



SLANE BYPASS & PUBLIC REALM ENHANCEMENT SCHEME

ENVIRONMENTAL IMPACT ASSESSMENT REPORT

Volume 2 – Main Environmental Impact Assessment Report



Tionscadal Éireann
Project Ireland
2040



An Roinn Iompair
Department of Transport



Bonneagar Iompair Éireann
Transport Infrastructure Ireland



comhairle chontae na mí
meath county council



WESTMEATH NATIONAL ROADS OFFICE

Óifig na hIarmhí um Bhóithre Náisiúnta



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Preface

Glossary & Acronyms

PREFACE

Meath County Council (MCC), under the auspices of Transport Infrastructure Ireland (TII), are developing a bypass of Slane village to address a sub-standard section of the existing N2 National Primary Route. The scheme also encompasses traffic management measures within Slane, together with works on the N51 between the proposed bypass and the centre of the village, and proposals for the public realm in Slane village. The collective elements together make up the N2 Slane Bypass and Public Realm Enhancement Scheme – the ‘Proposed Scheme’.

MCC have appointed RPS to prepare the Environmental Impact Assessment Report (EIAR) to support the planning application for the Proposed Scheme to An Bord Pleanála.

The EIAR is laid out in four volumes, as outlined in the preface at the start of each Volume of the EIAR for clarity. The volumes and titles that make up the full EIAR are:

- **Volume 1: Non-Technical Summary**

This provides a non-technical summary of the information contained in Volumes 2, 3 and 4.

- **Volume 2: Main EIAR**

This provides general information on the Proposed Scheme and presents the environmental assessments of the Proposed Scheme on the receiving environment.

- **Volume 3: Technical Drawings**

This volume provides the technical design drawings and illustrations, including photomontages, to support Volume 2 and is specific to the Proposed Scheme.

- **Volume 4: Technical Appendices**

This volume includes technical detail and raw data referenced in Volume 2.

VOL. 2 PREFACE AND GLOSSARY / ACRONYMS

GLOSSARY / ACRONYMS

Term	Meaning
%ile	Percentile
1V:2H	A vertical slope/rise of 1 unit to a horizontal run of 2 units
AA	Appropriate Assessment
AADT	Annual Average Daily Traffic (expressed in vehicles per day)
ABP	An Bord Pleanála
ACA	Architectural Conservation Area
AEP	Annual Exceedance Probability
AFA	Area for Further Assessment
AOD	Above Ordnance Datum
AQG	Air Quality Guideline
AQSV	Air Quality Standard Value
BaU	Business as Usual
BCI	Bat Conservation Ireland
BCR	Benefit to Cost Ratio
BoCCI	Birds of Conservation Concern in Ireland
BOD	Biological Oxygen Demand
C ₆ H ₆	Benzene
CAFE	Clean Air for Europe (Directive)
CAP	Climate Action Plan
CBA	Cost-Benefit Analysis
CBR	California Bearing Ratio
CEMP	Construction Environmental Management Plan
CFRAMS	Catchment Flood Risk Assessment and Management Study
Ch.	Chainage (measured in metres)
CIA	Cumulative Impact Assessment
CIRIA	Construction Industry Research and Information Association
CLO	Community Liaison Officer
CLRTAP	Convention on Long Range Transboundary Air Pollution
CO	Carbon Monoxide
CO ₂	Carbon Dioxide
CPO	Compulsory Purchase Order
CRTN	Calculation of Road Traffic Noise
cSAC	Candidate Special Area of Conservation
CSO	Central Statistics Office
DAFM	Department of Agriculture, Food and the Marine
DAU	Development Applications Unit
dB	Decibel - unit of sound pressure level, calculated as a logarithm of the intensity of sound
dB(A)	Decibel (weighted) - unit used to measure the intensity of sound levels "A" weighted"
DAFM	Department of Agriculture, Food and the Marine
DECC	Department of Environment, Climate and Communications
DHLGH	Department of Housing, Local Government and Heritage
DMRB	Design Manual for Roads and Bridges
DoT	Department of Transport

VOL. 2 PREFACE AND GLOSSARY / ACRONYMS

Term	Meaning
DTM	Digital Terrain Model (bare-earth only i.e. does not include the elevation of surface features)
DSM	Digital Surface Model (includes surface features such as buildings and vegetation)
DTTAS	Department of Transport, Tourism and Sport
DVO	District Veterinary Office
FEC	European Commission
ECFRAM	Eastern Flood Risk Assessment and Management
EclA	Ecological Impact Assessment
ECOW	Environmental Clerk of Works
EIA	Environmental Impact Assessment
EIAR	Environmental Impact Assessment Report
EIS	Environmental Impact Statement
EMR	Eastern-Midlands Region
EMRA	Eastern and Midland Regional Assembly
EOP	Environmental Operating Plan
EPA	Environmental Protection Agency
EQS	Environmental Quality Standards
EU	European Union
EWZ	Earthworks Zone
FRA	Flood Risk Assessment
GGBS	Ground Granulated Blast-furnace Slag (a type of cement)
GHG	Greenhouse Gas
GI	Ground Investigation
GIS	Geographic Information System
GNI	Gas Networks Ireland
GPR	Ground Penetrating Radar
GSI	Geological Survey of Ireland
GWB	Groundwater Body
ha	Hectare (one ha equal to 10,000 square meters)
HAWRAT	Highways Agency Water Risk Assessment Tool
HCV	Heavy Commercial Vehicle
HDPE	High Density Polyethylene
HEWRAT	Highways England Water Risk Assessment Tool (updated name for HAWRAT)
HGV	Heavy Goods Vehicle
HIA	Heritage Impact Assessment
HRA	Hot-Rolled Asphalt
HV	High Voltage (electricity cable)
Hz	Hertz
IAAS	Invasive Alien Animal Species
IAPS	Invasive Alien Plant Species
IAS	Invasive or Alien Species (can refer to either animals or plants)
ICOMOS	International Council on Monuments and Sites
IEF	Important Ecological Feature
IFI	Inland Fisheries Ireland
IGI	Institute of Geologists of Ireland
km	Kilometres

