NATURA IMPACT STATEMENT

IN SUPPORT OF THE

APPROPRIATE ASSESSMENT

OF

PROPOSED VARIATION NO. 1

TO THE

GALWAY COUNTY DEVELOPMENT PLAN 2009-2015

IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 6(3) OF THE EU HABITATS DIRECTIVE

for: Galway County Council County Buildings Prospect Hill Galway by: CAAS Ltd.

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Section 1 Introduction

1.1 Background

This is the Natura Impact Statement for the proposed Variation No. 1 to the Galway County Development Plan 2009-2015 in accordance with the requirements of Article 6(3) of the EU Habitats Directive¹. This report is divided into these four sections:

Section 1	Introduction
Section 2	Stage 1 Screening
Section 3	Stage 2 Appropriate Assessment
Section 4	Mitigation Measures

1.2 Legislative Context

The Council Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora, better known as "The Habitats Directive", provides legal protection for habitats and species of European importance. Articles 3 to 9 provide the legislative means to protect habitats and species of Community interest through the establishment and conservation of an EU-wide network of sites known as Natura 2000. These are candidate Special Areas of Conservation (cSACs) designated under the Habitats Directive and Special Protection Areas (SPAs) designated under the Conservation of Wild Birds Directive (79/409/ECC).

Articles 6(3) and 6(4) of the Habitats Directive set out the decision-making tests for plans and projects likely to affect Natura 2000 sites (Annex 1.1). Article 6(3) establishes the requirement for Appropriate Assessment (AA):

"Any plan or project not directly connected with or necessary to the management of the [Natura 2000] site but likely to have a significant effect thereon, either individually or in combination with other plans or projects, shall be subjected to appropriate assessment of its implications for the site in view of the site's conservation objectives. In light of the conclusions of the assessment of the implications for the site and subject to the provisions of paragraph 4, the competent national authorities shall agree to the plan or project only after having ascertained that it will not adversely affect the integrity of the site concerned and, if appropriate, after having obtained the opinion of the general public

If, in spite of a negative assessment of the implications for the [Natura 2000] site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, Member States shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.

Where the site concerned hosts a priority natural habitat type and/or a priority species the only considerations which may be raised are those relating to human health or public safety, to beneficial consequences of primary importance for the environment or, further to an opinion from the Commission, to other imperative reasons of overriding public interest."

¹ Directive 92/43/EEC

1.3 Stages of Appropriate Assessment

This Appropriate Assessment has been prepared in accordance with the following guidance:

- *Appropriate Assessment of Plans and Projects in Ireland. Guidance for Planning Authorities.* Department of the Environment, Heritage and Local Government, 2009.
- Assessment of plans and projects significantly affecting Natura 2000 sites: Methodological guidance on the provisions of Article 6(3) and (4) of the Habitats Directive 92/43/EEC, European Commission Environment DG, 2000.
- Managing Natura 2000 sites: The Provisions of Article 6 of the Habitats Directive 92/43/EEC: European Commission, 2000

AA comprises four stages:

Stage One: Screening

The process which identifies the likely impacts upon a Natura 2000 site of a project or plan, either alone or in combination with other projects or plans, and considers whether these impacts are likely to be significant.

Stage Two: Appropriate Assessment

The consideration of the impact on the integrity of the Natura 2000 site of the project or plan, either alone or in combination with other projects or plans, with respect to the site's structure and function and its conservation objectives. Additionally, where there are adverse impacts, an assessment of the potential mitigation of those impacts.

Stage Three: Assessment of Alternative Solutions

The process which examines alternative ways of achieving the objectives of the project or plan that avoid adverse impacts on the integrity of the Natura 2000 site.

Stage Four: Assessment where no alternative solutions exist and where adverse impacts remain

An assessment of compensatory measures where, in the light of an assessment of imperative reasons of overriding public interest (IROPI), it is deemed that the project or plan should proceed.

The Habitats Directive promotes a hierarchy of avoidance, mitigation and compensatory measures. First, the plan should aim to avoid any impacts on European sites by identifying possible impacts early in the plan-making process and writing the plan in order to avoid such impacts. Second, mitigation measures should be applied, if necessary, during the AA process to the point where no adverse impacts on the site(s) remain. If the plan is still likely to result in impacts on European sites, and no further practicable mitigation is possible, then it must be rejected. If no alternative solutions are identified and the plan is required for imperative reasons of overriding public interest (IROPI test) under Article 6(4) of the Habitats Directive, then compensation measures are required for any remaining adverse effect.

This report documents the first of these stages. It's conclusion that significant impacts on Natura 2000 sites are unlikely means that further AA stages are not required.

Section 2 Stage 1 Screening

2.1 Description of the Variation

2.1.1 Background

Galway County Council proposes to make a Statutory Variation to the current Galway County Development Plan to introduce a Core Strategy, in accordance with the provisions of the Planning and Development Act 2010.

2.1.2 Content

There are 2 components to the Proposed Variation.

The first is to replace Section 2 - *Spatial Planning Strategy* - of the County Development Plan 2009 to 2015 with a new Section 2 - *Core Strategy and Spatial Planning*.

This is necessary in order to give effect to the requirement under Section 7 of the Planning and Development Act 2010, to introduce a Core Strategy into the Galway County Development Plan 2009 to 2015. This is necessary to demonstrate that the County Development Plan and its objectives are consistent with national and regional development objectives as set out in the National Spatial Strategy and the West Regional Planning Guidelines 2010 to 2022, especially as regards:

- The hierarchy and role of Gateways, Hub towns, county towns, other towns and villages and rural areas; and,
- Giving effect to the hierarchy by setting regional and national population targets and associated requirements for housing land across the overall functional area of the planning authority.

The second component is to amend various parts of Section 3 - *Settlement Strategy* - of the County Development Plan to ensure that the County settlement strategy is consistent with the settlement hierarchy set out in the proposed Variation, the Regional Planning Guidelines for the West Region 2010 to 2022 and the National Spatial Strategy.

2.2 Natura 2000 Sites in and within 15 km of the Plan Area

2.2.1 SACs and SPAs

This section of the screening process describes the Natura 2000 sites within a 15km zone of impact of the plan area. A distance of 15km is currently recommended in the DoE document *DRAFT* - *Guidance for Planning Authorities* and as a precautionary measure, to ensure that all potentially affected Natura 2000 sites are included in the screening process. A map indicating the locations of the sites is given in Figure 2.1.

Tables 2.1 a & b and Tables 2.2 a & b list the Natura 2000 sites that are a) within County Galway and b) within 15 km of the county boundary. The qualifying features for each site have been obtained through a review of the site synopses available from the NPWS website.



2.1: Natura 2000 sites within Co. Galway and 15km of the County Boundary (July 2011)

alway County Council

Table 2.1a:	SPAs	in	County	Galway

Site Name and code	Conservation Interests	
004031 - Inner Galway Bay SPA	Red-throated Diver, Black-throated Diver, Great Northern Diver, Golden Plover, Bar-tailed Godwit, Sandwich Tern and Common Tern.	Brent Goose, Black-throated Diver, Cormorant, Mute Swan, Wigeon, Teal, Shoveler, Red- breasted Merganser, Ringed Plover, Lapwing, Dunlin, Bar-tailed Godwit, Curlew, Redshank, Greenshank, Turnstone Red-breasted Merganser, Ringed Plover, Little Grebe, Grey Heron, Longtailed Duck, Scaup, Black-headed Gull, Common Gull and Herring Gull, Great Crested Grebe, Mallard, Shelduck, Common Scoter, Oystercatcher, Grey Plover, and Great Blackbacked Gull
004042 - Lough Corrib SPA	Whooper Swan, Greenland White-fronted Goose, Golden Plover, Common Tern and Arctic Tern.	Pochard, Common Scoter, Tufted Duck, Coot, Mute Swan, Gadwall, Shoveler, Lapwing, Wigeon, Teal, Mallard, Goldeneye, Curlew and Cormorant
004056 - Lough Cutra SPA	Whooper Swan	Cormorant, Whooper Swan, Mallard, Tufted Duck, Goldeneye, Mute Swan, Common Sandpiper
004058 - Lough Derg (Shannon) SPA	Common Terns, Whooper Swan, Greenland White Fronted Goose	Tufted Duck, Goldeneye, Mute Swan, Black Headed Gull, Cormorant, Great Crested Grebe, Wigeon, Teal, Mallard, Pochard, Coot, Lapwing, Little Grebe
004062 - Lough Mask SPA	Common Tern, Whooper Swan and Greenland White-fronted Goose	Black-headed Gull, Common Gull, Lesser Black- backed Gull, Tufted Duck, Wigeon, Teal, Mallard, Pochard, Goldeneye, Coot, Red-breasted Merganser, Little Grebe, Mute Swan and Cormorant
004067 - High Island (Galway) SPA	Storm Petrel, Barnacle Goose, Peregrine and Chough	Fulmar, Manx Shearwater, Great Black-backed Gull, Herring Gull and Black Guillemot
004088 - Lough Scannive SPA	Merlin	Cormorant, Common Gull, Great Black-backed Gull
004089 - Rahasane Turlough SPA	Greenland White-fronted Goose, Whooper Swan and Golden Plover	Wigeon, Pintail, Lapwing, Black-tailed Godwit, Shoveler, Dunlin, Mute Swan, Teal, Tufted Duck, Curlew, Redshank, Mallard, Black-headed Gull and Grey Heron
004096 - Middle Shannon Callows SPA	Whooper Swan, Corncrake, Golden Plover, Bewick's Swan, Greenland White Fronted Goose, Merlin, Hen Harrier, Kingfisher	Mute Swan, Wigeon, Lapwing, Black Tailed Godwit, Whimbrel, Teal, Tufted Duck, Dunlin, Curlew, Redshank, Black Headed Gull, Snipe, Shoveler, Quail, Sedge Warbler, Grasshopper Warbler, Skylark, Reed Bunting, Whinchat
004097 - River Suck Callows SPA	Greenland White Fronted Goose, Whooper Swan, Golden Plover	Wigeon, Lapwing, Mute Swan, Teal, Pintail, Curlew, Black Headed Gull
004107 - Coole- Garryland SPA	Whooper Swan	Wigeon, Teal, Shoveler, Pochard, Tufted Duck, Mallard, Pintail, Goldeneye, Mute Swan, Lapwing and Curlew, Common Sandpiper
004152 - Inishmore SPA	Chough, Little Tern, Arctic Tern, Merlin and Peregrine Falcon	Kestrel, Sparrowhawk, Linnet, Goldfinch Guillemot, Fulmar, Razorbill, Shag, Herring Gull, Great Blackbacked Gull and Kittiwake
004123 - Slyne Head Islands SPA	Arctic Tern, Storm Petrel, Barnacle Geese	Black Guillemots, Manx Shearwater, Herring Gull and Great Black-backed Gull
004134 - Lough Rea SPA	Shoveler and Coot	Wetland & Waterbirds
004142 - Cregganna Marsh SPA	Greenland White-fronted Geese	N/A
004168 - Slieve Aughty Mountains SPA	Hen Harrier and Merlin	N/A
004170 - Cruagh Island SPA	Manx Shearwater and Barnacle Goose	Great Black-backed Gull, Fulmar

