



Llywodraeth Cymru  
Welsh Government

[www.cymru.gov.uk](http://www.cymru.gov.uk)

# M4 Corridor around Newport

## List of Evidence for the Public Local Inquiry Library



Welsh Government  
**M4 Corridor around Newport**  
PLI Library

Issue | February 2017

This report takes into account the particular instructions and requirements of our client.

It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party.

Job number 242707

**CVJV/AAR**  
3<sup>rd</sup> Floor  
Longross Court,  
47 Newport Road,  
Cardiff  
CF24 0AD

# Contents

---

	Page
<b>Introduction</b>	<b>1</b>
<b>1 Proofs of Evidence</b>	<b>2</b>
1.1 Mr Matthew Jones BEng (Hons) CEng MICE – Chief Witness	2
1.2 Mr Bryan Whittaker FCIHT (Traffic)	2
1.3 Mr Stephen Bussell BSc (Hons) MIED (Economics)	2
1.4 Mr Andrew Meaney BSc (Hons) MSc (Port Economics)	2
1.5 Mr Ben Sibert BEng CEng FICE MIStructE MCIHT (Engineering)	2
1.6 Mr Barry Woodman BSc (Hons) MBA CEng FICE FIHE MCIHT (Construction)	2
1.7 Dr Peter Ireland MA (Oxon), D.Phil (Environment)	2
1.8 Mr Nicholas Rowson BSc (Hons) Hort BLD CMLI MIHort (Landscape)	3
1.9 Mr Mick Rawlings BA (Hons) MIFA (Cultural Heritage)	3
1.10 Ms Julia Tindale BSc (Hons) MI soil SCI (Land Use, Community and Recreation)	3
1.11 Mr Andy Clifton BSc (Hons) MSc CEng FGS CEnv CSci (Contamination)	3
1.12 Dr Michael Bull BSc DIC PhD CEng CEnv CSci FIAQM MIEnvSc MIChemE (Air Quality)	3
1.13 Mr Tim Chapman BE MSc DIC CEng FICE FIEI FEng (Carbon)	3
1.14 Mr Phillip Evans BSc (Hons) MSc MIOA FGS (Noise & Vibration)	3
1.15 Mr Richard Graham BSc (Hons) MSc (Water Quality)	3
1.16 Dr Paul Canning BEng (Hons) PhD CEng MICE (Tidal Flooding)	4
1.17 Mr Mike Vaughan BEng (Hons) Exon CEng CWEM MICE MCIWEM (Flood Consequences Assessment)	4
1.18 Dr Keith Jones BSc PhD MRSB CBiol (Ecology and Nature Conservation)	4
1.19 Mr Jon Davies MSc BSc MCIEEM CEnv (Ecology – Dormice and Water Voles)	4
1.20 Mr Richard Green BSc MCIEEM CEnv SocEnv (Ecology – Bats)	4
1.21 Dr Simon Zisman BSc BSc (Hons), MSc, PhD, MCIEEM (Ecology – Ornithology)	4
1.22 Mr Jonathan Vine MNI (Shipping)	4
1.23 Mr John Davies MBE BSc MRTPI (Sustainable Development)	4
<b>2 Draft Orders</b>	<b>5</b>
2.1 Draft Orders 2016	5
2.2 Draft Orders Ancillary Documents 2016	6
2.3 Draft Orders Supporting Documents 2016	6
2.4 Draft Orders Supplements and Modifications 2016	7

<b>3</b>	<b>Legislation</b>	<b>8</b>
3.1	General	8
<b>4</b>	<b>Scheme Development and Alternatives</b>	<b>10</b>
4.1	Pre 2006 Route Review	10
4.2	2006 Preferred Route	11
4.3	M4 Corridor Enhancement Measures (CEM) 2010 - 2013	12
4.4	Draft Plan 2013	13
4.5	The Plan 2014	14
4.6	2014 Preferred Route	16
<b>5</b>	<b>Policy and Guidance (General)</b>	<b>18</b>
5.1	Policy	18
5.2	Guidance	18
5.3	Local Development Plans	18
5.4	Publications	19
<b>6</b>	<b>Transport and Engineering</b>	<b>20</b>
6.1	Policy and Guidance	20
6.2	Reports	21
6.3	Publications	22
<b>7</b>	<b>Port of Newport and Shipping</b>	<b>23</b>
7.1	Reports	23
<b>8</b>	<b>Air Quality &amp; Carbon</b>	<b>24</b>
8.1	Legislation	24
8.2	Policy and Guidance	24
8.3	Publications	25
<b>9</b>	<b>Cultural Heritage</b>	<b>26</b>
9.1	Policy and Guidance	26
<b>10</b>	<b>Landscape and Visual Effects</b>	<b>27</b>
10.1	Legislation	27
10.2	Policy and Guidance	27
10.3	Publications	27
<b>11</b>	<b>Ecology and Nature Conservation</b>	<b>28</b>
11.1	Legislation	28
11.2	Policy and Guidance	28
11.3	Publications	30
11.4	SSSI Citations	33