VOL. 2 PREFACE AND GLOSSARY / ACRONYMS

Term	Meaning
km/h	Kilometres per hour
kV	Kilovolt, a unit of electromotive force equal
L _A	A-weighting represents the response of the human ear to sound
L _{A10,T}	Noise level exceeded for 10% of the measurement over a period of time (T)
L _{Aeq,T}	Continuous equivalent A-weighted sound pressure level. "Average" of the sound pressure level over a period of time (T)
LCA	Landscape Character Assessment
L _{den}	The day-evening-night composite noise indicator adopted by the EU for the purposes of assessing overall annoyance.
LLO	Landowner Liaison Officer
LMA	Lands Made Available
L _{night}	The A-weighted long term average sound level as defined in ISO1996-2: 1987, determined over all the night periods of a year.
LV	Low Voltage (electricity cable)
L VIA	Landscape and Visual Impact Assessment
m ³	Metres cubed, a measure of volume
mAOD	Metres above Ordnance datum
mBGL	Metres Below Ground Level
MCA	Multi-criteria Analysis
MCC	Meath County Council
Meath CDP	Meath County Development Plan 2021-2027
MRFS	Mid-range Future Scenario which represents a 'likely' future scenario
Mt	Million Tonnes
MV	Medium Voltage Electricity Cables
N2	N2 National Primary Road
N51	N51 National Secondary Road
NBDC	National Biodiversity Data Centre
NDP	National Development Plan
NECD	National Emissions Ceilings Directive
NHA	Natural Heritage Area
NH ₃	Ammonia
NIAH	National Inventory of Architectural Heritage
NIFM	National Indicative Fluvial Mapping
NIFTI	National Investment Framework for Transport in Ireland
NIS	Natura Impact Statement
NMS	National Monuments Service
NMVOC	Non-methane Volatile Organic Compound
NO	Nitric Oxide
NO ₂	Nitrogen Dioxide
NO _x	Nitrogen Oxides
NPF	National Planning Framework
NPWS	National Parks and Wildlife Service
NRA	National Roads Authority
NSL	Noise Sensitive Location
NTA	National Transport Authority
NTS	Non-technical Summary

VOL. 2 PREFACE AND GLOSSARY / ACRONYMS

Term	Meaning
OD	Ordnance Datum
OHL	Overhead Line
OPW	Office of Public Works
OSi	Ordnance Survey Ireland
OUV	Outstanding Universal Value
PAG	Project Appraisal Guidelines
PAH	Polycyclic Aromatic Hydrocarbon
PBR	Potential Bat Roost
PCU	Passenger Car Unit
pH	Potential of hydrogen – scale used to specify acidity/ basicity of an aqueous solution
PI	Petrol Interceptor
PM	Particulate Matter
PM ₁₀	Particulate matter measuring 10 micrometres or less in diameter
PM _{2.5}	Particulate matter measuring 2.5 micrometres or less in diameter
Pb	Lead
PMG	Project Management Guidelines
pNHA	Proposed Natural Heritage Areas
ppb	Parts Per Billion
ppm	Parts Per Million
PPV	Peak Particle Velocity
PRAI	Property Registration Authority of Ireland
PSV	Polished Stone Value
PV	Protected View
PVB	Present Value Benefits
PWS	Public Water Supply
Q _{bar}	Mean annual flood i.e. value of the average annual flood event recorded in a river
Q Value	EPA standardized biotic index representing water quality
QI	Qualifying Interest (of a Special Conservation Area)
RBMP	River Basin Management Plan
REM	Road Emissions Model
RMP	Record of Monuments and Places
RMS	Root Mean Square i.e. of the amplitude of a continuous pressure signal in a specified frequency band for a specified averaging time
RPS	Record of Protected Structures
RSA	Road Safety Authority
RSES	Regional Spatial and Economic Strategy
RWB	River Water Body
RWMP	Resource and Waste Management Plan
SAC	Special Area of Conservation
SCI	Special Conservation Interest (of a Special Protection Area)
SEL	Sound Exposure Level i.e. the time integral of the square pressure over a time window long enough to include the entire pressure signal characteristic. SEL values are calculated in one second intervals
SFILT	Strategic Framework on Investment in Land Transport
SLM	Specific Landscape Mitigation/measures
SMA	Stone Mastic Asphalt
SMR	Sites and Monuments Record

VOL. 2 PREFACE AND GLOSSARY / ACRONYMS

Term	Meaning
SO ₂	Sulfur Dioxide
SPA	Special Protection Area
Spp.	Several Species
SuDS	Sustainable Drainage System
TEN-T	Trans-European Network – Transport
TII	Transport Infrastructure Ireland
TM	Traffic Management
TOC	Total Organic Carbon
TSS	Total Suspended Solids
TUBA	Transport Users Benefit Analysis
UG	Underground (referring to electricity cables)
UNESCO	United Nations Educational, Scientific and Cultural Organization
UWWTD	Urban Waste Water Treatment Directive
VGS	Vortex Grit Separator
VOC	Volatile Organic Compound
VP	View Point
WFD	Water Framework Directive
WHO	World Health Organization
WHP	World Heritage Property (used interchangeably with World Heritage Site)
WHS	World Heritage Site (used interchangeably with World Heritage Property)
WP	Working Platform
WTP	Water Treatment Plant
WWTP	Waste Water Treatment Plant
Zol	Zone of Influence
ZVI	Zone of Visual Influence
ZTV	Zone of Theoretical Visibility