Site Name and Code	Conservation Interests	
004064 Lough Ree SPA	Whooper Swan, Greenland White Fronted Goose, Common Tern, Golden Plover	Wigeon, Teal, Pintail, Tufted Duck, Goldeneye, Lapwing, Cormorant, Mallard, Coot, Shoveler, Curlew, Great Crested Grebe, , Little Grebe, Mute Swan, Black Headed Gull, Lesser Black-backed Gull, Common Gull, Common Scoter, Garden Warbler
004105 Bellanagare Bog SPA	Greenland White-fronted Geese, Golden Plover	Red Grouse
004139 Lough Croan Turlough SPA	Whooper Swan, Golden Plover, Greenland White-fronted Goose and Bewick's Swan	Shoveler, Wigeon, Gadwall, Teal, Mallard, Pintail, Coot, Lapwing, Curlew, Pochard, Shoveler, Mute Swan, Blackheaded Gull Snipe, Curlew and Lapwing.
004140 Four Roads Turlough SPA	Greenland White-fronted Geese, Whooper Swan	Wigeon, Teal, Shoveler, Bewick's Swan, Greenland White-fronted Goose, Mallard, Pintail, Golden Plover, Lapwing, Curlew, Redshank and Snipe.
004005 Cliffs of Moher SPA	Chough and Puffin	Fulmar, Kittiwake, Guillemot, Razorbill and Puffin. Razorbill Shag, Herring Gull, Great Black-backed Gull and Black Guillemot
004041 Ballyallia Lough SPA	Whooper Swan	Black-tailed Godwit Shoveler and Gadwall Little Grebe, Wigeon, Gadwall, Teal, Shoveler, Coot and Black-tailed Godwit. Whooper Swan, Mallard, Pintail, Pochard, Tufted Duck, Lapwing, Mute Swan, Grey Heron, Cormorant, Greylag Goose and Black-headed Gull
004086 River Little Brosna Callows SPA	Greenland White Fronted Goose, Whooper Swan, Golden Plover	Black Tailed Godwit, Wigeon, Teal, Pintail, Shoveler, Lapwing, Mute Swan, Mallard, Dunlin, Pochard, Curlew, Black Headed Gull, Redshank, Snipe
004017 Mongan Bog SPA	Greenland White Fronted Goose	Mallard, Snipe, Curlew, Skylark, Meadow Pipit
004103 All Saints Bog SPA	Greenland White-fronted Geese, Merlin	N/A
004137 Dovegrove Callows SPA	Merlin	N/A
004212 Cross Lough (Killadoon) SPA	Whooper Swan and Barnacle Goose	N/A

Table 2.2a: SACs in County Galway

Site Name (Site Code)	Annex I habitat	Annex II Species
000212 - Inishmaan Island SAC	Limestone pavements	
	Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia)(important orchid	
	sites)	
	European dry heaths	
	Lowland hay meadows (Alopecurus pratensis, Sanguisorba	
	officinalis)	
	Machairs (in Ireland)	
	Perennial vegetation of stony banks	
	Reefs Vegetated sea cliffs of the Atlantic and Baltic coasts	
	Embryonic shifting dunes	
	Shifting dunes along the shoreline with Ammophila arenaria	
	(white dunes)	
	Limestone pavements	
	European dry heaths	
	Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia)(important orchid	
	sites)	
	Lowland hay meadows (Alopecurus pratensis, Sanguisorba	
	officinalis)	
	Fixed coastal dunes with herbaceous vegetation (grey	
	dunes)	
	Embryonic shifting dunes	
	Shifting dunes along the shoreline with Ammophila arenaria	
	(white dunes) Dunes with Salix repens ssp.argentea (Salix arenariae)	
	Humid dune slacks	
	Machairs (in Ireland)	
	Perennial vegetation of stony banks	
	Reefs	
	Vegetated sea cliffs of the Atlantic and Baltic coasts	
	Alpine and Boreal heaths	
	Submerged or partly submerged sea caves Coastal lagoons	
000213 - Inishmore Island SAC		Vertigo angustior
000216 - River Shannon Callows SAC	Lowland hay meadows (Alopecurus pratensis, Sanguisorba	Lutra lutra
	officinalis)	
	Molinia meadows on calcareous, peaty or clavey-silt-laden	
	soils (Molinion caeruleae)	
	Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae)	
	Limestone pavements	
000218 - Coolcam Turlough SAC	Turloughs	
000231 - Barroughter Bog SAC	Active raised bogs	
	Degraded raised bogs still capable of natural regeneration	
	Depressions on peat substrates of the Rhynchosporion	
000238 - Caherglassaun Turlough SAC	Turloughs	Rhinolophus
000040 0 11 1 0 1 0 1 0 1		hipposideros
000242 - Castletaylor Complex SAC	Turloughs	
	Alpine and Boreal heaths Juniperus communis formations on heaths or calcareous	
	grasslands	
	Semi-natural dry grasslands and scrubland facies on	
	calcareous substrates (Festuco Brometalia) (important orchid	
	sites)	
	Limestone pavements	
000248 - Cloonmoylan Bog SAC	Active raised bogs Degraded raised bogs still capable of natural regeneration	
000240 010011110ylari bog 5/10	T Decided raised boos still capable of natural redeneration	
	Depressions on peat substrates of the Rhynchosporion	
	Depressions on peat substrates of the Rhynchosporion Bog woodland	
000252 - Coole-Garryland Complex	Depressions on peat substrates of the Rhynchosporion	
	Depressions on peat substrates of the Rhynchosporion Bog woodland Limestone pavements Turloughs Semi-natural dry grasslands and scrubland facies on	
000252 - Coole-Garryland Complex	Depressions on peat substrates of the Rhynchosporion Bog woodland Limestone pavements Turloughs Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia)(important orchid	
000252 - Coole-Garryland Complex	Depressions on peat substrates of the Rhynchosporion Bog woodland Limestone pavements Turloughs Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia)(important orchid sites)	
000252 - Coole-Garryland Complex	Depressions on peat substrates of the Rhynchosporion Bog woodland Limestone pavements Turloughs Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia)(important orchid sites) Juniperus communis formations on heaths or calcareous	
000252 - Coole-Garryland Complex	Depressions on peat substrates of the Rhynchosporion Bog woodland Limestone pavements Turloughs Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia)(important orchid sites)	

Site Name (Site Code)	Annex I habitat	Annex II Species
	Hydrocharition-type vegetation	
	Rivers with muddy banks with Chenopodion rubri p.p. and	
	Bidention p.p. vegetation	
000255 - Croaghill Turlough SAC	Turloughs	
000261 - Derrycrag Wood Nature	Old sessile oak woods with Ilex and Blechnum in British Isles	
Reserve SAC		
000268 - Galway Bay Complex SAC	Coastal lagoons	Phoca vitulina
	Large shallow inlets and bays	Lutra lutra
	Reefs	
	Perennial vegetation of stony banks	
	Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	
	Mediterranean salt meadows (Juncetalia maritimi)	
	Salicornia and other annuals colonizing mud and sand	
	Calcareous fens with Cladium mariscus and species of the	
	Caricion davallianae	
	Turloughs	
	Mudflats and sandflats not covered by seawater at low tide	
	Semi-natural dry grasslands and scrubland facies on	
	calcareous substrates (Festuco Brometalia) (important orchid	
	sites)	
	Alkaline fens	
	Juniperus communis formations on heaths or calcareous	
000270 Inishbafin and Inishahad	grasslands	
000278 - Inishbofin and Inishshark SAC	Coastal lagoons Northern Atlantic wet heaths with Erica tetralix	
SAC		Halichoerus grypus
	European dry heaths Oligotrophic waters containing very few minerals of sandy	
	plains (<i>Littorelletalia uniflorae</i>)	
000285 - Kilsallagh Bog SAC	Active raised bogs	
000265 - Kilsallagit buy SAC	Degraded raised bogs still capable of natural regeneration	
	Depressions on peat substrates of the Rhynchosporion	
000286 - Kiltartan Cave (Coole) SAC	Caves not open to the public	Rhinolophus
000200 - Killal lall Cave (Coole) SAC	caves not open to the public	hipposideros
000295 - Levally Lough SAC	Turloughs	Thipposideros
000296 - Lisnageeragh Bog and	Turloughs	
Ballinastack Turlough SAC	Active raised bogs	
ballindstack runough sho	Degraded raised bogs still capable of natural regeneration	
	Depressions on peat substrates of the Rhynchosporion	
000297 - Lough Corrib SAC	Hard oligo-mesotrophic waters with benthic vegetation of	Petromyzon marinu
	Chara spp.	Salmo salar
	Oligotrophic waters containing very few minerals of sandy	Lampetra planeri
	plains (<i>Littorelletalia uniflorae</i>)	Rhinolophus
	Active raised bogs	hipposideros
	Old sessile oak woods with Ilex and Blechnum in British Isles	Lutra lutra
	Molinia meadows on calcareous, peaty or clavey-silt-laden	Austropotamobius
	soils (Molinion caeruleae)	pallipes
	Alkaline fens	Margaritifera
	Calcareous fens with Cladium mariscus and species of the	margaritifera
	Caricion davallianae	Najas flexilis
	Limestone pavements	Drepanocladus
	Semi-natural dry grasslands and scrubland facies on	vernicosus
	calcareous substrates (Festuco Brometalia) (important orchid	
	sites)	
	Bog woodland	
	Water courses of plain to montane levels with the	
	Ranunculion fluitantis and Callitricho-Batrachion vegetation	
	Petrifying springs with tufa formation (<i>Cratoneurion</i>)	
	Degraded raised bogs still capable of natural regeneration	
000200 Lough Cutor CAC	Depressions on peat substrates of the Rhynchosporion	Dhinalant
000299 - Lough Cutra SAC		Rhinolophus hipposideros
000301 - Lough Lurgeen	Active raised bogs	The studies
Bog/Glenamaddy Turlough SAC	Turloughs	
209, Sichamaday Turibagit 3AC	Degraded raised bogs still capable of natural regeneration	
	Depressions on peat substrates of the Rhynchosporion	
000304 - Lough Rea SAC	Hard oligo-mesotrophic waters with benthic vegetation of	
COULT - LOUGH NED SAC	Chara spp.	
000308 - Loughatorick South Bog SAC	Blanket bog (active only)	
000318 - Peterswell Turlough SAC	Turloughs	
000319 - Pollnaknockaun Wood Nature	Old sessile oak woods with Ilex and Blechnum in British Isles	
		1