<b>12</b>	<b>Geology and Soils</b>	<b>34</b>
12.1	Legislation	34
12.2	Policy and Guidance	34
12.3	Publications	35
12.4	Reports	36
<b>13</b>	<b>Materials</b>	<b>37</b>
13.1	Legislation	37
13.2	Policy and Guidance	37
13.3	Publications	37
<b>14</b>	<b>Noise and Vibration</b>	<b>39</b>
14.1	Legislation	39
14.2	Policy and Guidance	39
<b>15</b>	<b>All Travellers</b>	<b>41</b>
15.1	Policy and Guidance	41
15.2	Publications	41
<b>16</b>	<b>Community and Private Assets</b>	<b>42</b>
16.1	Policy and Guidance	42
<b>17</b>	<b>Road Drainage and the Water Environment</b>	<b>43</b>
17.1	Legislation	43
17.2	Policy and Guidance	43
17.3	Publications	44
<b>18</b>	<b>Assessment of Cumulative Effects and Interrelationships</b>	<b>45</b>
18.1	Policy and Guidance	45
<b>19</b>	<b>Environmental Management</b>	<b>46</b>
19.1	Policy and Guidance	46

## Introduction

---

This is the current list of documents as prepared by the Welsh Government for the purposes of the M4 Corridor around Newport Public Local Inquiry.

This list of documents is subject to change before the proceedings start, whilst additional documents may be added to the Public Local Inquiry Library during the proceedings.

The Public Local Inquiry Library and its contents will be kept up to date by the designated Programme Officer.

All available documents will be accessible in paper at the Public Local Inquiry venue during the course of the proceedings:

Lysaght Institute, 445 Corporation Rd, Newport NP19 0HE; and

Online at the M4 Corridor around Newport Public Local Inquiry website:

<http://m4-newport.persona-pi.com/>

Copies will also be made available during their opening hours at the following deposit centres:

- Newport Central Library, John Frost Square, Newport NP20 1PA; and
- Innovation House, Wales1 Business Park, Magor NP26 3DG.

Please note that the documents will be made available at the above locations from Monday 22 August 2016, with the following exceptions:

- a) Supplementary Draft Orders in relation to the Scheme, and land that may be required at Bencroft Lane, Monmouthshire, with Environmental Statement Supplement (on or around 5 September 2016);
- b) Various technical reports, including Second Environmental Statement Supplement (on or around 13 December 2016), and;
- c) Proofs of Evidence (on or around 23 January 2017); and

Documents marked with a single asterisk (\*) relate to those that were added on or around 5 September 2016. Documents marked with a double asterisk (\*\*) relate to those that will be added on or around 13th December 2016.

In addition to the proofs, some supporting docs will be published on or around 23 January 2017. These documents are marked as a triple asterisk (\*\*\*).

# 1 Proofs of Evidence

<b>Welsh Government (WG) Document</b>	
<b>1.1</b>	<b>Mr Matthew Jones BEng (Hons) CEng MICE – Chief Witness</b>
1.1.1	Proof of Evidence
1.1.2	Summary of Proof
<b>1.2</b>	<b>Mr Bryan Whittaker FCIHT (Traffic)</b>
1.2.1	Proof of Evidence
1.2.2	Summary of Proof
1.2.3	Appendices
1.2.4	Erratum
<b>1.3</b>	<b>Mr Stephen Bussell BSc (Hons) MIED (Economics)</b>
1.3.1	Proof of Evidence
1.3.2	Summary of Proof
<b>1.4</b>	<b>Mr Andrew Meaney BSc (Hons) MSc (Port Economics)</b>
1.4.1	Proof of Evidence
1.4.2	Summary of Proof
1.4.3	Appendices
<b>1.5</b>	<b>Mr Ben Sibert BEng CEng FICE MIStructE MCIHT (Engineering)</b>
1.5.1	Proof of Evidence
1.5.2	Summary of Proof
1.5.3	Appendices
<b>1.6</b>	<b>Mr Barry Woodman BSc (Hons) MBA CEng FICE FIHE MCIHT (Construction)</b>
1.6.1	Proof of Evidence
1.6.2	Summary of Proof
1.6.3	Appendices
<b>1.7</b>	<b>Dr Peter Ireland MA (Oxon), D.Phil (Environment)</b>
1.7.1	Proof of Evidence
1.7.2	Summary of Proof
1.7.3	Appendices