Table of Contents

TABLE OF CONTENTS

Volume 2 Main EIAR – Part 1 of 2

1	INTRODUCTION	1-1
1.1	Purpose of this Report	1-1
1.2	Aims of the Scheme	1-1
1.3	Environmental Impact Assessment	1-3
1.3.1	Requirement for EIA	1-3
1.3.2	Other Relevant Requirements to inform the Application	1-5
1.3.3	EIA Process	1-7
1.3.4	Key Stages of EIA	1-9
1.4	Structure of the EIAR	1-13
1.5	Study Team	1-14
1.6	Chapter References	1-18
2	BACKGROUND AND NEED FOR THE SCHEME	2-1
2.1	Background	2-1
2.2	Planning and Policy Context	2-2
2.2.1	National Policy and Objectives	2-3
2.2.2	Regional Policy	2-10
2.2.3	Local Policy	2-12
2.2.4	Policy Conclusion	2-17
2.3	Scheme-specific Need	2-17
2.3.1	Overview of Existing Road Network	2-18
2.3.2	High Volumes of HGVs	2-22
2.3.3	Limited Facilities and Reduced Safety for Vulnerable Road Users	2-23
2.3.4	Proximity of Houses/Properties and Number of Direct Accesses	2-27
2.3.5	Poor Level of Service on the N2	2-28
2.3.6	Conclusion	2-29
2.4	Chapter References	2-30
3	CONSIDERATION OF ALTERNATIVES	3-1
3.1	Introduction	3-1
3.2	Approach to Consideration of Alternatives	3-1
3.2.1	Option Selection Approach	3-2
3.2.2	Design and Construction Stage Alternatives Approach	3-3
3.3	Option Selection	3-3
3.3.1	Stage 1 Appraisal	3-3
3.3.2	Stage 2 Appraisal	3-13

VOL. 2 TABLE OF CONTENTS

3.3.3	Summary and Rationale for Choosing Option EG	3-16
3.3.4	Further Refinement of Preferred Bypass Option	3-19
3.3.5	Preliminary Boyne Bridge Design Considerations	3-22
3.3.6	Other Design Considerations – Consideration of Preferred Cross-section	3-22
3.4	Design Stage Alternatives	3-25
3.4.1	Boyne Bridge Form Design Options	3-25
3.4.2	Boyne Bridge Pier Design Options	3-32
3.4.3	Overbridge Design Options	3-34
3.4.4	Shared Use Cycle and Pedestrian Bridge Design Options	3-35
3.5	Construction Alternatives	3-38
3.5.1	Construction Compound Locations	3-38
3.5.2	Boyne Crossing – Temporary Working Platform Options	3-43
3.6	Public Realm Alternatives	3-50
3.6.1	Initial Considerations	3-50
3.6.2	Residual Traffic Management Options	3-52
3.6.3	Public Realm Plan	3-52
3.6.4	Public Realm Enhancement Options	3-53
3.7	NIFTI Hierarchies and Option Selection	3-53
3.7.1	Modal Hierarchy	3-54
3.7.2	Intervention Hierarchy	3-55
3.7.3	Conclusion on the NIFTI Hierarchy	3-58
3.8	Chapter References	3-60
4	DESCRIPTION OF THE PROPOSED SCHEME	4-1
4.1	Introduction	4-1
4.2	Overview of the Proposed Scheme	4-2
4.3	Design Standards	4-7
4.4	Proposed Scheme Description	4-8
4.4.1	Mainline	4-8
4.4.2	Cycling Strategy	4-9
4.4.3	Pedestrian Strategy	4-10
4.4.4	Proposed Cycling / Pedestrian Facility along Bypass	4-12
4.4.5	N51 West	4-13
4.4.6	Junctions	4-16
4.4.7	Side Roads	4-17
4.4.8	Pavements	4-18
4.4.9	River Boyne Bridge Crossing	4-20
4.4.10	Other Structures	4-27
4.4.11	Drainage	4-30
4.4.12	Utilities	4-48

VOL. 2 TABLE OF CONTENTS

4.4.13	Public Realm and Traffic Management in Slane	4-53
4.4.14	Other Scheme Design Aspects	4-69
4.4.15	Land and Property Requirements – Permanent	4-73
4.4.16	Design Measures to Offset Impact	4-78
4.5	Operation and Maintenance	4-79
4.5.1	Maintenance Regime	4-79
4.6	Chapter References	4-83
5	DESCRIPTION OF THE CONSTRUCTION PHASE	5-1
5.1	Landuse Requirements	5-1
5.1.1	Landtake	5-1
5.2	Pre-Main Construction Works (Enabling Works)	5-1
5.2.1	Appointment of Project Site Environmental Team	5-1
5.2.2	Enabling Works	5-1
5.2.3	Site Preparation and Clearance Works	5-3
5.3	Sediment and Erosion Controls	5-4
5.3.1	Potential Sources of Sediment Run-off	5-5
5.3.2	Erosion and Sediment Controls	5-5
5.3.3	Sediment Control	5-7
5.3.4	Groundwater Reduction	5-9
5.4	Construction Works	5-9
5.4.1	Construction Compounds	5-9
5.4.2	Site Access Routes	5-12
5.4.3	Works to facilitate continued access and provision of services for landowners affected by the Scheme	5-14
5.4.4	Utility Diversions	5-14
5.4.5	Earthworks	5-14
5.4.6	River Boyne Bridge	5-19
5.4.7	Other Structures	5-19
5.4.8	Drainage	5-20
5.4.9	Road Works	5-21
5.4.10	Public Realm Enhancement in Slane	5-21
5.5	Traffic Impact During Construction	5-23
5.5.1	Traffic Management During Construction	5-23
5.5.2	Construction Traffic Impact	5-24
5.6	Dust, Debris and Noise Management	5-38
5.6.1	Dust	5-38