Site Name (Site Code)	Annex I habitat	Annex II Species
Reserve SAC		
000322 - Rahasane Turlough SAC	Turloughs	
000324 - Rosroe Bog SAC	Blanket bog (active only) Depressions on peat substrates of the Rhynchosporion	
000326 - Shankill West Bog SAC	Active raised bogs Degraded raised bogs still capable of natural regeneration Depressions on peat substrates of the Rhynchosporion	
000328 - Slyne Head Islands SAC	Reefs	Halichoerus grypus
000330 - Tully Mountain SAC	European dry heaths Alpine and Boreal heaths Oligotrophic waters containing very few minerals of sandy plains (Littorelletalia uniflorae) Blanket bog (active only)	
000474 - Ballymaglancy Cave, Cong SAC	Caves not open to the public	Rhinolophus hipposideros
000606 - Lough Fingall Complex SAC	Turloughs Limestone pavements Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia)(important orchid sites) Alpine and Boreal heaths Juniperus communis formations on heaths or calcareous grasslands Calcareous fens with Cladium mariscus and species of the	Rhinolophus hipposideros
001228 - Aughrusbeg Machair and Lake SAC	Caricion davallianae Oligotrophic waters containing very few minerals of sandy plains (Littorelletalia uniflorae)	
001242 - Carrownagappul Bog SAC	Northern Atlantic wet heaths with Erica tetralix Active raised bogs Degraded raised bogs still capable of natural regeneration Depressions on peat substrates of the Rhynchosporion	
001251 - Cregduff Lough SAC	Transition mires and quaking bogs	Najas flexilis
001257 - Dog's Bay SAC	Annual vegetation of drift lines Embryonic shifting dunes Fixed coastal dunes with herbaceous vegetation (grey dunes) European dry heaths Shifting dunes along the shoreline with Ammophila arenaria (white dunes)	
001271 - Gortnandarragh Limestone Pavement SAC	Limestone pavements	
001275 - Inisheer Island SAC 001285 - Kiltiernan Turlough SAC	Limestone pavements Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia)(important orchid sites) European dry heaths Lowland hay meadows (Alopecurus pratensis, Sanguisorba officinalis) Reefs Coastal lagoons Turloughs	
001309 - Omey Island Machair SAC	Machairs (in Ireland) Hard oligo-mesotrophic waters with benthic vegetation of Chara spp	Petalophyllum ralfsii
001311 - Rusheenduff Lough SAC	Oligotrophic waters containing very few minerals of sandy plains (Littorelletalia uniflorae)	Najas flexilis
001312 - Ross Lake and Woods SAC	Hard oligo-mesotrophic waters with benthic vegetation of Chara spp. Alkaline fens Molinia meadows on calcareous, peaty or clavey-silt-laden soils (Molinion caeruleae) Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae)	Rhinolophus hipposideros Lutra lutra
001313 - Rosturra Wood SAC	Old sessile oak woods with Ilex and Blechnum in British Isles	
001321 - Termon Lough SAC	Turloughs	
001774 - Lough Carra/Mask Complex SAC	Hard oligo-mesotrophic waters with benthic vegetation of Chara spp. Oligotrophic waters containing very few minerals of sandy plains (Littorelletalia uniflorae) Limestone pavements	Rhinolophus hipposideros Lutra lutra Drepanocladus vernicosus

Site Name (Site Code)	Annex I habitat	Annex II Species
	European dry heaths	
	Calcareous fens with Cladium mariscus and species of the	
	Caricion davallianae	
	Alkaline fens	
	Alluvial forests with Alnus glutinosa and Fraxinus excelsion	
	(Alno-Padion, Alnion incanae, Salicion albae)	
	Semi-natural dry grasslands and scrubland facies on	
	calcareous substrates (Festuco Brometalia)(important orchid	
	sites)	
001913 - Sonnagh Bog SAC	Blanket bog (active only)	
001926 - East Burren Complex SAC	Hard oligo-mesotrophic waters with benthic vegetation of	Rhinolophus
	Chara spp.	hipposideros
	Turloughs	Lutra lutra
	Water courses of plain to montane levels with the	Euphydryas aurinia
	Ranunculion fluitantis and Callitricho-Batrachion vegetation	
	Alpine and Boreal heaths	
	Juniperus communis formations on heaths or calcareous	
	grasslands	
	Semi-natural dry grasslands and scrubland facies on	
	calcareous substrates (Festuco Brometalia) (important orchid	
	sites)	
	Lowland hay meadows (Alopecurus pratensis, Sanguisorba	
	officinalis)	
	Calcareous fens with Cladium mariscus and species of the	
	Caricion davallianae	
	Petrifying springs with tufa formation (Cratoneurion)	
	Alkaline fens	
	Limestone pavements	
	Caves not open to the public	
	Alluvial forests with Alnus glutinosa and Fraxinus excelsion	
00000 Maximatical Maximatica CAC	(Alno-Padion, Alnion incanae, Salicion albae)	Colora color
002008 - Maumturk Mountains SAC	Alpine and Boreal heaths	Salmo salar
	Siliceous rocky slopes with chasmophytic vegetation	Najas flexilis
	Blanket bog (active only)	
	Oligotrophic waters containing very few minerals of sandy	
	plains (Littorelletalia uniflorae)	
	Northern Atlantic wet heaths with Erica tetralix	
	Depressions on peat substrates of the Rhynchosporion	Colore color
02031 - The Twelve Bens/Garraun	Blanket bog (active only)	Salmo salar
Complex SAC	Siliceous rocky slopes with chasmophytic vegetation	Lutra lutra
	Calcareous rocky slopes with chasmophytic vegetation	Margaritifera
	Siliceous scree of the montane to snow levels	margaritifera
	(Androsacetalia alpinae and Galeopsietalia ladani)	Najas flexilis
	Alpine and Boreal heaths	
	Oligotrophic waters containing very few minerals of sandy	
	plains (Littorelletalia uniflorae)	
	Old sessile oak woods with Ilex and Blechnum in British Isles	
02024 Connomore Des Complet	Depressions on peat substrates of the Rhynchosporion	Colmo octar
02034 - Connemara Bog Complex	Oligotrophic waters containing very few minerals of sandy	Salmo salar
GAC	plains (Littorelletalia uniflorae)	Lutra lutra
	Natural dystrophic lakes and ponds Water courses of plain to montane levels with the	Euphydryas aurinia Najas flexilis
	Ranunculion fluitantis and Callitricho-Batrachion vegetation	Najas nexilis
	5	
	Northern Atlantic wet heaths with Erica tetralix	
	European dry heaths Molinia moadows on calcaroous, poaty or clayov silt ladon	
	Molinia meadows on calcareous, peaty or clavey-silt-laden soils (Molinion caeruleae)	
	Blanket bog (active only)	
	Old sessile oak woods with Ilex and Blechnum in British Isles	
	Alkaline fens	
	Coastal lagoons	
	Transition mires and quaking bogs	
	Depressions on peat substrates of the Rhynchosporion	
	Reefs	
002074 - Slyne Head Peninsula SAC	Coastal lagoons	Petalophyllum ralfs
	Annual vegetation of drift lines	Najas flexilis
Juzona - Signe ricad i chinisula SAC		INAJAS HEXIIIS
502074 - Signe fieldu i chinisula She		,
	Perennial vegetation of stony banks	5
		5

Site Name (Site Code)	Annex I habitat	Annex II Species
	Shifting dunes along the shoreline with Ammophila arenaria	
	(white dunes)	
	Machairs (in Ireland)	
	Oligotrophic waters containing very few minerals of sandy	
	plains (Littorelletalia uniflorae) Juniperus communis formations on heaths or calcareous	
	grasslands	
	Semi-natural dry grasslands and scrubland facies on	
	calcareous substrates (Festuco Brometalia) (important orchid	
	sites)	
	Large shallow inlets and bays	
	Reefs	
	Hard oligo-mesotrophic waters with benthic vegetation of	
	Chara spp.	
	European dry heaths Molinia meadows on calcareous, peaty or clavey-silt-laden	
	soils (Molinion caeruleae)	
	Lowland hay meadows (Alopecurus pratensis, Sanguisorba	
	officinalis)	
	Alkaline fens	
002110 - Corliskea/Trien/Cloonfelliv	Bog woodland	
Bog SAC	Active raised bogs	
	Degraded raised bogs still capable of natural regeneration	
	Depressions on peat substrates of the Rhynchosporion	
002111 - Kilkieran Bay and Islands	Mudflats and sandflats not covered by seawater at low tide	Lutra lutra
SAC	Large shallow inlets and bays	Phoca vitulina
	Coastal lagoons	Najas flexilis
	Reefs	
	Atlantic salt meadows (Glauco-Puccinellietalia maritimae) Mediterranean salt meadows (Juncetalia maritimi)	
	Machairs (in Ireland)	
	Lowland hay meadows (Alopecurus pratensis, Sanguisorba	
	officinalis)	
002117 - Lough Coy SAC	Turloughs	
002118 - Barnahallia Lough SAC	Oligotrophic waters containing very few minerals of sandy	Najas flexilis
Ŭ	plains (<i>Littorelletalia uniflorae</i>)	-
	Blanket bog (active only)	
002119 - Lough Nageeron SAC	Oligotrophic waters containing very few minerals of sandy	Najas flexilis
	plains (<i>Littorelletalia uniflorae</i>)	
002129 - Murvey Machair SAC 002130 - Tully Lough SAC	Machairs (in Ireland)	Petalophyllum ralfsii
002130 - Tully Lough SAC	Oligotrophic waters containing very few minerals of sandy plains (Littorelletalia uniflorae)	Najas flexilis
002180 - Gortacarnaun Wood SAC	Old sessile oak woods with Ilex and Blechnum in British Isles	
002181 - Drummin Wood SAC	Old sessile oak woods with flex and Blechnum in British Isles	
002213 - Glenloughaun Esker SAC	Semi-natural dry grasslands and scrubland facies on	
	calcareous substrates (Festuco Brometalia) (important orchid	
	sites)	
002241 - Lough Derg, North-East	Taxus baccata woods of the British Isles	
Shore SAC	Juniperus communis formations on heaths or calcareous	
	grasslands	
	Alkaline fens	
	Calcareous fens with Cladium mariscus and species of the	
	Caricion davallianae	
	Alluvial forests with Alnus glutinosa and Fraxinus excelsion	
	(Alno-Padion, Alnion incanae, Salicion albae)	
002244 - Ardrahan Grassland SAC	Limestone pavements Alpine and Boreal heaths	
	Limestone pavements	
	Juniperus communis formations on heaths or calcareous	
	grasslands	
002265 - Kingstown Bay SAC	Large shallow inlets and bays	
002293 - Carrowbaun, Newhall and	Turloughs	
Ballylee Turloughs SAC	-	
002294 - Cahermore Turlough SAC	Turloughs	
002295 - Ballinduff Turlough SAC	Turloughs	
002296 - Williamstown Turloughs SAC	Turloughs	
002317 - Cregg House Stables,		Rhinolophus
Crusheen SAC	Active raised bogs	hipposideros
002347 - Camderry Bog SAC		

Site Name (Site Code)	Annex I habitat	Annex II Species
	Depressions on peat substrates of the Rhynchosporion	
002350 - Curraghlehanagh Bog SAC	Degraded raised bogs still capable of natural regeneration	
	Active raised bogs	
	Depressions on peat substrates of the Rhynchosporion	
002352 - Monivea Bog SAC	Degraded raised bogs still capable of natural regeneration	
-	Active raised bogs	
	Depressions on peat substrates of the Rhynchosporion	
002356 - Ardgraigue Bog SAC	Degraded raised bogs still capable of natural regeneration	
•	Active raised bogs	
	Depressions on peat substrates of the Rhynchosporion	

