	Nore	Main channel Erkina River	226677	178754	5	Low	Low	Low	Low	Low	Low	Low	Low		Freatment works
Site 10 KF	Nore	Tributary of Erkina Biver	228038	178323	1	Low	High	Low	Low		Low	High	High	L	_ooking upstream
Site 10 KF	Nore	Tributary of	228038	178323	2	Low	High	Low	Low		Low	High	High	L	Looking Jownstream from
One TO IN	Nore		220000	170020	~ ~	LOW	riigii	LOW	LOW		LOW	Tiigii	riigiti		Outfall pipe -
Site 10 KF	Nore	Tributary of Erkina River	227985	178317	3	Low	High	Low	Low		Low	High	High	p e	oossible sewage
		Tributary of												9	Second outfall
Site 10 KF	Nore	Erkina River	228036	178317	4	Low	High	Low	Low		Low	High	High	p	oipe
Site 10 KF	Nore	Tributary of Erkina River	228036	178310	5	Low	High	Low	Low		Low	High	High		Third outfall pipe
		Tributary of					Ŭ								
Site 10 KF	Nore	Erkina River	228039	178297	6	Low	High	Low	Low		Low	High	High	5	Sewage pipe
														5	Second sewage
Sito 10 KE	Noro	Tributary of Erking River	228030	178207	7	Low	High	Low	Low		Low	High	High	Г Г	bipe upstream on
Site TO KI	nore		220039	170237	/	LOW	riigii	LOW	LOW		LOW	Tilgit	riigh		
Site 10 KF	Nore	Fributary of Erkina River	228046	178252	8	Low	High	Low	Low		Low	High	High		Hiver culverted
One TO IN	Note		220040	170232	0	LOW	Tilgit	LOW	LOW		LOW	riigii	riigit		
														c	downstream on
Sito 10 KE	Noro	Tributary of	228046	170050	0	Low	High	Low	Low		Low	High	High	r	ight bank from
SILE TO KE	nore		220040	170202	9	LOW	nigii	LOW	LOW		LOW	Fight	Figh		ooking from right
														t	bank at in channel
		T 11 1 1												s	structure. Possible
Site 10 KF	Nore	Frkina River	228052	178354	10	Low	Hiah	Low	Low		Low	High	High		prinking water
		Enting Filter	LLOUOL	170001	10	2011	i ngit	2011	2011		2011	- ingit	- ingri		_arge
														i	mpoundment
Site 10 KF	Nore	Tributary of Erkina Biver	228052	178354	11	Low	High	Low	Low		Low	High	High	0	Jownstream of in
	11010		220032	170004		2010	riigii	LOW	LUW		2000	- i iigii	riigii	5	Sluice or outlet
														v	which leads to
														S	significant length
		Tributary of													channel under the
Site 10 KF	Nore	Erkina River	228052	178354	12	Low	High	Low	Low		Low	High	High	r	meat factory

			1					1	1	1	1		Striaghtened
		Site near Erill											channel looking
Site 11 KF	Nore	Town	220917	178524	1								downstream
													Photo under
		Site near Erill											bridge showing
Site 11 KF	Nore	Town	220917	178524	2								channalisation
													photo showing
		Site near Erill			_								bank clearance
Site 11 KF	Nore	Town	220917	178524	3								and 2 culverts
		ou = 11											photo showing
		Site near Erill	000017	170504									upstream right
Site 11 KF	Nore	Iown	220917	1/8524	4								bank poaching
													photo snowing
													new pipework
		Cite mean Evill											Intrastructure for
Sito 11 KE	Noro	Sile fiear Effil	220014	179546	5								possible
SILE IT KE	NOIE	TOWIT	220914	176540	5			+		-			abstraction
													pumphouse on left
													bank unstream
		Site near Frill											asociated with
Site 11 KF	Nore	Town	220911	178550	6								ashtraction
One TTTA	Noic	10001	220011	170000	0								upstream view
Site 19	Nore	Trib to Nore	219957	183419	1								from bridge
													view of culverted
													river - water
Site 19	Nore	Trib to Nore	219957	183419	2								stangnant
		Noro Main											unatroom view
Site 20 KE	Noro	Channel	221069	196062	- 1								from bridge
Sile 20 KF	NOTE	Ghannei	221000	100903	1								nom bridge
		Nore Main											downstream view
Site 20 KF	Nore	Channel	221068	186963	2								from bridge
													poaching
		Nore Main											upstream on right
Site 20 KF	Nore	Channel	221068	186963	3			-	_	-			bank
													bank erosion and
		Nexe Main											animal trampling
Site 20 KE	Noro	Nore Main	001069	196062	4								loft book
SILE 20 KF	nore	Channel	221000	100903	4								eulyortod tributory
													flowing in to river
		Noro Main											downetroam on
Site 20 KF	Nore	Channel	221077	186968	5								right bank
One 20 M	Noic	Undriner	EL TOTT	100000									nght bank
		Nore Main			-								
Site 20 KF	Nore	Channel	221077	186968	6		 	+					bridge structure
		Nore Main											
Site 20 KF	Nore	Channel	221077	186968	7								bridge apron
		Trib to Nore											upstream veiw
Site 21 KF	Nore	at Mondrehid	224392	190475	1								from bridge