<b>1.8</b>	<b>Mr Nicholas Rowson BSc (Hons) Hort BLD CMLI MIHort (Landscape)</b>
<b>1.8.1</b>	Proof of Evidence
<b>1.8.2</b>	Summary of Proof
<b>1.9</b>	<b>Mr Mick Rawlings BA (Hons) MIFA (Cultural Heritage)</b>
<b>1.9.1</b>	Proof of Evidence
<b>1.9.2</b>	Summary of Proof
<b>1.9.3</b>	Appendices
<b>1.10</b>	<b>Ms Julia Tindale BSc (Hons) MI soil SCI (Land Use, Community and Recreation)</b>
<b>1.10.1</b>	Proof of Evidence
<b>1.10.2</b>	Summary of Proof
<b>1.10.3</b>	Appendices
<b>1.11</b>	<b>Mr Andy Clifton BSc (Hons) MSc CEng FGS CEnv CSci (Contamination)</b>
<b>1.11.1</b>	Proof of Evidence
<b>1.11.2</b>	Summary of Proof
<b>1.11.3</b>	Appendices
<b>1.12</b>	<b>Dr Michael Bull BSc DIC PhD CEng CEnv CSci FIAQM MIEnvSc MIChemE (Air Quality)</b>
<b>1.12.1</b>	Proof of Evidence
<b>1.12.2</b>	Summary of Proof
<b>1.12.3</b>	Erratum
<b>1.13</b>	<b>Mr Tim Chapman BE MSc DIC CEng FICE FIEI FEng (Carbon)</b>
<b>1.13.1</b>	Proof of Evidence
<b>1.13.2</b>	Summary of Proof
<b>1.13.3</b>	Erratum
<b>1.14</b>	<b>Mr Phillip Evans BSc (Hons) MSc MIOA FGS (Noise &amp; Vibration)</b>
<b>1.14.1</b>	Proof of Evidence
<b>1.14.2</b>	Summary of Proof
<b>1.15</b>	<b>Mr Richard Graham BSc (Hons) MSc (Water Quality)</b>
<b>1.15.1</b>	Proof of Evidence
<b>1.15.2</b>	Summary of Proof



<b>1.16</b>	<b>Dr Paul Canning BEng (Hons) PhD CEng MICE (Tidal Flooding)</b>
<b>1.16.1</b>	Proof of Evidence
<b>1.16.2</b>	Summary of Proof
<b>1.16.3</b>	Appendices
<b>1.17</b>	<b>Mr Mike Vaughan BEng (Hons) Exon CEng CWEM MICE MCIWEM (Flood Consequences Assessment)</b>
<b>1.17.1</b>	Proof of Evidence
<b>1.17.2</b>	Summary of Proof
<b>1.18</b>	<b>Dr Keith Jones BSc PhD MRSB CBIol (Ecology and Nature Conservation)</b>
<b>1.18.1</b>	Proof of Evidence
<b>1.18.2</b>	Summary of Proof
<b>1.19</b>	<b>Mr Jon Davies MSc BSc MCIEEM CEnv (Ecology – Dormice and Water Voles)</b>
<b>1.19.1</b>	Proof of Evidence
<b>1.19.2</b>	Summary of Proof
<b>1.19.3</b>	Appendices
<b>1.20</b>	<b>Mr Richard Green BSc MCIEEM CEnv SocEnv (Ecology – Bats)</b>
<b>1.20.1</b>	Proof of Evidence
<b>1.20.2</b>	Summary of Proof
<b>1.21</b>	<b>Dr Simon Zisman BSc BSc (Hons), MSc, PhD, MCIEEM (Ecology – Ornithology)</b>
<b>1.21.1</b>	Proof of Evidence
<b>1.21.2</b>	Summary of Proof
<b>1.22</b>	<b>Mr Jonathan Vine MNI (Shipping)</b>
<b>1.22.1</b>	Proof of Evidence
<b>1.22.2</b>	Summary of Proof
<b>1.22.3</b>	Appendices
<b>1.23</b>	<b>Mr John Davies MBE BSc MRTPI (Sustainable Development)</b>
<b>1.23.1</b>	Proof of Evidence
<b>1.23.2</b>	Summary of Proof
<b>1.23.3</b>	Erratum

## 2 Draft Orders

Document	
<b>2.1</b>	<b>Draft Orders 2016</b>
<b>2.1.1</b>	THE M4 MOTORWAY (JUNCTION 23 (EAST OF MAGOR) TO WEST OF JUNCTION 29 (CASTLETON) AND CONNECTING ROADS) AND THE M48 MOTORWAY (JUNCTION 23 (EAST OF MAGOR) CONNECTING ROAD) SCHEME 201- and associated plans. [including Bridges over the navigable waterways of Newport Docks, River Usk and River Ebbw Bridges]
<b>2.1.2</b>	THE LONDON TO FISHGUARD TRUNK ROAD (EAST OF MAGOR TO CASTLETON) ORDER 201- and associated plans
<b>2.1.3</b>	THE M4 MOTORWAY (JUNCTION 23 (EAST OF MAGOR) TO WEST OF JUNCTION 29 (CASTLETON) AND CONNECTING ROADS) AND THE M48 MOTORWAY (JUNCTION 23 (EAST OF MAGOR) CONNECTING ROAD) AND THE LONDON TO FISHGUARD TRUNK ROAD (EAST OF MAGOR TO CASTLETON) (SIDE ROADS) ORDER 201– and associated plans and schedules
<b>2.1.4</b>	THE M4 MOTORWAY (WEST OF MAGOR TO THE EAST OF CASTLETON) AND THE A48(M) MOTORWAY (WEST OF CASTLETON TO ST MELLONS) (VARIATION OF VARIOUS SCHEMES) SCHEME 201– and associated plans
<b>2.1.5</b>	THE WELSH MINISTERS (THE M4 MOTORWAY (JUNCTION 23 (EAST OF MAGOR) TO WEST OF JUNCTION 29 (CASTLETON) AND CONNECTING ROADS) AND THE M48 MOTORWAY (JUNCTION 23 (EAST OF MAGOR) CONNECTING ROAD) AND THE LONDON TO FISHGUARD TRUNK ROAD (EAST OF MAGOR TO CASTLETON)) COMPULSORY PURCHASE ORDER 201– and associated maps and schedules
<b>2.1.6</b>	NOTICE OF A PROPOSED COMPULSORY PURCHASE OF LAND FORMING PART OF A COMMON AND RIGHTS OVER LAND FORMING PART OF A COMMON, SUCH LAND BEING KNOWN AS PART OF FORESHORES OF RIVERS EBBW AND USK (PART OF REGISTER UNIT CL1) IN THE CITY OF NEWPORT and associated plans and schedules
<b>2.1.7</b>	NOTICE OF A PROPOSED COMPULSORY PURCHASE OF LAND OVER A FIELD GARDEN ALLOTMENT AT GREEN MOOR LANE, MAGOR IN THE COUNTY OF MONMOUTHSHIRE and associated plans and schedules