Site Nar	me (Site Code)	Annex I habitat	Annex II Species
000014	Ballyallia Lake	Natural euthrophic lakes with	
	Danjama Lako	Magnopotamion or Hydrocharition-type	
		vegetation	
000016	Ballycullinan Lake	Calcareous fens with Cladium mariscus and	
0000.0	Sanjoannan Lano	species of the Caricion davallianae	
000019	Ballyogan Lough	Calcareous fens with Cladium mariscus and	
000017	Dunyogun Lough	species of the Caricion davallianae	
000020	Black Head-Poulsallagh Complex	Water courses of plain to montane levels	Petalophyllum ralfsii
000020	black fielder outsallagit complex	with the Ranunculion fluitantis and	r ctalophyllan ransii
		Callitricho-Batrachion vegetation	
		Alpine and Boreal heaths	
		Juniperus communis formations on heaths	
		or calcareous grasslands	
		Semi-natural dry grasslands and scrubland	
		facies on calcareous substrates (Festuco	
		Brometalia) (important orchid sites)	
		Lowland hay meadows (Alopecurus	
		pratensis, Sanguisorba officinalis)	
		Petrifying springs with tufa formation	
		(Cratoneurion)	
		Reefs	
		Limestone pavements	
		Submerged or partly submerged sea caves	
		Perennial vegetation of stony banks	
000033	Dromore Woods And Loughs	Limestone pavements	Rhinolophus hipposideros
500052	Diomore woods And Lodgits	Natural euthrophic lakes with	Lutra lutra
		Magnopotamion or Hydrocharition-type	
		vegetation	
		Hydrophilous tall herb fringe communities	
		of plains and of the montane to alpine	
		levels	
000054	Moneen Mountain	Limestone pavements	Rhinolophus hipposideros
000034	Moneen Mountain	Petrifying springs with tufa formation	Euphydryas aurinia
		(Cratoneurion)	Lupityaryas admina
		Semi-natural dry grasslands and scrubland	
		facies on calcareous substrates (Festuco	
		Brometalia) (important orchid sites)	
		Calaminarian grasslands of the Violetalia	
		calaminariae	
		Alpine and Boreal heaths	
		Juniperus communis formations on heaths	
		or calcareous grasslands	
		Turloughs	
000057	Moyree River System	Limestone pavements	Rhinolophus hipposideros
1 60000	WOYLEE RIVEL SYSLEIN	Water courses of plain to montane levels	Euphydryas aurinia
		with the Ranunculion fluitantis and	Lupityui yas autitila
		Callitricho-Batrachion vegetation	
		5	
		Alkaline fens	
000440	Lough Roo	Caves not open to the public Natural euthrophic lakes with	
500440	Lough Ree	Magnopotamion or Hydrocharition-type	
		5 5	
		vegetation Alkaline fens	
		Old sessile oak woods with Ilex and	
		Blechnum in British Isles	
		Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco	
		•	
		Brometalia) (important orchid sites)	
		Bog woodland	
		Limestone pavements	
		Degraded raised bogs still capable of	
000///		natural regeneration	
000461		Turloughs	
000475	0	Turloughs	
000479		Limestone pavements	
000480	Clyard Kettle-Holes	Calcareous fens with Cladium mariscus and	
		species of the Caricion davallianae	
		Turloughs	

Table 2.2b: SACs within	15km of the B	Boundary of County	Galway
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Site Nar	ne (Site Code)	Annex I habitat	Annex II Species
000484	Cross Lough (Killadoon)	Perennial vegetation of stony banks	
		Coastal lagoons	
		Machairs (in Ireland)	
		Molinia meadows on calcareous, peaty or	
		clavey-silt-laden soils (Molinion caeruleae)	
000503	Greaghans Turlough	Turloughs	
000504	Kilglassan/Caheravoostia Turlough	Turloughs	
Complex			
000525	Shrule Turlough	Turloughs	
000541		Turloughs	
000566	All Saints Bog And Esker	Bog woodland	
		Active raised bogs	
		Semi-natural dry grasslands and scrubland	
		facies on calcareous substrates (Festuco	
		Brometalia) (important orchid sites)	
		Degraded raised bogs still capable of natural regeneration	
		Depressions on peat substrates of the	
		Rhynchosporion	
000575	Ferbane Bog	Active raised bogs	
000070	i cibario bog	Degraded raised bogs still capable of	
		natural regeneration	
		Depressions on peat substrates of the	
		Rhynchosporion	
000576	Fin Lough (Offaly)	Alkaline fens	Vertigo geyeri
		Hard oligo-mesotrophic waters with	
		benthic vegetation of Chara spp.	
		Degraded raised bogs still capable of	
		natural regeneration	
000580	Mongan Bog	Active raised bogs	
	5 5	Degraded raised bogs still capable of	
		natural regeneration	
		Depressions on peat substrates of the	
		Rhynchosporion	
000581	Moyclare Bog	Degraded raised bogs still capable of	
		natural regeneration	
		Depressions on peat substrates of the	
		Rhynchosporion	
000588	Ballinturly Turlough	Turloughs	
000592	Bellanagare Bog	Active raised bogs	Euphydryas aurinia
		Degraded raised bogs still capable of	
		natural regeneration	
		Depressions on peat substrates of the	
000507	Community (Colors Don	Rhynchosporion	Frankradman a samtata
000597	Carrowbehy/Caher Bog	Active raised bogs	Euphydryas aurinia
		Degraded raised bogs still capable of	
		natural regeneration Depressions on peat substrates of the	
		Rhynchosporion	
000600	Cloonchambers Bog	Active raised bogs	Euphydryas aurinia
000000	Ciocilcitatine s buy	Degraded raised bogs still capable of	Lupityuiyas autitila
		natural regeneration	
		Depressions on peat substrates of the	
		Rhynchosporion	
000604	Derrinea Bog	Active raised bogs	
		Degraded raised bogs still capable of	
		natural regeneration	
		Depressions on peat substrates of the	
		Rhynchosporion	
000607	Errit Lough	Hard oligo-mesotrophic waters with	
	5	benthic vegetation of Chara spp.	
000609	Lisduff Turlough	Turloughs	
000610	Lough Croan Turlough	Turloughs	
000611	Lough Funshinagh	Turloughs	
000612		Turloughs	
000641	Ballyduff/Clonfinane Bog	Active raised bogs	
	5	Degraded raised bogs still capable of	
		natural regeneration	
		Depressions on peat substrates of the	
		Rhynchosporion	1

Site Nan	ne (Site Code)	Annex I habitat	Annex II Species
		Bog woodland	
000647	Kilcarren-Firville Bog	Active raised bogs Degraded raised bogs still capable of natural regeneration Depressions on peat substrates of the	
000919	Ridge Road, Sw Of Rapemills	Rhynchosporion Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco	
000004	Pollynoughon Turlough	Brometalia)(important orchid sites)	
000996	Ballyvaughan Turlough Lough Cahasy, Lough Baun And	Turloughs Coastal lagoons	
Roonah L	0 9	Shifting dunes along the shoreline with Ammophila arenaria (white dunes) Perennial vegetation of stony banks	
001536	Mocorha Lough	Calcareous fens with Cladium mariscus and species of the Caricion davallianae	
001625	Castlesampson Esker	Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia)(important orchid sites) Turloughs	
001637	Four Roads Turlough	Turloughs	
001683	Liskeenan Fen	Calcareous fens with Cladium mariscus and	
		species of the Caricion davallianae	
001776	Pilgrim's Road Esker	Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia)(important orchid sites)	
001912	Glendree Bog Mweelrea/Sheeffry/Erriff Complex	Blanket bog (active only)	
		Annual vegetation of drift lines Atlantic salt meadows (Glauco- Puccinellietalia maritimae) Embryonic shifting dunes Shifting dunes along the shoreline with Ammophila arenaria (white dunes) Atlantic decalcified fixed dunes (Calluno- Ulicetea) Dunes with Salix repens ssp.argentea (Salix arenariae) Machairs (in Ireland) Oligotrophic waters containing very few minerals of sandy plains (Littorelletalia uniflorae) Oligotrophic to mesotrophic standing waters with vegetation of the Littorelletea uniflorae and/or of the Isoëto- Nanojuncetea Water courses of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion vegetation Northern Atlantic wet heaths with Erica tetralix European dry heaths Alpine and Boreal heaths Juniperus communis formations on heaths or calcareous grasslands Blanket bog (active only)	<i>Margaritifera margaritifera Vertigo geyeri Vertigo angustior Petalophyllum ralfsii Najas flexilis</i>
002126	Pollagoona Bog	Transition mires and quaking bogs Alkaline fens Petrifying springs with tufa formation (Cratoneurion) Siliceous rocky slopes with chasmophytic vegetation Calcareous rocky slopes with chasmophytic vegetation Mediterranean salt meadows (Juncetalia maritimi) Natural dystrophic lakes and ponds Depressions on peat substrates of the Rhynchosporion Blanket bog (active only)	

Site Nan	ne (Site Code)	Annex I habitat	Annex II Species
002157	Newgrove House		Rhinolophus hipposideros
002165	Lower River Shannon	Estuaries Mudflats and sandflats not covered by seawater at low tide Coastal lagoons Vegetated sea cliffs of the Atlantic and Baltic coasts Salicornia and other annuals colonizing mud and sand Atlantic salt meadows (Glauco- Puccinellietalia maritimae) Mediterranean salt meadows (Juncetalia maritimi) Water courses of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion vegetation Sandbanks which are slightly covered by sea water all the time Large shallow inlets and bays Reefs Perennial vegetation of stony banks	Lampetra fluviatilis Lampetra planeri Petromyzon marinus Salmo salar Tursiops truncatus Lutra lutra Margaritifera margaritifera
		Spartina swards (Spartinion maritimae) Molinia meadows on calcareous, peaty or clavey-silt-laden soils (Molinion caeruleae) Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae)	
002214	Killeglan Grassland	Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia)(important orchid sites)	
002245	Old Farm Buildings, Ballymacrogan		Rhinolophus hipposideros
002246 Building	Ballycullinan, Old Domestic		Rhinolophus hipposideros
002247	Toonagh Estate		Rhinolophus hipposideros
002298	River Moy	Active raised bogs Degraded raised bogs still capable of natural regeneration Depressions on peat substrates of the Rhynchosporion Old sessile oak woods with Ilex and Blechnum in British Isles Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae)	Salmo salar Petromyzon marinus Lampetra planeri Lutra lutra Austropotamobius pallipes
002312	Slieve Bernagh Bog	Blanket bog (active only) Northern Atlantic wet heaths with Erica tetralix European dry heaths	
002314	Old Domestic Buildings, Rylane		Rhinolophus hipposideros
002320 002338	Kildun Souterrain Drumalough Bog	Active raised bogs Degraded raised bogs still capable of natural regeneration Depressions on peat substrates of the Rhynchosporion	Rhinolophus hipposideros
002339 Lough	Ballynamona Bog And Corkip	Turloughs Degraded raised bogs still capable of natural regeneration Bog woodland Active raised bogs Depressions on peat substrates of the Rhynchosporion	
002353	Redwood Bog	Degraded raised bogs still capable of natural regeneration Active raised bogs Depressions on peat substrates of the Rhynchosporion	

2.3 Assessment Criteria

2.3.1 Is the proposed Variation Necessary to Management of Natura 2000 Sites?

Under the Habitats Directive, Plans that are directly connected with or necessary to the management of a Natura 2000 site do not require AA. For this exception to apply, management is required to be interpreted narrowly as nature conservation management in the sense of Article 6(1) of the Habitats Directive. This refers to specific measures to address the ecological requirements of annexed habitats and species (and their habitats) present on a site (s). The relationship should be shown to be direct and not a by-product of the plan, even if this might result in positive or beneficial effects for a site (s).