i.		1	1				1	1	1	1		
	Site 21 KF	Nore	Trib to Nore at Mondrehid	224392	190475	2						Downstream view from bridge
			Trib to Nore									Downstream view from bridge from
_	Site 21 KF	Nore	at Mondrehid	224392	190475	3						inside culvert
			Trib to Nore									inflowing drainage ustream on left
	Site 21 KF	Nore	at Mondrehid	224377	190481	4						bank
			T 11									fungus attached to
		Nere	I rib to Nore	004000	100475	F						marcophytes and
-	SILEZIKE	Nore	at wondrenid	224392	190475	5	 					nver bed
	SP 11	Nore	Bogland	219621	184597	1						hon
-	01 11		Dogiana	LICOLI	101007							small scale private
	SP 11	Nore	Bogland	219621	184597	2						bog
			-									major land
												clearance for
_	SP 11	Nore	Bogland	219621	184597	3						motorway works
	SP 12	Nore	Intact forestry	226367	190461	1						Intact plantation
	SP 13	Nore	Quarry	227844	190656	1						photo of quarry
	SP 13	Nore	Quarry	227844	190656	2						photo of quarry
												upstream brisdge
	Site 22 KF	Nore	Coolraine	229171	192240	1						structure
						-						upstream view
_	Site 22 KF	Nore	Coolraine	2291/1	192240	2						from bridge
	Sito 22 KE	Noro	Coolraino	220171	102240	3						downstream velw
-	SILE 22 IN	NOIE	Cooliaine	223171	192240	5						nined outfall
												upstream in right
	Site 22 KF	Nore	Coolraine	229156	192229	4						bank
												anstraction
												downstream and
_	Site 23 KF	Nore	I rib to Nore	237870	194506	1						showing culvert
1	Site 22 KE	Noro	Trib to Noro	007070	104506	0						poacning on lett
-	SILE 23 KF	Nore	The to Nore	23/0/0	194506	2						downstream view
	Site 23 KF	Nore	Trib to Nore	237870	194506	3						of river
												upsteram view of
	Site 23 KF	Nore	Trib to Nore	237885	194516	4						river
												illegal dumping of
L	SP 14	Nore	Bogland	238134	194515	1					_	waste in old bog
1												bog on left side of
												road is undergoing
	SP 14	Nore	Bogland	238500	194685	2						regeneration
F	<u>.</u>		Logiana	_00000	101000						1	bog on right side
												of raod has limited
L	SP 14	Nore	Bogland	238500	194685	3						private use but at

										not significant level.
SP 15	Nore	Trib of Nore	239450	194162	1					river flowing under culverted pipe as part of new motorway construction
Site 24 KF	Nore	Mountrath River	235457	194223	1					outfall pipe from saw mill downstream on left bank
Site 24 KF	Nore	Mountrath River	235457	194223	2					upstream view of river
Site 24 KF	Nore	Mountrath River	235457	194223	3					downstream view of river
Site 24 KF	Nore	Mountrath River	235489	194199	4					discharge pipe with significant flow from saw mill
Site 24 KF	Nore	Mountrath River	225409	194327	5					weird downstream from town bridge
Site 24 KF	Nore	Mountrath River	235318	194411	6					embankment walls upstream towards town bridge
Site 24 KF	Nore	Mountrath River	235240	194476	7					photo looking upstream at town bridge
Site 24 KF	Nore	Mountrath River	235240	194476	8					photo looking u/s from town bridge on N7
Site 24 KF	Nore	Mountrath River	235240	194476	9					possible CSO on left bank upstream of n7 bridge
										old bogland naturally turning to scrub. No
SP 16	Nore	old bogland	237557	189478	1					pressures here. downstream view of culvert under
Site 25 KF	Nore	I rib to Nore	238158	188924	1					land drain/perforated
Site 25 KF	Nore	Trib to Nore	238158	188924	2					pipe on left bank downstream
Site 25 KF	Nore	Trib to Nore	238107	189050	3					view of farmyard drainage
Site 26 KF	Nore	Trib to Nore	237416	188015	1					from bridge
Site 26 KF	Nore	Trib to Nore	237416	188015	2					from bridge