VOL. 2 TABLE OF CONTENTS

5.6.2	Debris	5-38
5.6.3	Noise and Vibration	5-38
5.7	Resource and Waste Management	5-39
5.8	Construction Health and Safety	5-39
5.9	Employment and Welfare	5-39
5.10	Environmental Management During Construction	5-40
5.11	Environmental Emergency Procedures/Contingency	5-41
5.12	Detailed Construction Methodology and Sequencing	5-41
5.12.1	Site Constraints	5-41
5.12.2	Key Sensitive Receptors	5-42
5.12.3	River Boyne	5-42
5.12.4	Flooding	5-42
5.12.5	Works to facilitate ongoing access and services for landowners affected by the proposed road development	5-42
5.12.6	Site Accesses to Works Areas	5-43
5.12.7	Temporary Closure of Public Roads	5-43
5.12.8	Impact on the Public during Construction	5-43
5.12.9	Site Characteristics	5-43
5.12.10	Construction of River Boyne Bridge	5-45
5.13	Earthworks	5-61
5.13.1	Introduction	5-61
5.13.2	Drainage Phase 1	5-61
5.13.3	Phase 2 Earthworks	5-63
5.13.4	Earthwork Zone Sequencing	5-69
5.13.5	Removal of Earthworks Plugs	5-70
5.13.6	Other Sediment Control Measures	5-70
5.14	Construction Phase Programme	5-71
5.14.1	Construction Phase Hours of Operation	5-71
5.14.2	General	5-71
5.14.3	Pre-Main Construction Works (Enabling Works)	5-71
5.14.4	Advance Works	5-71
5.14.5	Main Construction Works	5-72
5.14.6	Public Realm and Traffic Management in Slane	5-77
5.15	Chapter References	5-78
6	CONSULTATION	6-1
6.1	Introduction	6-1

VOL. 2 TABLE OF CONTENTS

6.2	Consultation on Study Area and Constraints	6-2
6.2.1	First Public Consultation	6-2
6.2.2	Other Stakeholder Consultations	6-2
6.3	Consultation on Route Selection	6-4
6.3.1	Second Public Consultation	6-4
6.3.2	Other Stakeholder Consultations	6-5
6.4	Consultation on the Emerging Preferred Route	6-12
6.4.1	Third Public Consultation	6-12
6.4.2	Other Stakeholder Consultations	6-14
6.5	Consultation for the EIA Process	6-16
6.5.1	EIA Scoping Consultation	6-16
6.5.2	Other Stakeholder Consultations	6-22
6.6	Other Consultations	6-23
6.6.1	Public Information Day	6-23
6.6.2	Ongoing Landowner Liaison	6-23
6.6.3	Utilities Consultation	6-23
6.6.4	Public Realm Strategy	6-23
6.6.5	Pre-Application Meetings with An Bord Pleanála	6-23
6.7	Summary of How Consultation Influenced the Proposed Scheme	6-25
6.8	Chapter References	6-26
7	TRAFFIC AND TRANSPORT	7-1
7.1	Introduction	7-1
7.2	Methodology	7-1
7.2.1	Legislation, Policy and Guidance	7-1
7.2.2	Zone of Influence	7-2
7.2.3	Sources of Information to inform the Assessment	7-3
7.2.4	Key Parameters for Assessment	7-9
7.2.5	Assessment Criteria and Significance	7-10
7.2.6	Data Limitations	7-10
7.3	Description of Existing Environment (Baseline Scenario)	7-11
7.3.1	Baseline Daily Traffic Flows	7-11
7.3.2	Baseline Traffic in Slane village	7-14
7.3.3	Baseline Journey Times/Travel Speeds	7-22
7.3.4	Walking and Cycling	7-25
7.3.5	Public Transport	7-27
7.3.6	Boyne Navigation Canal	7-27

VOL. 2 TABLE OF CONTENTS

7.3.7	Evolution of the Environment in the Absence of the Proposed Scheme	7-27
7.3.8	Do-Minimum Journey Times	7-33
7.4	Description of Likely Significant Effects	7-36
7.4.1	Design Year 2041 (Do-Scheme)	7-36
7.4.2	Do-Scheme Journey Times	7-41
7.4.3	Consideration of Induced Traffic	7-49
7.4.4	HGV Surveys	7-49
7.4.5	Walking and Cycling	7-50
7.4.6	Public Transport	7-52
7.4.7	Boyne Navigation Canal	7-52
7.4.8	Cumulative Impacts	7-52
7.5	Mitigation	7-54
7.5.1	Construction Phase	7-54
7.5.2	Operational Phase	7-55
7.6	Monitoring	7-55
7.6.1	Construction Phase	7-55
7.6.2	Operational Phase	7-55
7.7	Chapter References	7-56
8	POPULATION	8-1
8.1	Introduction	8-1
8.2	Methodology	8-1
8.2.1	Legislation, Policy and Guidance	8-1
8.2.2	Zone of Influence	8-2
8.2.3	Sources of Information to Inform the Assessment	8-2
8.2.4	Key Parameters for Assessment	8-2
8.2.5	Assessment Criteria and Significance	8-3
8.2.6	Data Limitations	8-6
8.3	Description of Existing Environment (Baseline Scenario)	8-6
8.3.1	Current Baseline Environment	8-6
8.3.2	Evolution of the Environment in the Absence of the Proposed Scheme	8-12
8.4	Description of Likely Significant Effects	8-13
8.4.1	Construction Phase	8-13
8.4.2	Operational Phase	8-16
8.4.3	Cumulative Impact	8-19
8.5	Mitigation Measures	8-20
8.5.1	Construction Phase	8-20