The Development Plan as varied includes measures that will benefit the protection of Natura 2000 sites however its primary purpose is not generally the nature conservation management of the sites, but to provide for development. Therefore, the Development Plan as varied is not considered by the Habitats Directive to be directly connected with or necessary to the management of Natura 2000 sites.

2.3.2 Direct, Indirect or Secondary Impacts

In general, any development that may result from implementation of the proposed Variation, such as construction of housing, roads, rail, water and wastewater infrastructure, gas, electricity and telecommunications infrastructure could lead to a number of impacts depending on where development is sited, the scale of development and types and quantities of emissions. In practice and as outlined in the EU document "Assessment of plans and projects significantly affecting Natura 2000 sites: Methodological guidance on the provisions of Article 6(3) and (4) of the Habitats Directive 92/43/EEC", and the national guidance document 'Appropriate Assessment of Plans and Projects in Ireland. Guidance for Planning Authorities', impacts that could potentially occur through the implementation of the proposed Variation can be categorised under a number of headings

- Loss/Reduction of habitat area e.g. as a result of development, transport infrastructure etc
- Disturbance to key species e.g. as a result of increased public access to protected sites and increased recreational pressure such as development of footpaths and cycleways particularly along the coast.
- Habitat or species fragmentation e.g. through land intensification and urbanisation
- Reduction in species density
- Changes in key indicators of conservation value such as decrease in water quality and quantity e.g. through inadequate wastewater treatment, runoff of pollutants during construction and operational phases of development.

It should also be noted that the Galway County Development Plan 2009-2015 has already been subject to appropriate assessment. The present assessment examines only those impacts that will arise through the changes to the Plan brought about by the Core Strategy Variation. Tables 2.3a-b and 3.4a-b outline the types of impacts that may occur through development of the Hub town of Tuam, the key towns of Ballinasloe, Loughrea, Oranmore, Athenry, Gort, the Metropolitan Satellites of Barna, Claregalway and Moycullen and the Lower Tier Towns/Villages of Headford, Craughwell, Clifden, Portumna, Carraroe, Kinvara, Spiddal, Oughterard, Clarinbridge and Mountbellew.

A review of the waste water treatment capacity within these settlements was also carried out. It was found that there was limited or no wastewater capacity available in Oranmore, Athenry, Gort, Barna, Claregalway, Craughwell, Clifden, Carraroe, Kinvara, Spiddal, Oughterard, Clarinbridge and Mountbellew.

Table 2.3a: SPAs in County Galway

Site Name and code	Potential Impacts
Inner Galway Bay SPA	Development within Tuam, Loughrea, Barna, Moycullen, Craughwell, Kinvara, Clarinbridge and Athenry may lead to the pollution of watercourses during construction and through the discharge of treated wastewater. This in turn may lead to cumulative and indirect impacts on Inner Galway Bay SPA downstream of the discharge points. Changes in water quality may affect habitats on which bird species that inhabit the SPA depend, leading to reduction in species density. Development Oranmore, Clarinbridge and Barna may lead to disturbance impacts on bird species
Lough Corrib SPA	Development within Tuam, Headford, Oughterard and Claregalway may lead to the pollution of watercourses during construction and through the discharge of treated wastewater. This in turn may lead to cumulative and indirect impacts on Lough Corrib SPA downstream of the discharge point. Changes in water quality may affect habitats on which bird species that inhabit the SPA depend, leading to reduction in species density.
Lough Cutra SPA	Development within the Key town of Gort may lead to the pollution of watercourses during construction and through the discharge of treated wastewater. This in turn may lead to cumulative and indirect impacts downstream of the discharge point in the Lough Cutra SPA. Changes in water quality may affect habitats on which bird species that inhabit the SPA depend, leading to reduction in species density.
Lough Derg (Shannon) SPA	Development Ballinasloe and Portumna may lead to the pollution of watercourses during construction and through the discharge of treated wastewater. This in turn may lead to cumulative and indirect impacts on downstream of the discharge point. Changes in water quality may affect habitats on which bird species that inhabit the SPA depend, leading to reduction in species density. Development in Portumna may lead to disturbance of bird species.
Lough Mask SPA	No impacts anticipated
High Island (Galway) SPA	No impacts anticipated
Lough Scannive SPA	No impacts anticipated
Rahasane Turlough SPA	No impacts anticipated
Middle Shannon Callows SPA	Development within the Hub town of Ballinasloe may lead to the pollution of watercourses during construction and through the discharge of treated wastewater. This in turn may lead to cumulative and indirect impacts on downstream of the discharge point. Changes in water quality may affect habitats on which bird species that inhabit the SPA depend, leading to reduction in species density.
River Suck Callows SPA	Ballinasloe is located on the banks of the River Suck. Development within the Hub town of Ballinasloe may lead to habitat loss and disturbance of species. Development may lead to the pollution of watercourses during construction and through the discharge of treated wastewater. This in turn may lead to cumulative and indirect impacts downstream of the discharge point. Changes in water quality may affect habitats on which bird species that inhabit the SPA depend, leading to reduction in species density. Wastewater from Mountbellew discharges to the Castelgar River, which flows into the River Suck Callows SPA.
Coole-Garryland SPA	Development within the nearby Key town of Gort has the potential to lead to disturbance impacts on bird species in this SPA
Inishmore SPA	No impacts anticipated
Slyne Head Islands SPA	No impacts anticipated
Lough Rea SPA	Loughrea is located adjacent to Lough Rea. Development within the Key town of Loughrea may lead to habitat loss and disturbance of species. Development may lead to the pollution of watercourses during construction and through the discharge of treated wastewater. This in turn may lead to cumulative and indirect impacts downstream of the discharge point. Changes in water quality may affect habitats on which bird species that inhabit the SPA depend, leading to reduction in species density.
Cregganna Marsh SPA	Development within the Key town of Oranmore may lead to disturbance impacts on bird species as well as the pollution of watercourses during construction and through the discharge of treated wastewater. This in turn may lead to cumulative and indirect impacts on Inner Galway Bay SPA downstream of the discharge point. Changes in water quality may affect habitats on which bird species that inhabit the SPA depend, leading to reduction in species density.
Slieve Aughty Mountains SPA	No impacts anticipated
Cruagh Island SPA	No impacts anticipated

Table 2.3b: SPAs within 15km of the Boundary of County Galway

Site Name and Code	Potential Impacts
Lough Ree SPA	No impacts anticipated
Bellanagare Bog SPA	No impacts anticipated
Lough Croan Turlough SPA	No impacts anticipated
Four Roads Turlough SPA	No impacts anticipated
Cliffs of Moher SPA	No impacts anticipated
Ballyallia Lough SPA	No impacts anticipated
River Little Brosna Callows SPA	No impacts anticipated
Mongan Bog SPA	No impacts anticipated
All Saints Bog SPA	No impacts anticipated
Dovegrove Callows SPA	No impacts anticipated
Cross Lough (Killadoon) SPA	No impacts anticipated
River Shannon And River Fergus	Development within the Hub town of Ballinasloe may lead to the pollution of
Estuaries SPA	watercourses during construction and through the discharge of treated wastewater.
	This in turn may lead to cumulative and indirect impacts on downstream of the
	discharge point. Changes in water quality may affect habitats on which bird species
	that inhabit the SPA depend, leading to reduction in species density.

Table 2.4a: SACs in County Galway

Inshmen Island SAC No impacts anticipated River Shannon Callows SAC No impacts anticipated River Shannon Callows SAC Development within the Hub town of Ballinstoe may lead to cumulative and indirect impacts downstream of the discharge of treated wastewater. This in turn may lead to cumulative and indirect impacts anticipated Coolcam Turlough SAC No impacts anticipated Emrogabile Bog SAC No impacts anticipated Coolcam Turlough SAC No impacts anticipated Castletayler Complex SAC No impacts anticipated Coolcam SAC No impacts anticipated Coolcam Carvading Hause Reserve SAC No impacts anticipated Coolcading Carvading Hause Reserve SAC No impacts anticipated Deversora Wood Hause Reserve SAC No impacts anticipated Carvaghuel, Kinwara, Carvindridge and Ahnery may lead to cumulative and inferice timpests downstream of the discharge of treated wastewator. This in urn may lead to cumulative and inferice timpests downstream of the discharge point. Changes in water quality may affect habitates leading to habitate loss and reduction in species density. Livagh Complex SAC No impacts anticipated Carvaghuel, Bog AAC No impacts anticipated Livagh Complex SAC No impacts anticipated Livagh Complex SAC No impacts anticipated	Site Name (Site Code)	Potential Impacts
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Site Name (Site Code)	Potential Impacts
Rosturra Wood SAC	No impacts anticipated
Termon Lough SAC	No impacts anticipated
Lough Carra/Mask Complex SAC	No impacts anticipated
Sonnagh Bog SAC	No impacts anticipated
East Burren Complex SAC	No impacts anticipated
Maumturk Mountains SAC	No impacts anticipated
The Twelve Bens/Garraun Complex SAC	No impacts anticipated
Connemara Bog Complex SAC	No impacts anticipated
Slyne Head Peninsula SAC	No impacts anticipated
Corliskea/Trien/Cloonfelliv Bog SAC	No impacts anticipated
Kilkieran Bay and Islands SAC	Development within Carraroe may lead to the pollution of
	watercourses during construction and through the discharge
	of treated wastewater. This in turn may lead to cumulative
	and indirect impacts downstream of the discharge point.
	Changes in water quality may affect habitats leading to
	habitat loss and reduction in species density.
Lough Coy SAC	No impacts anticipated
Barnahallia Lough SAC	No impacts anticipated
Lough Nageeron SAC	No impacts anticipated
Murvey Machair SAC	No impacts anticipated
Tully Lough SAC	No impacts anticipated
Gortacarnaun Wood SAC	No impacts anticipated
Drummin Wood SAC	No impacts anticipated
Glenloughaun Esker SAC	No impacts anticipated
Lough Derg, North-East Shore SAC	Development within Ballinsloe and Portumna may lead to the pollution of watercourses during construction and through the discharge of treated wastewater. This in turn may lead to cumulative and indirect impacts downstream of the discharge point. Changes in water quality may affect habitats leading to habitat loss and reduction in species density.
Ardrahan Grassland SAC	No impacts anticipated
Kingstown Bay SAC	No impacts anticipated
Carrowbaun, Newhall and Ballylee Turloughs SAC	No impacts anticipated
Cahermore Turlough SAC	No impacts anticipated
Ballinduff Turlough SAC	No impacts anticipated
Williamstown Turloughs SAC	No impacts anticipated
Cregg House Stables, Crusheen SAC	No impacts anticipated
Camderry Bog SAC	No impacts anticipated
Curraghlehanagh Bog SAC	No impacts anticipated
Monivea Bog SAC	No impacts anticipated
Ardgraigue Bog SAC	No impacts anticipated

Table 2.4b: SACs within 15km of the Boundary of County Galway

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	Redwood Bog	No impacts anticipated

2.3.3 Elements of the proposed Variation with Potential to Give Rise to Significant Effects

In addition to screening Natura 2000 sites that potentially may be impacted by implementation of the Galway County Development Plan Core Strategy, the policies and objectives contained within the strategy have also been assessed. The assessment process identifies whether these policies and objectives are likely to cause any direct, indirect or secondary impacts (either alone or in combination with other plans or projects) on the Natura 2000 network sites. During this assessment a number of factors were taken into account including the sites' conservation objectives and known threats. The overall aim of the assessment is to attempt predict the consequences that can be *reasonably* foreseen by implementation of a policy or objective.