<b>Document</b>	
<b>2.2</b>	<b>Draft Orders Ancillary Documents 2016</b>
<b>2.2.1</b>	The Statement of Reasons (explaining the proposals contained in the draft Compulsory Purchase Order)
<b>2.2.2</b>	The Explanatory Statement (explaining the proposals contained in the draft Scheme, draft Line and draft Side Roads Orders)
<b>2.2.3</b>	Public Notice of the Public Exhibitions of Draft Order Proposals
<b>2.2.4</b>	Public Notice announcing the draft Scheme, draft Line, and draft Side Roads Orders
<b>2.2.5</b>	Public Notice announcing the draft Compulsory Purchase Order
<b>2.2.6</b>	Public Notice announcing the Variation of the Scheme
<b>2.2.7</b>	Environmental Impact Assessment Notice of Environmental Statement and Assessment of Implications for European Sites Notice of Statement to Inform Appropriate Assessment
<b>2.2.8</b>	Environmental Impact Assessment Notice of Determination and Assessment of Implications for European Sites Notice of Statement to Inform Appropriate Assessment
<b>2.2.9</b>	Public Notice announcing intention to hold a Pre-Inquiry Meeting
<b>2.2.10</b>	Public Notice announcing details of the Public Local Inquiry*
<b>2.3</b>	<b>Draft Orders Supporting Documents 2016</b>
<b>2.3.1</b>	THE WELSH MINISTERS (THE M4 MOTORWAY (JUNCTION 23 (EAST OF MAGOR) TO WEST OF JUNCTION 29 (CASTLETON) AND CONNECTING ROADS) AND THE M48 MOTORWAY (JUNCTION 23 (EAST OF MAGOR) CONNECTING ROAD) AND THE LONDON TO FISHGUARD TRUNK ROAD (EAST OF MAGOR TO CASTLETON)) COMPULSORY PURCHASE ORDER 201 – Land Reference Plans and Schedule
<b>2.3.2</b>	M4 Corridor around Newport Environmental Statement
<b>2.3.3</b>	M4 Corridor around Newport Environmental Statement: Non-Technical Summary
<b>2.3.4</b>	M4 Corridor around Newport Statement to Inform an Appropriate Assessment under the Conservation of Habitats and Species Regulations 2010
<b>2.3.5</b>	Welsh Government M4 Corridor around Newport. Assessment of Implications (of highways and/or roads projects) on European Sites. Screening Report 2015
<b>2.3.6</b>	M4 Corridor around Newport Scheme Assessment Report
<b>2.3.7</b>	M4 Corridor around Newport Economic Appraisal Report
<b>2.3.8</b>	M4 Corridor around Newport Wider Economic Impact Assessment
<b>2.3.9</b>	Local Model Validation Report 2015
<b>2.3.10</b>	M4 Corridor around Newport Traffic Forecasting Report
<b>2.3.11</b>	M4 Corridor around Newport Sustainable Development Report