VOL. 2 TABLE OF CONTENTS

8.5.2	Operational Phase	8-22
8.6	Residual Impacts	8-23
8.7	Monitoring	8-24
8.8	Chapter References	8-24
9	NOISE AND VIBRATION	9-1
9.1	Introduction	9-1
9.2	Methodology	9-1
9.2.1	Legislation, Policy and Guidance	9-1
9.2.2	Zone of Influence	9-3
9.2.3	Sources of Information to Inform the Assessment	9-3
9.2.4	Key Parameters for Assessment	9-6
9.2.5	Assessment Criteria and Significance	9-11
9.2.6	Data Limitations	9-16
9.3	Description of Existing Environment (Baseline Scenario)	9-16
9.3.1	Current Environmental Baseline	9-16
9.3.2	Evolution of the Environment in the Absence of the Proposed Scheme	9-23
9.4	Description of Likely Significant Effects	9-23
9.4.1	Construction Phase	9-23
9.4.2	Operational Phase	9-42
9.4.3	Cumulative Impact	9-45
9.5	Mitigation Measures	9-46
9.5.1	Construction Phase	9-46
9.5.2	Operational Phase	9-49
9.6	Residual Impacts	9-52
9.6.1	Construction Phase	9-52
9.6.2	Operational Phase	9-53
9.7	Monitoring	9-57
9.7.1	Construction Phase	9-57
9.7.2	Operational Phase	9-57
9.8	Chapter References	9-58
10	AIR QUALITY	10-1
10.1	Introduction	10-1
10.2	Methodology	10-1
10.2.1	Legislation, Policy and Guidance	10-1
10.2.2	Zone of Influence	10-3

VOL. 2 TABLE OF CONTENTS

10.2.3	Sources of Information to inform the Assessment	10-4
10.2.4	Key Parameters for Assessment	10-7
10.2.5	Assessment Criteria and Significance	10-7
10.2.6	Data Limitations	10-12
10.3	Description of Existing Environment (Baseline Scenario)	10-12
10.3.1	Current Baseline Environment	10-12
10.3.2	Evolution of the Environment in the Absence of the Proposed Scheme	10-22
10.4	Description of Likely Significant Effects	10-24
10.4.1	Construction Phase	10-25
10.4.2	Operational Phase	10-32
10.4.3	Cumulative Impact	10-41
10.5	Mitigation Measures	10-43
10.5.1	Construction Phase	10-43
10.5.2	Operational Phase	10-44
10.6	Residual Impacts	10-44
10.6.1	Construction Phase	10-44
10.6.2	Operational Phase	10-45
10.7	Monitoring	10-45
10.7.1	Construction Phase	10-45
10.7.2	Operational Phase	10-45
10.8	Chapter References	10-46
11	HUMAN HEALTH	11-1
11.1	Introduction	11-1
11.2	Methodology	11-2
11.2.1	Legislation, Policy and Guidance	11-2
11.2.2	Zone of Influence	11-3
11.2.3	Sources of Information to inform the Assessment	11-3
11.2.4	Key Parameters for Assessment	11-6
11.2.5	Assessment Criteria and Significance	11-6
11.2.6	Data Limitations	11-12
11.3	Description of Existing Environment (Baseline Scenario)	11-12
11.3.1	Current Baseline Environment	11-12
11.3.2	Evolution of the Environment in the Absence of the Proposed Scheme	11-15
11.4	Description of Likely Significant Effects	11-15
11.4.1	Construction Phase	11-15
11.4.2	Operational Phase	11-22

VOL. 2 TABLE OF CONTENTS

11.4.3	Cumulative Impact	11-29
11.5	Mitigation Measures	11-30
11.5.1	Construction Phase	11-30
11.5.2	Operational Phase	11-30
11.6	Residual Impacts	11-31
11.6.1	Construction Phase	11-31
11.6.2	Operational Phase	11-31
11.7	Monitoring	11-31
11.7.1	Construction Phase	11-31
11.7.2	Operational Phase	11-31
11.8	Chapter References	11-31
12	LANDSCAPE AND VISUAL	12-1
12.1	Introduction	12-1
12.2	Methodology	12-1
12.2.1	Legislation, Policy and Guidance	12-1
12.2.2	Zone of Visual Influence	12-6
12.2.3	Sources of Information to inform the Assessment	12-6
12.2.4	Key Parameters for Assessment	12-7
12.2.5	Assessment Criteria	12-7
12.2.6	Data Limitations	12-13
12.3	Description of Existing Environment (Baseline Scenario)	12-13
12.3.1	Current Baseline Environment	12-13
12.3.2	Landscape Character Assessment of County Meath	12-15
12.3.3	Protected Views and Prospects	12-20
12.3.4	Evolution of the Environment in the Absence of the Proposed Scheme	12-22
12.4	Description of Likely Significant Effects	12-22
12.4.1	Construction Stage Landscape Character Impacts	12-22
12.4.2	Operational Stage Landscape Character Impacts	12-25
12.4.3	Construction and Operational Phase Predicted Visual Impacts	12-30
12.4.4	Residential Visual Amenity Assessment	12-55
12.4.5	Cumulative Impact	12-62
12.5	Mitigation Measures	12-62
12.5.1	General Aims and Objectives of Landscape Mitigation Strategy	12-62
12.5.2	Construction Phase	12-63
12.5.3	Operational Phase	12-63
12.6	Residual Impacts	12-74