The policies and objectives contained within the sections of the Development Plan subject to the Core Strategy Variation were originally assessed as part of the Appropriate Assessment of the Galway County Development Plan 2009-2015. Where policies and objectives included in the Core Strategy do not differ significantly from those contained in the CDP, they are not reassessed. The results of the impact assessment are outlined in Tables 2.5 and 2.6. Any changes from the original text used in the Galway County Development Plan 2009-2015 are highlighted in red.

2.3.3.1 Component 1 of the Proposed Variation- Core Strategy and Spatial Planning

The first of two components comprising the Variation is to replace Section 2 - Spatial Planning Strategy - of the County Development Plan with a new Section 2 - Core Strategy and Spatial Planning. The provisions in this replacement chapter comprise Core Aims, Strategic Spatial Planning Policies and amended Strategic Spatial Planning Objectives.

Core Aims	Impact Assessment
1. To provide for the growth of County Galway towards a long term target population of up to 198,500 by 2022 and to distribute that part of the population growth anticipated up to 2016 in line with the settlement strategy as indicated in the West Regional planning guidelines, focusing a greater rate of growth in the Galway Gateway and the Hub town of Tuam. The continuing support for appropriately scaled development in key service towns, local service towns and villages in a sequential mannerwill remain a priority while recognising the role that new infrastructure and public transportation links will play in their future and in maintaining the viability of rural communities in the hinterlands of these towns and villages.	No changes to policy arising from variation to CDP. No further assessment required
 To build on the regional-level linkages between County Galway, the Galway Gateway and other parts of the West Region by supporting the implementation of regional spatial strategies as set out in the West Regional Planning Guidelines 2010 and co- operating on areas of mutual planning interest; 	No changes to policy arising from variation to CDP. No further assessment required
3. To ensure a high level of environmental protection in the implementation of the strategic aims and objectives of the plan through the observance of all legal requirements with regard to Strategic Environmental Assessment and Habitats Directive Assessment as appropriate.	New policy will prevent impacts on Natura 2000 network
Strategic Spatial Planning Policies	Impact Assessment
Policy SP1: The promotion and development of the Galway Gateway and Tuam as a Hub Town – a nationally significant urban centre, whose location and scale support the desired critical mass necessary to sustain strong levels of economic growth and prosperity in the West and a strong, independent hub to support the spatial strategy at national, regional and local level, together with improved connectivity between the gateway and hub to enhance their complementary status and development	No changes to policy arising from variation to CDP. No further assessment required
Policy SP2: Support the role of Ardaun, Garraun and the Galway Metropolitan Area as key elements in the future strategic growth of the Galway Gateway and Galway County in a plan led, sustainable	New policy included as part of the Core Strategy. No negative impacts anticipated from implementation of this

Table 2.5: Assessment of Component 1 of the Proposed Variation - Core Strategy and Spatial Planning

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Objective SP3: The Council will support and seek to secure investment for the advancement of the East Galway Waste Water Treatment Plant and the completion of the Western Rail Corridor and other critical enabling infrastructure identified as necessary to achieve the objectives of the Core Strategy during the plan period.	Construction and operation of infrastructure developed through the implementation of this objective could potentially have direct and/or indirect impacts on the Natura 2000 network through fragmentation of habitats or habitat loss and disturbance of species. Pollution of watercourses may occur during construction and through the discharge of treated wastewater. This in turn may lead to cumulative and indirect impacts on Natura sites downstream of the discharge point.
Objective SP4: The Council will investigate the potential for development of integrated transportation hubs at Tuam, Garraun and at Athenry to maximise the strategic integration of transport and rational land uses.	No changes to objective arising from variation to CDP. No further assessment required
Objective SP5: The Council will seek to manage development and interact with the relevant state bodies and private investors, in order to achieve key strategic objectives, particularly those that relate to the development of the strategic economic corridor. The Council will seek to control inappropriate development or development which may be incompatible with the achievement of key strategic objectives, particularly in relation to the implementation of the Core Strategy and development in the strategic economic corridor.	No significant changes to objective arising from variation to CDP that would affect the original assessment. No further assessment required
Objective SP6: The Council will have regard at all times to the environmental and ecological designations, characteristics and sensitivities in the pursuit of the proposed strategy.	No changes to objective arising from variation to CDP. No further assessment required
Objective SP7: Consider the preparation of sub-county local area plans for geographically cohesive areas such as the coastal belt, the City/County interface areas, south-eastern uplands, etc to bring about greater social, economic and environmental connectivity between settlements and their rural hinterlands.	No changes to objective arising from variation to CDP. No further assessment required
Objective SP8: The Council shall seek to review the Galway Transportation and Land Use Study within the lifetime of the County Development Plan 2009-2015 subject to funding and in cooperation with Galway City Council.	No changes to objective arising from variation to CDP. No further assessment required
Objective SP9: The council shall establish a monitoring and review mechanism to track the implementation of the Core Strategy through the various Local Area Plans and through key indicators for transportation, environmental monitoring and other factors relevant to the wider County Area.	New objective included as part of the Core Strategy. No negative impacts anticipated from implementation of this objective.
Objective SP10: The Council shall undertake a review of all statutorily required Local Area Plans within a year from the date of adoption of the Variation of the County Development Plan to ratify the Core Strategy and ensure that such Local Area Plans are adopted in line with the broad principles of the Core Strategy and the County Development Plan. Other Local Area Plans shall be reviewed in keeping with legislative requirements.	Preparation of local area plans may facilitate further development and growth within a town. Depending on a town's location and existing infrastructure, this may lead to loss of habitats, disturbance/loss of species and changes in water quality and quantity.

2.3.3.2 Component 2 of the Proposed Variation: Introduction of Core Strategy

The second component is to amend various parts of Section 3 - *Settlement Strategy* - of the County Development Plan to ensure that the County settlement strategy is consistent with the settlement hierarchy set out in the proposed Variation, the Regional Planning Guidelines for the West Region 2010 to 2022 and the National Spatial Strategy.

The provisions in this chapter comprise Strategic Settlement Policies and Strategic Settlement Objectives both of which relate to downward revised population allocations. The downward population allocations mean that the intensity of potential adverse environmental effects will be reduced.

Table 2.6: Assessment of Component 1 of the Proposed Variation - Core Strategy and Spatial Planning

Core Aims	Impact Assessment
Policy SS1: It will be the policy of the Council to recognise the role of Galway city and the Gateway concept as of social and economic growth in the County and in the wider Western Region. The Council will support the growth of the strategic settlements including Ardaun and Garraun within the Galway Metropolitan area.	No changes to policy arising from variation to CDP. No further assessment required
Policy SS2: It will be a key policy of the Council to secure the development of Tuam to fulfil its potential as a hub town, catering for the residential, employment, educational, social and retail needs of its target population and for the population of its wider hinterland in north and east Galway.	No changes to policy arising from variation to CDP. No further assessment required
Policy SS3: It will be the policy of Galway County Council to secure the sustainable growth of the key service towns of the county to become self –sufficient settlements and act as service centres for the inhabitants of their rural hinterlands	No changes to policy arising from variation to CDP. No further assessment required
Policy SS4: It will be the policy of Galway County Council to encourage and facilitate where possible, the sustainable, sequential and balanced development of existing settlements along the strategic emerging road and rail corridors as identified in the Core Spatial Strategy.	No significant changes to policy arising from variation to CDP that would affect the original assessment. No further assessment required
Policy SS5: It will be the policy of Galway County Council to support the development of rural areas in a balanced, sustainable manner, having regard to the social, economic and environmental characteristics of the area and its residents and in accordance with the relevant policies and objectives set out elsewhere in the Plan.	No changes to policy arising from variation to CDP. No further assessment required
Policy SS6: In the case of smaller settlements for which no specific plans are available, development shall be considered on the basis of its connectivity, capacity (social, cultural and economic) and compliance with the settlement strategy, good design, community gain (this requirement shall not apply to single houses) and proper planning and sustainable development.	No changes to policy arising from variation to CDP. No further assessment required
Policy SS7: In order to control the scale of development, a deviation in the allocated population of up to 20% will generally be acceptable, between 20% and 30% will be assessed in the context of the group of settlements and the growth experienced by each, over 30% generally will not be accepted. Regard will also be had to the rate of growth in each settlement.	No changes to policy arising from variation to CDP. No further assessment required
Strategic Settlement Objectives	
Objective SS1: Masterplans and/or Local Area Plans for Briarhill, Ardaun and Garraun will be developed as a priority and brought forward for adoption by the Council at the earliest opportunity within the lifetime of the Plan.	No changes to objective arising from variation to CDP. No further assessment required
Objective SS2: Local Area Plans or Development Boundaries will be prepared for all Settlements designated as Local Service Centres Lower Tier Towns.	No significant changes to objective arising from variation to CDP that would affect the original assessment. No further assessment required
Objective SS3: A Local Area Plan for the North Connemara area will be prepared.	No changes to objective arising from variation to CDP. No further assessment required
Objective SS4: Settlement guidelines or Action Area Plans/Local Area Plans for other key settlements in the Gateway Galway Metropolitan Aarea and along strategic public transportation corridors will be prepared as needed during the lifetime of the Plan.	No changes to objective arising from variation to CDP. No further assessment required
Objective SS5: An Action Area Plan for the off-shore Islands will be prepared.	No changes to objective arising from variation to CDP. No further assessment required
Objective SS6: A Local Area Plan for Kilcolgan will be prepared based on the Bearna Local Area Plan template.	No changes to objective arising from variation to CDP. No further assessment required
Objective SS7: To prepare a Local Area Plan as a guidance document for the Carnmore/Galway Airport area to guide future development.	No changes to objective arising from variation to CDP. No further assessment required

2.4 Conclusions

The likely impacts that will arise from the implementation of the proposed Variation have been examined in the context of a number of factors that could potentially affect the integrity of the Natura 2000 network. On the basis of the findings of this Screening for Appropriate Assessment, it is concluded that the proposed Variation:

(i) is not directly connected with or necessary to the management of a Natura 2000 site and

(ii) may have significant impacts on the Natura 2000 network.

Therefore, applying the Precautionary Principle and in accordance with Article 6(3) of the Habitats Directive, a Stage 2 Appropriate Assessment is required. That stage is set out in Section 3 of this report.

Section 3 Stage 2 Appropriate Assessment

3.1 Introduction

The main objective of this stage (Stage 2) in the AA is to determine whether the Plan as varied by the introduction of the Core Strategy (either alone or in combination with other plans, programmes and projects) would result in significant adverse impacts to the integrity of any Natura 2000 site with respect to the site's structure, function and/or conservation objectives.

The Stage 1 Screening has created lists of sites with potential to be affected by the Core Strategy. Therefore, a Stage 2 Appropriate Assessment is required. The potential adverse effects considered at this stage will either be effects occurring as a result of the application of the Core Strategy alone or in-combination with other plans, programmes and/or projects.