<b>Document</b>	
<b>2.3.12</b>	Land reference plans with Scheme Overlay Comparison (Highway Alignment superimposed for checking purposes)
<b>2.3.13</b>	Public Information Exhibitions 2015
<b>2.3.14</b>	Project Information Brochure 2015
<b>2.3.15</b>	Summary Brochure 2015
<b>2.3.16</b>	Public Information Exhibitions Report 2015
<b>2.3.17</b>	Public Information Exhibitions Report - Appendix A: Copies of the printed publicity materials 2015
<b>2.3.18</b>	Draft Orders Exhibition Materials
<b>2.3.19</b>	Draft Orders Summary Brochure
<b>2.4</b>	<b>Draft Orders Supplements and Modifications 2016</b>
<b>2.4.1</b>	Statement of Reasons explaining the proposals contained within the Order Supplements*
<b>2.4.2</b>	Public Notice announcing the draft Supplementary Compulsory Purchase Order*
<b>2.4.3</b>	Draft Supplementary Compulsory Purchase Order [Bencroft Lane amendments]*
<b>2.4.4</b>	Environmental Statement Supplement September 2016*
<b>2.4.5</b>	Traffic Forecasting Report Supplement September 2016*
<b>2.4.6</b>	Statement of Case
<b>2.4.7</b>	Draft Supplementary Scheme Order [Navigation]*
<b>2.4.8</b>	Public Notice announcing the draft Scheme Order*
<b>2.4.9</b>	Explanatory Statement explaining the proposals contained within the draft Supplementary Scheme Order*
<b>2.4.10</b>	Environmental Statement Supplement September 2016 Summary*
<b>2.4.11</b>	Revised Wider Economic Impact Assessment December 2016**
<b>2.4.12</b>	Revised Economic Appraisal Report December 2016**
<b>2.4.13</b>	Revised Traffic Forecasting Report December 2016**
<b>2.4.14</b>	Environmental Statement Supplement December 2016**
<b>2.4.15</b>	Notice of Environmental Statement Supplement December 2016**
<b>2.4.16</b>	Amendment Scheme Order**
<b>2.4.17</b>	Amendment Scheme Order Public Notice**
<b>2.4.18</b>	Amendment Scheme Order Explanatory Statement**
<b>2.4.19</b>	Updated Public Transport Overview 2016**
<b>2.4.20</b>	Schedule 3 (Amendment) Plans and Specifications**

## 3 Legislation

Document	
<b>3.1</b>	<b>General</b>
<b>3.1.1</b>	Newport (Monmouthshire) Harbour Act 1890 [53&54 Vict]
<b>3.1.2</b>	Harbour Docks and Piers Clauses Act 1847
<b>3.1.3</b>	The Land Compensation Act 1961
<b>3.1.4</b>	The Ancient Monuments and Archaeological Areas Act 1979
<b>3.1.5</b>	Highways Act 1980
<b>3.1.6</b>	Acquisition of Land Act 1981
<b>3.1.7</b>	Wildlife and Countryside Act 1981 (as amended)
<b>3.1.8</b>	Planning (Listed Buildings and Conservation Areas) Act 1990
<b>3.1.9</b>	The Town and Country Planning Act 1990
<b>3.1.10</b>	The Environment Act 1995, Chapter 25
<b>3.1.11</b>	Human Rights Act 1998
<b>3.1.12</b>	The Countryside and Rights of Way (CRoW) Act 2000
<b>3.1.13</b>	The Natural Environment and Rural Communities (NERC) Act 2006.
<b>3.1.14</b>	Climate Change Act 2008
<b>3.1.15</b>	Active Travel (Wales) Act 2013
<b>3.1.16</b>	Environment (Wales) Act 2016
<b>3.1.17</b>	Environment (Wales) Act 2016 Explanatory Memorandum
<b>3.1.18</b>	Well-being of Future Generation Act (Wales) 2015
<b>3.1.19</b>	Historic Environment (Wales) Act 2016
<b>3.1.20</b>	Planning (Wales) Act 2015
<b>3.1.21</b>	European Directive 92/43/EEC on the Conservation of Natural Habitats and Wild Flora and Fauna
<b>3.1.22</b>	Conservation of Habitats and Species Regulations 2010
<b>3.1.23</b>	Hedgerows Regulations 1997
<b>3.1.24</b>	The Highways (Assessment of Environmental Effects) Regulations 1999. SI 1999 No 369
<b>3.1.25</b>	Water Environment (Water Framework Directive) (England and Wales) Regulations 2003
<b>3.1.26</b>	The Highways (Environmental Impact Assessment) Regulations 2007. SI 2007 No 1062
<b>3.1.27</b>	The Newport (South Wales) Harbour Revision (Constitution) Order 2003
<b>3.1.28</b>	Newport (South Wales) Harbour Commissioners Byelaws 2015

Document	
<b>3.1.29</b>	Directive 2014/52/EU of the European Parliament and of the Council of 16 April 2014 amending Directive 2011/92/EU on the Assessment of the Effects of Certain Public and Private Projects in the Environment
<b>3.1.30</b>	Directive 2011/92/EU of the European Parliament and of the Council of 13 December 2011 on the Assessment of the Effects of Certain Public and Private Projects in the Environment (codification)
<b>3.1.31</b>	The Marine Works (Environmental Impact Assessment) Regulations 2007. SI 2007 No. 1518
<b>3.1.32</b>	The Marine Works (Environmental Impact Assessment) (Amendment) Regulations 2011. SI 2011 No. 735
<b>3.1.33</b>	Planning and Compulsory Purchase Act 2004**
<b>3.1.34</b>	Land Compensation Act, 1973**
<b>3.1.35</b>	Coast Protection Act 1949***