VOL. 2 TABLE OF CONTENTS

12.7	Monitoring	12-74
12.8	Chapter References	12-75
13	ARCHAEOLOGICAL AND CULTURAL HERITAGE	13-1
13.1	Introduction	13-1
13.2	Methodology	13-1
13.2.1	World Heritage Property HIA	13-2
13.2.2	Legislation, Policy and Guidance	13-5
13.2.3	Zone of Influence	13-6
13.2.4	Sources of Information to Inform the Assessment	13-7
13.2.5	Key Parameters for Assessment	13-10
13.2.6	Assessment Criteria and Significance	13-11
13.3	Description of Existing Environment (Baseline Scenario)	13-13
13.3.1	Current Baseline Environment	13-13
13.3.2	Evolution of the Environment in the Absence of the Proposed Scheme	13-89
13.4	Description of Likely Significant Effects	13-89
13.4.1	Construction Phase	13-89
13.4.2	Operational Phase	13-96
13.4.3	Cumulative Impact	13-101
13.5	Mitigation Measures	13-103
13.5.1	World Heritage Property	13-103
13.5.2	Setting of Archaeological Monuments	13-104
13.5.3	Archaeological Testing within the Proposed LMA	13-105
13.5.4	Archaeological Monitoring	13-106
13.5.5	Archaeological Excavation (Preservation by Record)	13-106
13.5.6	General	13-107
13.6	Residual Effects	13-107
13.7	Monitoring	13-117
13.8	Chapter References	13-117
14	ARCHITECTURAL HERITAGE	14-1
14.1	Introduction	14-1
14.2	Methodology	14-1
14.2.1	Legislation, Policy and Guidance	14-1
14.2.2	Zone of Influence	14-2
14.2.3	Sources of Information to inform the Assessment	14-2
14.2.4	Key Parameters for Assessment	14-2

VOL. 2 TABLE OF CONTENTS

14.2.5	Assessment Criteria and Significance	14-3
14.3	Description of Existing Environment (Baseline Scenario)	14-5
14.3.1	Current Baseline Environment	14-5
14.3.2	Evolution of the Environment in the Absence of the Proposed Scheme	14-21
14.4	Description of Likely Significant Effects	14-21
14.4.1	Construction Phase	14-21
14.4.2	Operational Phase	14-27
14.4.3	Cumulative Impact	14-32
14.5	Mitigation Measures	14-33
14.5.1	Construction Phase	14-33
14.5.2	Operational Phase	14-37
14.6	Residual Impacts	14-37
14.7	Monitoring	14-37
14.7.1	Construction Phase	14-37
14.7.2	Operational Phase	14-37
14.8	Chapter References	14-38

Volume 2 Main EIAR – Part 2 of 2

15	BIODIVERSITY: TERRESTRIAL	15-1
15.1	Introduction	15-1
15.2	Methodology	15-1
15.2.1	Legislation, Policy and Guidance	15-1
15.2.2	Zone of Influence	15-3
15.2.3	Sources of information to inform assessment	15-6
15.2.4	Key Parameters for Assessment	15-16
15.2.5	Assessment Criteria and Significance	15-17
15.2.6	Data Limitations	15-18
15.3	Description of Existing Environment (Baseline Scenario)	15-19
15.3.1	Designated Sites for Nature Conservation	15-19
15.3.2	Water Bodies	15-23
15.3.3	Habitats and Flora	15-23
15.3.4	Fauna	15-41
15.3.5	Important Ecological Features (IEF)	15-63
15.3.6	Evolution of the Environment in the Absence of the Proposed Scheme	15-71
15.4	Description of Likely Significant Effects	15-72
15.4.1	Construction Phase	15-72

VOL. 2 TABLE OF CONTENTS

15.4.2	Operational Phase	15-95
15.4.3	Cumulative Impact	15-111
15.5	Mitigation Measures	15-113
15.5.1	Measures Incorporated into the Design	15-113
15.5.2	Pre-construction Works	15-115
15.5.3	Construction Phase	15-119
15.5.4	Operational Phase	15-128
15.6	Residual Impacts	15-133
15.6.1	Construction Phase	15-133
15.6.2	Operational Phase	15-134
15.7	Monitoring	15-134
15.7.1	Construction Phase	15-134
15.7.2	Operational Phase	15-135
15.8	Chapter References	15-137
16	BIODIVERSITY: AQUATIC ECOLOGY	16-1
16.1	Introduction	16-1
16.2	Methodology	16-1
16.2.1	Legislation, Policy and Guidance	16-1
16.2.2	Zone of Influence	16-2
16.2.3	Sources of Information to inform the Assessment	16-3
16.2.4	Key Parameters for Assessment	16-5
16.2.5	Assessment Criteria and Significance	16-6
16.2.6	Data Limitations	16-7
16.3	Description of Existing Environment (Baseline Scenario)	16-8
16.3.1	Current Baseline Environment	16-8
16.3.2	Evolution of the Environment in the Absence of the Proposed Scheme	16-15
16.4	Description of Likely Significant Effects	16-15
16.4.1	Construction Phase	16-15
16.4.2	Operational Phase	16-21
16.4.3	Cumulative Impact	16-27
16.5	Mitigation Measures	16-28
16.5.1	Construction Phase	16-28
16.5.2	Operational Phase	16-31
16.6	Residual Impacts	16-32
16.6.1	Construction Phase	16-32
16.6.2	Operational Phase	16-32