Site 26 KF	Nore	Trib to Nore	237416	188015	3					drainage entering channel downstream rightbank
Site 27 KF	Nore	Gully Bridge	239018	182576	1					pipes on bridge
Site 27 KF	Nore	Gully Bridge	239018	182576	2					view upstream
Site 27 KF	Nore	Gully Bridge	239018	182576	3					view downsteram
Site 27 KF	Nore	Gully Bridge	239018	182576	4					view downstream
Site 28 KF	Nore	Rathmakelly	235628	179148	1					upstream view from bridge
Site 28 KF	Nore	Rathmakelly	235628	179148	2					downstream view from bridge
Site 28 KF	Nore	Rathmakelly	235628	179148	3					downstream view of round culvert at bridge
Site 28 KF	Nore	Rathmakelly	235842	179758	4					drainage via culvert entering river
SP 17	Nore	Forestry in Slieve Blooms	223994	196949	1					looking uphill at clearning in forest. Has turned in to natural scrub
SP 18	Nore	Forestry in Slieve Blooms	220606	195331	1					looking uphill at clearning in forest. Has turned in to natural scrub
SP 19	Nore	Forestry in Slieve Blooms	230703	199805	1					hillside scrub
SP 20	Nore	Forestry in Slieve Blooms	225707	199978	1					looking uphill at clearning in forest. Has turned in to natural scrub
SP 21	Nore	Forestry in Slieve Blooms Laois Offaly Boundary	226906	203926	1					looking uphill at clearning in forest. Has turned in to natural scrub
SP 21	Nore	Forestry in Slieve Blooms Laois Offaly Boundary	226906	203926	2					looking uphill at clearning in forest. Has turned in to natural scrub

SP 21	Nore	Forestry in Slieve Blooms Laois Offaly Boundary	226906	203926	3					looking uphill at clearning in forest. Has turned in to natural scrub
SP 22	Nore	Forestry in Slieve Blooms Laois Offaly Boundary	227619	203064	1					looking uphill at clearning in forest. Has turned in to natural scrub
SP 22	Nore	Forestry in Slieve Blooms Laois Offaly Boundary	227619	203064	2					looking uphill at clearning in forest. Has turned in to natural scrub

Appendix 3 – Catchment Walkover Risk Assessment Survey Sheet

Sheet 1: Catchment Walkovers	Version 1. 07/04/2009
Tribu	tary/Main Channel*
Site Identification	
Diver Neme	Cite Conte
River Name	Sile Code
Water Body ID	Start U/S or D/S*
First site IGR	Last site IGR
Bank surveyed from L/R/In-channel*	
Photograph details include IGR or approx	imate location.
· · · ·	
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	W 100 101 101 101 101 101 101 101 101 10

Select as appropriate

		Present?				
	Yes	No		Grid Reference of specific pressure	No.of Photographs	Comments
urce of Erosion						
ink erosion						
nd clearance						
river clearance						
able ploughing						
imal trampling						
rds						
annel manipulation						
ird bank protection measures						
her sources						
erall Risk	High	Medium	Low			
fuse Nutrient						
able						
azing						
proved grassland						
age						
estry						
using						
ustry and associated works					-	
ner sources						
		-				
erall Risk	High	Medium	Low			
use Silt						
ble						
tzing						
er-grazing						
proved grassland (Re-seeding	(£				-	
est						
ge						
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nstruction stages						
using						
lling						
at cutting						
arries						
her sources						
erall Risk	High	Medium	Low			

Nat Nat Nat Nat Nat Control Nat Control Nat Strain State L	Ne Ne Ne Conditient (see in the section for the section (section for the section (section for the section for the se	No. No. No. Control No. No. </th <th></th> <th></th> <th>Present?</th> <th></th> <th></th> <th></th> <th></th>			Present?				
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