## 4 Scheme Development and Alternatives

Document	
<b>4.1</b>	<b>Pre 2006 Route Review</b>
<b>4.1.1</b>	Welsh Office South Wales Area Traffic Study 1990
<b>4.1.2</b>	<i>Not in use</i>
<b>4.1.3</b>	Roads in Wales: Progress and Plans for the 1990s – 1992 Supplement
<b>4.1.4</b>	M4 Relief Road Magor to Castleton - Initial Improvement Options report (92/2010) 1992
<b>4.1.5</b>	Welsh Office Assessment of Discarded Route Options 1993
<b>4.1.6</b>	Welsh Office Review of Northern Route Adopting Reduced Standards 1993
<b>4.1.7</b>	M4 Relief Road Magor to Castleton - Initial Forecasting report 1993
<b>4.1.8</b>	M4 Relief Road Magor to Castleton Stage 1 - Economic Assessment Report 1993
<b>4.1.9</b>	M4 Relief Road Magor to Castleton – Summary Report - Background to the selection of Routes for Public Consultation 1993
<b>4.1.10</b>	M4 Relief Road Magor to Castleton Public Consultation Brochure 1993
<b>4.1.11</b>	M4 Relief Road Magor to Castleton – Assessment of Discarded Northern Route Options 1993
<b>4.1.12</b>	Transport Research Laboratory – D of T – The Longer Term Effects of the Tyne and Wear Metro Report 1993
<b>4.1.13</b>	M4 Relief Road – Magor to Castleton Stage 1: Technical Appraisal Report vol. 1 1993
<b>4.1.14</b>	M4 Relief Road – Magor to Castleton Stage 1: Technical Appraisal Report vol. 2 1993
<b>4.1.15</b>	M4 Relief Road – Magor to Castleton Stage 1: Technical Appraisal Report vol.3 1993
<b>4.1.16</b>	M4 Relief Road – Magor to Castleton Stage 1: Technical Appraisal Report vol.4 1993
<b>4.1.17</b>	M4 Relief Road Magor to Castleton Statement of Results of Public Consultation and Reasons for Selection of Preferred Corridor 1994
<b>4.1.18</b>	M4 Relief Road Magor to Castleton Second Public Consultation for Castleton and Magor 1994
<b>4.1.19</b>	Welsh Office M4 Relief Road Magor to Castleton: Statement of Results of Second Public Consultation and Further Examination of Options for Crossing the River Usk and Reasons for Selection of Preferred Route 1995
<b>4.1.20</b>	Welsh Government press release – William Hague Announces Preferred Route for M4 Relief Road (WG ref W95234 / 027) 1995

<b>Document</b>	
<b>4.1.21</b>	M4 Relief Road (Magor to Castleton) Welsh Government letters to Chief Executives of Gwent County Council and Monmouth Borough Council (Ref 910175-315-1) with TR111 notification Serial Number 2/95 and Preferred Route plan 1995
<b>4.1.22</b>	M4 Relief Road Magor to Castleton – Technical Appraisal Report Third Addendum 1997
<b>4.1.23</b>	M4 Relief Road Magor to Castleton Welsh Government letters to Chief Executive of Newport County Borough Council and Monmouthshire County Council (Ref 910175-315-1) with TR111 notification Serial Number 1/97 and TR111 Plan - Modified Preferred Route 1997
<b>4.1.24</b>	Welsh Office M4 Motorway between Magor and Castleton: Common Appraisal Framework. Ove Arup and Partners 1999
<b>4.1.25</b>	M4 Relief Road Magor to Castleton Stage 2 – Summary of Reports and Working Papers prepared during Stage 1 Commission – 3rd Draft 2000
<b>4.1.26</b>	M4 Relief Road Magor to Castleton – Direction in Newport Docks Direction Made under Article 4(1) of the Town and Country Planning (General Permitted Development) Order 1995-2001
<b>4.1.27</b>	Trunk Road Forward Programme 2002
<b>4.1.28</b>	Press Release – Sue Essex announces Trunk Road Programme for Wales 2002
<b>4.1.29</b>	M4 Relief Road – Magor to Castleton Stage 2 – Summary Working Document 2003
<b>4.1.30</b>	Extract from Transport Review 2004 – M4 South East Wales 2004
<b>4.1.31</b>	What Light Rail Can do for Cities – Final Report – Prepared for Passenger Transport Executive Group 2005
<b>4.1.32</b>	What Light Rail Can do for Cities – Final Report – Appendices 2005
<b>4.1.33</b>	New M4 – Project Objectives Workshop Conclusions – Draft 1 2005
<b>4.1.34</b>	New M4 – Project Objectives Workshop Conclusions – Draft 1 2006
<b>4.2</b>	<b>2006 Preferred Route</b>
<b>4.2.1</b>	Transport Wales M4 Corridor Re-examination of Route Corridors, Workshop Report for 23 February 2006. Welsh Assembly Government 2006
<b>4.2.2</b>	Transport Wales New M4 Project - Magor to Castleton, Preferred Route Review. Welsh Assembly Government 2006
<b>4.2.3</b>	Transport Wales New M4 Project - Magor to Castleton, Junction Strategy Review. Welsh Assembly Government 2006
<b>4.2.4</b>	M4 Relief Road (Magor to Castleton) Protected Route TR111 – Newport City Council 2006
<b>4.2.5</b>	M4 relief Road (Magor to Castleton) Protected Route TR111 Plan – Newport City Council 2006