VOL. 2 TABLE OF CONTENTS

16.7	Monitoring	16-32
16.7.1	Construction Phase	16-32
16.7.2	Operational Phase	16-39
16.8	Chapter References	16-40
17	WATER	17-1
17.1	Introduction	17-1
17.2	Methodology	17-1
17.2.1	Legislation, Policy and Guidance	17-1
17.2.2	Zone of Influence	17-2
17.2.3	Sources of Information to Inform the Assessment	17-2
17.2.4	Key Parameters for Assessment	17-3
17.2.5	Assessment Criteria and Significance	17-4
17.2.6	Data Limitations	17-6
17.3	Description of Existing Environment (Baseline Scenario)	17-7
17.3.1	Current Baseline Environment	17-7
17.3.2	Evolution of the Environment in the Absence of the Proposed Scheme	17-19
17.4	Description of Likely Significant Effects	17-19
17.4.1	Construction Phase	17-20
17.4.2	Operational Phase	17-22
17.4.3	WFD Considerations	17-24
17.4.4	Cumulative Impact	17-29
17.5	Mitigation Measures	17-30
17.5.1	Construction Phase	17-30
17.5.2	Operational Phase	17-30
17.6	Residual Impacts	17-31
17.7	Monitoring	17-31
17.7.1	Construction Phase	17-31
17.7.2	Operational Phase	17-31
17.8	Chapter References	17-33
18	LAND, SOILS, GEOLOGY AND HYDROGEOLOGY	18-1
18.1	Introduction	18-1
18.2	Methodology	18-1
18.2.1	Legislation, Policy and Guidance	18-1
18.2.2	Zone of Influence	18-2
18.2.3	Sources of Information to Inform the Assessment	18-4

VOL. 2 TABLE OF CONTENTS

18.2.4	Key Parameters for Assessment	18-4
18.2.5	Assessment Criteria and Significance	18-6
18.2.6	Data Limitations	18-8
18.3	Description of Existing Environment (Baseline Scenario)	18-8
18.3.1	Current Baseline Environment	18-8
18.3.2	Evolution of the Environment in the Absence of the Proposed Scheme	18-24
18.4	Description of Likely Significant Effects	18-25
18.4.1	Construction Phase	18-25
18.4.2	Operational Phase	18-29
18.4.3	Cumulative Impact	18-31
18.5	Mitigation Measures	18-32
18.5.1	Construction Phase	18-32
18.5.2	Operational Phase	18-33
18.6	Residual Effects	18-33
18.7	Monitoring	18-34
18.8	Chapter References	18-35
19	CLIMATE	19-1
19.1	Introduction	19-1
19.2	Methodology	19-1
19.2.1	Legislation, Policy, and Guidance	19-2
19.2.2	Zone of Influence	19-7
19.2.3	Sources of Information to Inform the Assessment	19-7
19.2.4	Key Parameters for Assessment	19-8
19.2.5	Assessment Criteria and Significance	19-11
19.2.6	Data Limitations	19-15
19.3	Description of Existing Environment	19-15
19.3.1	Current Environment and climate change	19-15
19.3.2	Evolution of the Environment in the Absence of the Proposed Scheme	19-23
19.4	Description of Likely Significant Effects	19-26
19.4.1	Construction Phase	19-27
19.4.2	Operational Phase	19-34
19.4.3	Cumulative Impact	19-39
19.5	Mitigation Measures	19-40
19.5.1	Construction Phase	19-40
19.5.2	Operational Phase	19-42
19.6	Residual Impacts	19-42

VOL. 2 TABLE OF CONTENTS

19.6.1	Construction Phase	19-42
19.6.2	Operational Phase	19-42
19.6.3	Consistency with Climate Policy	19-43
19.7	Monitoring	19-46
19.8	Chapter References	19-47
20	MATERIAL ASSETS: AGRICULTURAL PROPERTIES	20-1
20.1	Introduction	20-1
20.2	Methodology	20-2
20.2.1	Legislation, Policy, and Guidance	20-2
20.2.2	Zone of Influence	20-2
20.2.3	Sources of Information to inform the Assessment	20-2
20.2.4	Key Parameters for Assessment	20-3
20.2.5	Assessment Criteria and Significance	20-4
20.2.6	Data Limitations	20-7
20.3	Description of Existing Environment (Baseline Scenario)	20-8
20.3.1	Current Baseline Environment	20-8
20.3.2	Evolution of the Environment in the Absence of the Proposed Scheme	20-10
20.4	Description of Likely Significant Effects	20-14
20.4.1	Construction Phase	20-14
20.4.2	Operational Phase	20-16
20.4.3	Cumulative Impact	20-21
20.5	Mitigation Measures	20-21
20.5.1	Construction Phase	20-21
20.5.2	Operational Phase	20-22
20.6	Residual Impacts	20-22
20.7	Monitoring	20-23
20.8	Chapter References	20-24
21	MATERIAL ASSETS: NON-AGRICULTURAL PROPERTIES	21-1
21.1	Introduction	21-1
21.2	Methodology	21-1
21.2.1	Legislation, Policy, and Guidance	21-1
21.2.2	Zone of Influence	21-2
21.2.3	Sources of Information to inform the Assessment	21-2
21.2.4	Key Parameters for Assessment	21-2
21.2.5	Assessment Criteria and Significance	21-3

VOL. 2 TABLE OF CONTENTS

21.3	Description of Existing Environment (Baseline Scenario)	21-4
21.3.1	Current Baseline Environment	21-4
21.3.2	Evolution of the Environment in the Absence of the Proposed Scheme	21-5
21.4	Description of Likely Significant Effects	21-9
21.4.1	Construction Phase	21-9
21.4.2	Operational Phase	21-10
21.4.3	Cumulative Impact	21-19
21.5	Mitigation Measures	21-19
21.5.1	Construction Phase	21-19
21.5.2	Operational Phase	21-19
21.6	Residual Impacts	21-20
21.7	Monitoring	21-20
21.8	Chapter References	21-21
22	MATERIAL ASSETS: UTILITIES	22-1
22.1	Introduction	22-1
22.2	Methodology	22-1
22.2.1	Legislation, Policy and Guidance	22-1
22.2.2	Zone of Influence	22-2
22.2.3	Sources of Information to inform the Assessment	22-2
22.2.4	Key Parameters for Assessment	22-2
22.2.5	Assessment Criteria and Significance	22-2
22.3	Description of Existing Environment (Baseline Scenario)	22-5
22.3.1	Current Baseline Environment	22-5
22.3.2	Evolution of the Environment in the Absence of the Proposed Scheme	22-7
22.4	Description of Likely Significant Effects	22-7
22.4.1	Construction Phase	22-7
22.4.2	Operational Phase	22-12
22.4.3	Cumulative Impact	22-12
22.5	Mitigation Measures	22-12
22.5.1	Construction Phase	22-12
22.5.2	Operational Phase	22-14
22.6	Residual Impacts	22-14
22.7	Monitoring	22-14
22.8	Chapter References	22-15