3.2 Other Plans and Programmes

Article 6(3) of the Habitats Directive requires an assessment of a plan or project to consider other plans or programmes that might, in combinations with the plan or project, have the potential to adversely impact upon Natura 2000 sites. Table 3.1 lists the plans or projects that may interact with the proposed Variation to cause in-combination effects to Natura 2000 sites. The plans or projects are listed according to a spatial hierarchy of International, National, Regional/Local Projects and Plans.

International		
Directive	Purpose	In-combination Effects
EU Water Framework Directive (2000/60/EC)	Objectives seek to maintain and enhance the quality of all surface waters in the EU.	No risk of likely significant in- combination effects will result as the primary purpose of the Directive is to improve environmental quality.
EU Freshwater Fish Directive (78/659/EEC)	Objectives seek to protect those fresh water bodies identified by Member States as waters suitable for sustaining fish populations. For those waters it sets physical and chemical water quality objectives for salmonid waters and cyprinid waters.	No risk of likely significant in- combination effects will result as the primary purpose of the Directive is to improve environmental quality.
EU Groundwater Directive (2006/118/EC)	This directive establishes a regime, which sets underground water quality standards and introduces measures to prevent or limit inputs of pollutants into groundwater.	No risk of likely significant in- combination effects will result as the primary purpose of the Directive is to improve environmental quality.
EU Floods Directive (2007/60/EC)	The Floods Directive applies to river basins and coastal areas at risk of flooding. With trends such as climate change and increased domestic and economic development in flood risk zones, this poses a threat of flooding in coastal and river basin areas.	Potential in-combination impacts may arise where there is a requirement to provide for new infrastructure such as flood walls or flood defences. Avoidance on, or near protected areas should be implemented or where this is not possible, favouring infrastructure that carries a lower risk of damage to protected areas should be emphasised in the plan.
Nitrates Directive (91/676/EEC)	This Directive has the objective of reducing water pollution caused or induced by nitrates from agricultural sources and preventing further pollution.	No risk of likely significant in- combination effects will result as the primary purpose of the Directive is to improve environmental quality.
The Urban Wastewater Treatment Directive (91/271/EEC)	The primary objective is to protect the environment from the adverse effects of	No risk of likely significant in- combination effects will result as the

Table 3.1 Plans & Projects Likely to Cause In-Combination Effects

	discharges of urban wastewater, by the provision of urban wastewater collecting systems (sewerage) and treatment plants for urban centres. The Directive also provides general rules for the sustainable disposal of sludge arising from wastewater treatment.	primary purpose of the Directive is to improve environmental quality.
Sewage Sludge Directive (86/278/EEC)	Objective is to encourage the appropriate use of sewage sludge in agriculture and to regulate its use in such a way as to prevent harmful effects on soil, vegetation, animals and man. To this end, it prohibits the use of untreated sludge on agricultural land unless it is injected or incorporated into the soil.	No risk of likely significant in- combination effects will result as the primary purpose of the Directive is to improve environmental quality.
The Integrated Pollution Prevention Control Directive (96/61/EC)	Objective is to achieve a high level of protection of the environment through measures to prevent or, where that is not practicable, to reduce emissions to air, water and land from industrial sources.	No risk of likely significant in- combination effects will result as the primary purpose of the Directive is to improve environmental quality.
National		
Plan	Purpose	In-combination Effects
National Development Plan 2007-2013	Objectives of the NDP are to promote more balanced spatial and economic development.	Potential in-combination impacts may arise where there is a requirement to provide for new infrastructure.
National Spatial Strategy 2002-2020	Objectives of the NSS are to achieve a better balance of social, economic and physical development across Ireland, supported by more effective planning.	Potential in-combination impacts may arise where there is a requirement to provide for new infrastructure.
Regional		
West Regional Planning Guidelines 2010-2022	Policy document which aims to direct the future growth of the Greater Dublin Area over the medium to long term and works to implement the strategic planning framework set out in the National Spatial Strategy (NSS)	Potential in-combination impacts may arise where there is a requirement to provide for new infrastructure.
	Local	
Mayo County Development Plan 2008 - 2014		Galway shares its boundary with a number of midland counties. Furthermore a number of Natura 2000
Roscommon County Development Plan 2008 - 2014		sites are located in more than one county. Similar development plans are
Offaly County Development Plan 2009 - 2015		in existence throughout the region, accordingly these plans acting alone or in combination can have a cumulative
North Tipperary County Development Plan 2010 - 2016		impact on Natura 2000 sites located within County Galway.
Clare County Development Plan 2011 -		

3.3 Conservation Objectives

It is the goal of NPWS to draw up conservation plans for all areas designated for nature conservation. These plans will, among other things, set clear objectives for the conservation of the features of interest within a site. Where no Management Plan is yet available, NPWS have provided generic Conservation Objectives for Natura 2000 Sites

One generic Conservation Objectives has been provided for SPAs, as follows:

• To maintain the bird species of special conservation interest for which the SPA has listed, at favourable conservation status.

Generic Conservation Objectives for cSACs have been provided as follows:

- To maintain Annex I habitats and Annex II species for which the cSAC has been selected at favourable conservation status.
- To maintain the extent species richness and biodiversity of the entire site.
- To establish effective liaison and co-operation with landowners, legal users and relevant authorities.

Favourable conservation status of a species can be described as being achieved when: "population data on the species concerned indicate that it is maintaining itself, and the natural range of the species is neither being reduced or likely to be reduced for the foreseeable future, and there is, and will probably continue to be, a sufficiently large habitat to maintain its populations on a long-term basis."

Favourable conservation status of a habitat can be described as being achieved when: '*its natural range, and area it covers within that range, is stable or increasing, and the ecological factors that are necessary for its long-term maintenance exist and are likely to continue to exist for the foreseeable future, and the conservation status of its typical species is favourable*.

Conservation Objectives, where available, were downloaded from the NPWS website (<u>www.npws.ie</u>) in May 2011. Conservation Objectives for those sites screened in at Stage 1 Screening are given in Table 3.2 and 3.3.

Site Name	Conservation Objectives
Inner Galway Bay SPA	Generic Objectives Apply
Lough Corrib SPA	Generic Objectives Apply
Lough Cutra SPA	Generic Objectives Apply
Lough Derg (Shannon) SPA	Generic Objectives Apply
Middle Shannon Callows SPA	Objective 1: To maintain the favourable conservation status of the Special Conservation Interests of the SPA.
	• Whooper Swan (<i>Cygnus cygnus</i>) [A038]
	• Wigeon (<i>Anas penelope</i>) [A050]
	Corncrake (<i>Crex crex</i>) [A122]
	Golden Plover (<i>Pluvialis apricaria</i>) [A140]
	Lapwing (Vanellus vanellus) [A142]
	Black-tailed Godwit (<i>Limosa limosa</i>) [A156]
	Black-headed Gull (Larus ridibundus) [A179]
	Wetlands & Waterbirds [A999]
	Objective 2: To maintain the extent, species richness and biodiversity of the entire site.
	Objective 3: To establish effective liaison and co-operation with landowners, legal users and relevant authorities.
River Suck Callows SPA	Generic Objectives Apply
Coole-Garryland SPA	Objective 1: To maintain the favourable conservation status of the Qualifying Interests of the SAC, or the Special Conservation Interests of the SPA.
	• Whooper Swan (<i>Cygnus cygnus</i>) [A038]
	Objective 2: To maintain the extent, species richness and biodiversity of the entire site.
	Objective 3: To establish effective liaison and co-operation with landowners, legal users and relevant authorities.
Lough Rea SPA	Generic Objectives Apply
Cregganna Marsh SPA	Generic Objectives Apply

Table 3.2: Conservation Objectives SPAs

Site Name	Conservation Objectives
River Shannon And River Fergus Estuaries SPA	Generic Objectives Apply

Table 3.3: Conservation Objectives for SACs

Site Name (Site Code)	Conservation Objectives
River Shannon Callows SAC	Objective 1: To maintain the favourable conservation status of the Qualifying Interests of the SAC.
	Otter (Lutra lutra) [1355]
	 Molinia meadows on calcareous, peaty or clavey-silt-laden soils (Molinion caeruleae) [6410]
	 Lowland hay meadows (Alopecurus pratensis, Sanguisorba officinalis) [6510]
	Limestone pavements [8240]
	 Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae) [91E0]
	Objective 2: To maintain the extent, species richness and biodiversity of the entire site.
	Objective 3: To establish effective liaison and co-operation with landowners, legal users and relevant authorities.
Galway Bay Complex SAC	Objective 1: To maintain the favourable conservation status of the Qualifying Interests of the SAC.
	 Mudflats and sandflats not covered by seawater at low tide [1140] Coastal lagoons [1150] Large shallow inlets and bays [1160] Reefs [1170] Perennial vegetation of stony banks [1220] Salicornia and other annuals colonizing mud and sand [1310] Atlantic salt meadows (Glauco-Puccinellietalia maritimae) [1330] Otter (Lutra lutra) [1355] Common seal (Phoca vitulina) [1365] Mediterranean salt meadows (Juncetalia maritimi) [1410] Turloughs [3180] Juniperus communis formations on heaths or calcareous grasslands [5130] Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia)(*important orchid sites) [6210] Calcareous fens with Cladium mariscus and species of the Caricion davallianae [7210] Alkaline fens [7230] Objective 2: To maintain the extent, species richness and biodiversity of the entire site. Objective 3: To establish effective liaison and co-operation with landowners, legal users and relevant authorities.
Lough Corrib SAC	Objective 1: To maintain the favourable conservation status of the Qualifying Interests of the SAC. • Freshwater pearl mussel (Margaritifera margaritifera) [1029] • White-clawed crayfish (Austropotamobius pallipes) [1092] • Sea lamprey (Petromyzon marinus) [1095] • Brook lamprey (Lampetra planeri) [1096] • Salmon (Salmo salar) [1106] • Lesser horseshoe bat (Rhinolophus hipposideros) [1303] • Otter (Lutra lutra) [1355] • Shining sickle moss (Drepanocladus vernicosus) [1393] • Slender naiad (Najas flexilis) [1833] • Oligotrophic waters containing very few minerals of sandy plains (Littorelletalia uniflorae) [3110] • Hard oligo-mesotrophic waters with benthic vegetation of Chara spp. [3140]

Site Name (Site Code)	Conservation Objectives
	 Water courses of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion vegetation [3260] Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia) (*important orchid sites) [6210] Molinia meadows on calcareous, peaty or clavey-silt-laden soils (Molinion caeruleae) [6410] Active raised bogs [7110] Degraded raised bogs still capable of natural regeneration [7120] Depressions on peat substrates of the Rhynchosporion [7150] Calcareous fens with Cladium mariscus and species of the Caricion davallianae [7210] Petrifying springs with tufa formation (Cratoneurion) [7220] Alkaline fens [7230] Limestone pavements [8240] Old sessile oak woods with Ilex and Blechnum in British Isles [91A0] Bog woodland [91D0] Objective 3: To establish effective liaison and co-operation with landowners, legal users and relevant authorities.
Lough Rea SAC	Objective 1: To maintain the favourable conservation status of the Qualifying Interests of the SAC.
	 Hard oligo-mesotrophic waters with benthic vegetation of Chara spp. [3140] Objective 2: To maintain the extent, species richness and biodiversity of the entire site. Objective 3: To establish effective liaison and co-operation with landowners, legal
Kilkieran Bay and Islands SAC	users and relevant authorities. Objective 1: To maintain the favourable conservation status of the Qualifying Interests of the SAC. Mudflats and sandflats not covered by seawater at low tide [1140] Coastal lagoons [1150] Large shallow inlets and bays [1160] Reefs [1170] Atlantic salt meadows (Glauco-Puccinellietalia maritimae) [1330] Otter (Lutra lutra) [1355] Common seal (Phoca vitulina) [1365] Mediterranean salt meadows (Juncetalia maritimi) [1410] Slender naiad (Najas flexilis) [1833] Machairs [21A0]
	 Lowland hay meadows (Alopecurus pratensis, Sanguisorba officinalis) [6510] Objective 2: To maintain the extent, species richness and biodiversity of the entire site. Objective 3: To establish effective liaison and co-operation with landowners, legal users and relevant authorities.
Lough Derg, North-East Shore SAC	 Objective 1: To maintain the favourable conservation status of the Qualifying Interests of the SAC. Juniperus communis formations on heaths or calcareous grasslands [5130] Calcareous fens with Cladium mariscus and species of the Caricion davallianae [7210] Alkaline fens [7230] Limestone pavements [8240] Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicionalbae) [91E0] Taxus baccata woods of the British Isles [91J0] Objective 2: To maintain the extent, species richness and biodiversity of the entire site. Objective 3: To establish effective liaison and co-operation with landowners, legal users and relevant authorities.