Document	
<b>4.2.6</b>	M4 Relief Road (Magor to Castleton) Protected Route TR111 – Monmouthshire County Borough Council 2006
<b>4.2.7</b>	M4 Relief Road (Magor to Castleton) Protected Route TR111 Plan – Monmouthshire County Borough Council 2006
<b>4.2.8</b>	New M4 Project (Magor to Castleton) Public Exhibitions Information Leaflet 2006
<b>4.2.9</b>	New M4 Project - WeITAG Planning stage: Workshop Information Pack 2007
<b>4.2.10</b>	New M4 Project Magor to Castleton - WeITAG Planning Stage Report 2009
<b>4.2.11</b>	New M4 Project - Addendum to WeITAG Planning Stage Report Draft 2 2009
<b>4.2.12</b>	National Transport Plan – Oral Statement by Ieuan Wyn Jones AM 2009
<b>4.2.13</b>	New M4 Project Magor to Castleton – WeITAG Appraisal Report Stage 1 - Draft 1 2009
<b>4.2.14</b>	New M4 Project Magor to Castleton – WeITAG Appraisal Report Stage 1 – Draft 3 2010
<b>4.2.15</b>	Design Commission for Wales Review Report November 2007**
<b>4.2.16</b>	Design Commission for Wales Review Report April 2008**
<b>4.3</b>	<b>M4 Corridor Enhancement Measures (CEM) 2010 - 2013</b>
<b>4.3.1</b>	M4 Corridor Enhancement Measures – Strategic Appraisal and Monitoring Report – Draft 2 2010
<b>4.3.2</b>	M4 Corridor Enhancement Measures – Stage 1 Review of problems and goals 2011
<b>4.3.3</b>	Welsh Government M4 Corridor Enhancement Measures: Appraisal Handbook 2011
<b>4.3.4</b>	Welsh Government M4 Corridor Enhancement Measures: Alternatives Considered – Measures Falling Outside of the M4 CEM Programme. Supporting Technical Document 2011
<b>4.3.5</b>	Welsh Government M4 Corridor Enhancement Measures Magor to Castleton (M4 CEM) Easing the Flow. Consultation Document. WG14775. 2012
<b>4.3.6</b>	Welsh Government M4 Corridor Enhancement Measures (M4 CEM) Magor to Castleton – Consultation Document – Easing the Flow Revision A 2012
<b>4.3.7</b>	Welsh Government M4 Corridor Enhancement Measures (M4 CEM) Magor to Castleton – Consultation Document – Easing the Flow Revision B 2012
<b>4.3.8</b>	Welsh Government M4 Corridor Enhancement Measures (M4 CEM) Public Transport Overview 2012
<b>4.3.9</b>	Welsh Government M4 Corridor Enhancement Measures (M4 CEM) Public Transport Overview Appendices 2012
<b>4.3.10</b>	Welsh Government M4 Corridor Enhancement Measures (M4 CEM) Health Impact Assessment. 2012.

<b>Document</b>	
<b>4.3.11</b>	Welsh Government M4 Corridor Enhancement Measures (M4 CEM) Equality Impact Assessment. November 2012.
<b>4.3.12</b>	Welsh Government M4 Corridor Enhancement Measures (CEM) Strategic Environmental Assessment (SEA) Environmental Report. WG16557. 2012
<b>4.3.13</b>	Welsh Government M4 Corridor Enhancement Measures (CEM) Strategic Habitats Regulations Assessment (SHRA) Screening Report. WG16557. 2012
<b>4.3.14</b>	Welsh Government M4 Corridor Enhancement Measures (CEM) Strategic Habitats Regulations Assessment (SHRA) Statement to inform Appropriate Assessment. WG16557. 2012
<b>4.3.15</b>	Welsh Government M4 Corridor Enhancement Measures (M4 CEM) WeITAG Appraisal Report Stage 1 (Strategic Level) 2013
<b>4.3.16</b>	Welsh Government M4 Corridor Enhancement Measures Public Transport Overview Update 2013
<b>4.3.17</b>	Welsh Government M4 Corridor around Newport WeITAG Appraisal Report Stage 1 (Strategic Level) 2013
<b>4.3.18</b>	Welsh Government M4 Corridor Enhancement Measures (M4 CEM) Environmental Assessment Scoping Report 2013
<b>4.3.19</b>	Welsh Government M4 Corridor Enhancement Measures (M4 CEM) Health Impact Assessment Scoping Report 2013
<b>4.3.20</b>	<i>Not in use</i>
<b>4.3.21</b>	Welsh Government M4 Corridor Enhancement Measures (M4 CEM) Participation Report Full Report 2013
<b>4.3.22</b>	Welsh Government M4 Corridor Enhancement Measures (M4 CEM) Participation Report – Executive Summary 2013
<b>4.3.23</b>	Welsh Government M4 Corridor Enhancement Measures (M4 CEM) Participation Report – Appendices 2013
<b>4.4</b>	<b>Draft Plan 2013</b>
<b>4.4.1</b>	Welsh Government M4 Corridor around Newport draft Plan: Consultation Document. WG19741.
<b>4.4.2</b>	Welsh Government M4 Corridor around Newport draft Plan: Equality Impact Assessment. WG19741.
<b>4.4.3</b>	Welsh Government M4 Corridor around Newport draft Plan: Strategic Environmental Assessment Scoping Report.
<b>4.4.4</b>	Welsh Government M4 Corridor around Newport draft Plan: Health Impact Assessment. WG19741.
<b>4.4.5</b>	Welsh Government M4 Corridor around Newport draft Plan: Consideration of the options in relation to the requirements of the Habitats Regulations. WG19741.
<b>4.4.6</b>	Welsh Government M4 Corridor around Newport draft Plan: Strategic Environmental Assessment Environmental Report. WG19741.