VOL. 2 TABLE OF CONTENTS

23	MATERIAL ASSETS: RESOURCE AND WASTE MANAGEMENT	23-1
23.1	Introduction	23-1
23.2	Methodology	23-1
23.2.1	Legislation, Policy, and Guidance	23-2
23.2.2	Zone of Influence	23-3
23.2.3	Sources of Information to Inform the Assessment	23-3
23.2.4	Key Parameters for Assessment	23-5
23.2.5	Assessment Criteria and Significance	23-5
23.3	Description of Existing Environment (Baseline Scenario)	23-7
23.3.1	Suitable Licensed Waste Facilities	23-7
23.3.2	Historic Waste Facilities	23-7
23.3.3	Construction and Demolition Waste	23-7
23.3.4	Hazardous Waste	23-8
23.3.5	Municipal and Other Wastes	23-8
23.3.6	Evolution of the Environment in the Absence of the Proposed Scheme	23-19
23.4	Description of Likely Significant Effects	23-19
23.4.1	Construction Phase	23-20
23.4.2	Operational Phase	23-25
23.4.3	Cumulative Impact	23-26
23.5	Mitigation Measures	23-26
23.5.1	Construction Phase	23-26
23.5.2	Operational Phase	23-28
23.6	Residual Impacts	23-28
23.6.1	Construction Phase	23-28
23.6.2	Operational Phase	23-29
23.7	Monitoring	23-29
23.7.1	Construction Phase	23-29
23.7.2	Operational Phase	23-29
23.8	Chapter References	23-30
24	RISKS OF MAJOR ACCIDENTS AND/OR DISASTERS	24-1
24.1	Introduction	24-1
24.2	Methodology	24-1
24.2.1	Legislation, Policy, and Guidance	24-1
24.2.2	Study Area	24-3
24.2.3	Sources of Information to Inform the Assessment	24-3
24.2.4	Key Parameters for Assessment	24-3

VOL. 2 TABLE OF CONTENTS

24.2.5	Assessment Criteria and Significance	24-4
24.3	Description of Existing Environment (Baseline)	24-6
24.3.1	Seveso Sites / COMAH Establishments	24-7
24.3.2	Built Service Infrastructure	24-7
24.3.3	Waste and Licenced Facilities	24-8
24.3.4	Contaminated Land and Unlicensed Sites	24-8
24.3.5	Natural Hazards	24-8
24.3.6	Flooding and Flood Risk	24-9
24.3.7	Geohazards	24-9
24.3.8	Consultation	24-10
24.4	Risk Assessment	24-11
24.4.1	Stage 1 – Screening	24-11
24.4.2	Stage 2 – Scoping	24-11
24.4.3	Stage 3 – Assessment	24-25
24.5	Chapter References	24-31
25	CUMULATIVE EFFECTS	25-1
25.1	Introduction	25-1
25.2	Methodology	25-1
25.2.1	Legislation, Policy, and Guidance	25-1
25.2.2	Zone of Influence	25-2
25.2.3	Staged Process for undertaking CIA	25-2
25.3	Chapter References	25-6
26	INTERACTION BETWEEN THE ENVIRONMENTAL FACTORS	26-1
26.1	Introduction	26-1
26.2	Methodology	26-1
26.2.1	Legislation, Policy, and Guidance	26-1
26.2.2	Zone of Influence	26-1
26.2.3	Assessment Approach	26-1
26.3	Potential Impacts	26-2
26.3.1	Interactions Matrix	26-2
26.3.2	Description of Interactions	26-4
26.4	Mitigation	26-17
26.5	Chapter References	26-18

VOL. 2 TABLE OF CONTENTS

27	SCHEDULE OF ENVIRONMENTAL COMMITMENTS	27-1
27.1	Chapter 7 – Traffic and Transport	27-1
27.2	Chapter 8 – Population	27-2
27.3	Chapter 9 – Noise and Vibration	27-4
27.4	Chapter 10 – Air Quality	27-9
27.5	Chapter 11 – Human Health	27-11
27.6	Chapter 12 – Landscape and Visual	27-12
27.7	Chapter 13 – Archaeological and Cultural Heritage	27-22
27.8	Chapter 14 – Architectural Heritage	27-32
27.9	Chapter 15 – Biodiversity: Terrestrial Ecology	27-39
27.10	Chapter 16 – Biodiversity: Aquatic Ecology	27-59
27.11	Chapter 17 – Water	27-69
27.12	Chapter 18 – Land, Soils, Geology and Hydrogeology	27-71
27.13	Chapter 19 – Climate	27-73
27.14	Chapter 20 – Material Assets: Agricultural Properties	27-75
27.15	Chapter 21 – Material Assets: Non-agricultural Properties	27-78
27.16	Chapter 22 – Material Assets: Utilities	27-82
27.17	Chapter 23 – Material Assets: Resource and Waste Management	27-83
27.18	Natura Impact Statement	27-86