Site Name (Site Code)	Conservation Objectives
Lower River Shannon	Objective 1: To maintain the favourable conservation status of the Qualifying Interests of the SAC. • Freshwater pearl mussel (Margaritifera margaritifera) [1029] • Sea lamprey (Petromyzon marinus) [1095] • Brook lamprey (Lampetra planeri) [1096] • River lamprey (Lampetra planeri) [1096] • Sandbanks which are slightly covered by sea water all the time [1110] • Estuaries [1130] • Mudflats and sandflats not covered by seawater at low tide [1140] • Coastal lagoons [1150] • Large shallow inlets and bays [1160] • Reefs [1170] • Perennial vegetation of stony banks [1220] • Vegetated sea cliffs of the Atlantic and Baltic coasts [1230] • Salicornia and other annuals colonizing mud and sand [1310] • Atlantic salt meadows (Glauco-Puccinellietalia maritimae) [1330] • Bottle-nosed dolphin (Tursiops truncatus) [1349] • Otter (Lutra lutra) [1355] • Mediterranean salt meadows (Juncetalia maritimi) [1410] • Water courses of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion vegetation [3260] • Molinia meadows on calcareous, peaty or clavey-silt-laden soils (Molinion caeruleae) [6410] Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae) [91E0] Objective 2: To maintain the extent, species richness and biodiversity

3.4 Potential Significant Effects

The impacts that may occur through the implementation of the Core Strategy Variation have been previously outlined in Section 2.3.2 of this NIS. These impacts may be considered significant where inappropriate development takes place either within or close to a Natura 2000 site. Such development either in isolation or in combination with other similar developments can potentially lead to significant adverse impacts on the environment with long term consequences. Such impacts may be through direct habitat loss or through point source emissions leading to a deterioration in water quality.

Any increase in population within the towns and settlements affected by the Core Strategy Variation will increase the loading on the existing wastewater infrastructure. In the absence of adequate treatment, discharges from such plants can potentially increase the nutrient loading on receiving waters with direct, long term and adverse consequences for the aquatic environment.

It is therefore concluded that the implementation of the Core Strategy Variation has the potential to cause long term, direct and indirect adverse impacts on the protection and conservation of Natura 2000 sites.

3.5 Integrity of Site Checklist

Generally as part of a Stage 2 Appropriate Assessment a checklist of site integrity is carried out. This aids in determining whether a plan will have a significant adverse effect on a Natura 2000 site. This checklist is taken from "Assessment of Plans and Projects Significantly Affecting Natura 2000 Sites: Methodological guidance on the provisions of Article 6(3) and (4) of the Habitats Directive 92/43/EEC".

Table 3.4:	Integrity o	f Site Checklist
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Conservation objectives		
Does the project or plan have the potential to:	Yes/No	
Cause delays in progress towards achieving the conservation objectives of the site?	Yes	
Interrupt progress towards achieving the conservation objectives of the site?	Yes	
Disrupt those factors that help to maintain the favourable conditions of the site?	Yes	
Interfere with the balance, distribution and density of key species that are the indicators of the favourable condition of the site?	Yes	
Other indicators - Does the project or plan have	the potential to:	
Cause changes to the vital defining aspects (e.g. nutrient balance) that determine how the site functions as a habitat or ecosystem?	Yes	
Change the dynamics of the relationships (between, for example, soil and water or plants and animals) that define the structure and/or function of the site?	Yes	
Interfere with predicted or expected natural changes to the site (such as water dynamics or chemical composition)?	Yes	
Reduce the area of key habitats?	Yes	
Reduce the population of key species?	Yes	
Change the balance between key species?	Yes	
Reduce diversity of the site?	Yes	
Result in disturbance that could affect population size or density or the balance between key species?	Yes	
Result in fragmentation?	Yes	
Result in loss or reduction of key features (e.g. tree cover, tidal exposure, annual flooding, etc?	Yes	

Section 4 Mitigation Measures

4.1 Introduction

Where a likely significant adverse effect has been identified during an Appropriate Assessment or cannot conclusively be ruled out, it may be possible to proceed with a proposal where mitigation measures can be implemented to address the adverse effect. This section outlines the mitigation measures proposed.

4.2 Ecology

The propose Variation shall support the objectives and actions contained in the County Galway Biodiversity Action Plan 2008 - 2013 (Galway County Council, 2008) (Implemented in the Galway CDP through policy HL4)

No projects giving rise to significant adverse direct, indirect or secondary impacts on Natura 2000 sites arising from their size or scale, land take, proximity, resource requirements, emissions (disposal to land, water or air), transportation requirements, duration of construction, operation, decommissioning or from any other effects shall be permitted on the basis of this propose Variation (either individually or in combination with other plans or projects)². (Implemented in the Galway CDP through policies HL31 to HL 35)

All subsequent plan-making and adoption of plans under the control of Galway County Council arising from this proposed Variation will be screened for the need to undertake Appropriate Assessment under Article 6 of the Habitats Directive. (Implemented in the Galway CDP through policy HL46)

Galway Council will set up procedures to ensure that any development, project, etc would take cognisance of the existing impacts on Natura 2000 sites and assess the cumulative and "in combination" effects that said plans and projects may have on any Natura 2000 site and to ensure compliance with the requirements of Article 6 of the Habitats Directive. (Implemented in the Galway CDP through policy HL47)

No ecological networks or parts thereof which provide significant connectivity between areas of local biodiversity are to be lost without remediation as a result of implementation of the CDP. (Implemented in the Galway CDP through policy HL48)

Galway County Council shall protect wetlands, and associated surface and groundwater systems within the Plan area. (Implemented in the Galway CDP through policy HL49)

Galway County Council shall ensure that, in the supply of services and in zoning of lands and authorisation of development, the threatened habitats and species* which occur within and adjoining the Plan area are not placed under further risk of deterioration (habitats) or reduction in population size (species). *As identified in the National Parks and Wildlife "*The Status of EU Protected Habitats and Species in Ireland*", (*NPWS, Department of the Environment, Heritage and Local Government, 2008).* Galway County Council shall ensure that plan formulation and development control shall take into account the relevant "*Major Pressures reported in the assessment of Habitats and Species*" and *the "Main Objectives Over The Coming Five Years and Beyond*" contained in the above publication. (Implemented in the Galway CDP through policy HL50)

² Except as provided for in Section 6(4) of the Habitats Directive, viz. There must be:

⁽a) no alternative solution available,

⁽b) imperative reasons of overriding public interest for the plan to proceed; and

⁽c) adequate compensatory measures in place.

4.3 Water Protection

Galway Council shall address the significant water management issues identified in the Water Matters Consultation publications for the relevant RBDs. (Implemented in the Galway CDP through policy HL88)

The relevant policies and objectives of the Western and Shannon River Basin Management Plans and associated Programmes of Measures shall be integrated into the Plan through amendment or otherwise. (Implemented in the Galway CDP through policy HL89)

Galway Council shall ensure that the ongoing development of Towns and their Environs are undertaken in such a way so as not to compromise the quality of surface water (and associated habitats and species) and groundwater within the zone of influence of the Development Plan area. (Implemented in the Galway CDP through policy HL90)

Landuses shall not give rise to the pollution of ground or surface waters during the construction or operation of developments. This shall be achieved through the adherence to best practice in the design, installation and management of systems for the interception, collection and appropriate disposal or treatment of all surface waters and effluents. (Implemented in the Galway CDP through policy HL91)

4.4 Waste Water

A review of waste water treatment capacity found that there was limited to no wastewater capacity available in Oranmore, Athenry, Gort, Barna, Claregalway, Craughwell, Clifden, Carraroe, Kinvara, Spiddal, Oughterard, Clarinbridge and Mountbellew. In order to mitigate impacts on water quality through development within these towns the following mitigation measures shall be adhered to:

- Development under the Plan shall be preceded by sufficient capacity in the public waste water treatment plants and appropriate extensions in the existing public waste water treatment catchments. (Implemented in the Galway CDP through policy IS15)
- Galway County Council shall implement the relevant recommendations set out in *Urban Waste Water Discharges in Ireland for Population Equivalents Greater than 500 Persons – A Report for the Years 2004* and 2005 *Office of Environment Enforcement- EPA, 2007.* (Implemented in the Galway CDP through policy IS16)
- Galway County Council shall provide a waste water treatment plant to meet current water quality standards, with adequate capacity to treat foul drainage arising from the drainage network associated with the WWTP Clifden area. Temporary waste water treatment facilities will be considered in the interim and provided in the event of any new development that would add to the waste loading being permitted. No new development that would add to the existing waste water treatment facility will be permitted. (Implemented in the Galway CDP through policy IS17)
- Galway County Council shall examine the feasibility of connecting of unsewered, areas including individual properties/ premises, serviced by septic tanks to existing and planned sewer networks. (Implemented in the Galway CDP through policy IS18)

Section 5 Conclusion

Stage 1 Screening and Stage 2 Appropriate Assessment of the Galway County Development Plan Core Strategy Variation has been carried out. Implementation of the Core Strategy Variation has the potential to result in impacts to the integrity of the Natura 2000 network, if unmitigated.

The risks to the safeguarding and integrity of the qualifying interests and conservation objectives of the Natura 2000 network have been addressed by the inclusion of a mitigation measures that will prioritise the avoidance of impacts in the first place and mitigate impacts where these cannot be avoided. In addition, all lower level plans arising through the implementation of the Core Strategy Variation will themselves be subject to Appropriate Assessment when further details of design and location are known.

Having incorporated mitigation measures, it is considered that the proposed Variation will not have a significant adverse effect on the integrity of the Natura 2000 network.