<b>Document</b>	
<b>4.4.7</b>	Welsh Government M4 Corridor around Newport draft Plan: Consultation Response Form. WG19741.
<b>4.4.8</b>	Strategic Environmental Assessment Environmental Report - Appendix B: Review of Relevant Plans, Policies and Programmes
<b>4.4.9</b>	Strategic Environmental Assessment Environmental Report - Appendix C: Review of Baseline Information
<b>4.4.10</b>	Strategic Environmental Assessment Environmental Report Non-Technical Summary
<b>4.4.11</b>	Strategic Environmental Assessment Environmental Report Non-Technical Summary - Appendix A: The draft Plan and Reasonable Alternatives
<b>4.4.12</b>	M4 Corridor around Newport Welsh Transport Planning and Appraisal Guidance (WelTAG) Stage 1 Appraisal (Strategy Level) Report
<b>4.5</b>	<b>The Plan 2014</b>
<b>4.5.1</b>	Ministerial Statement – Edwina Hart June 2013
<b>4.5.2</b>	Ministerial Statement – Edwina Hart July 2013
<b>4.5.3</b>	Ministerial Statement –Edwina Hart, Rail Priorities July 2013
<b>4.5.4</b>	The Blue Route – A Cost Effective Solution to relieving M4 Congestion around Newport – Institute of Welsh Affairs and Chartered Institute of Logistics and Transport December 2013
<b>4.5.5</b>	Welsh Government M4 Corridor around Newport - Motorway South of Newport. WelTAG Stage 1 & 2 (Scheme) Appraisal.
<b>4.5.6</b>	M4 Corridor around Newport Outcomes of Draft Plan Process (Redacted)
<b>4.5.7</b>	Welsh Government M4 Corridor around Newport: The Plan.
<b>4.5.8</b>	Welsh Government M4 Corridor around Newport: The Plan. Health Impact Assessment Report.
<b>4.5.9</b>	Welsh Government M4 Corridor around Newport: The Plan. Equality Impact Assessment Report.
<b>4.5.10</b>	Welsh Government M4 Corridor around Newport: The Plan. Consultation Participation Report and Appendices.
<b>4.5.11</b>	Welsh Government M4 Corridor around Newport. The Plan: Consultation Report, Appendix A1: Full Factual Consultation Report
<b>4.5.12</b>	Welsh Government M4 Corridor around Newport: The Plan. Strategic Appraisal of Alternatives Considered During Consultation.
<b>4.5.13</b>	Welsh Government M4 Corridor around Newport: The Plan. Strategic Environmental Assessment Post-Adoption Statement.
<b>4.5.14</b>	The Plan: Strategic Environmental Assessment: Post-Adoption Statement - Appendix A: SEA Scoping Report: Consideration of Statutory Consultee Responses

Document	
<b>4.5.15</b>	The Plan: Strategic Environmental Assessment: Post-Adoption Statement - Appendix B: SEA Environmental Report: Statutory Consultee Responses
<b>4.5.16</b>	The Plan: Strategic Environmental Assessment: Post-Adoption Statement - Appendix C: SEA Environmental Report: Consideration of Statutory Consultee Responses
<b>4.5.17</b>	M4 Corridor around Newport - Motorway to the South of Newport Business Case
<b>4.5.18</b>	Welsh Government M4 Corridor around Newport - Motorway South of Newport. Design Manual for Roads and Bridges Stage 2 Scheme Assessment Report Vol 1 Report and Vol 2 Figures**
<b>4.5.19</b>	Welsh Government M4 Corridor around Newport - Motorway South of Newport. Design Manual for Roads and Bridges Stage 2 Environmental Assessment Vol 2 Appendices.
<b>4.5.20</b>	Statement by the Welsh Government update on the M4 Corridor around Newport
<b>4.5.21</b>	<i>Not in use</i>
<b>4.5.22</b>	Evidence to NAW Environment and Sustainability Committee by Professor Stuart Cole October 2013
<b>4.5.23</b>	Submission to NAW Environment and Sustainability Committee by Wildlife Trust Wales Submission October 2013
<b>4.5.24</b>	Submission to NAW Environment and Sustainability Committee by Friends of the Earth October 2013
<b>4.5.25</b>	Submission to NAW Environment and Sustainability Committee by RSPB October 2013
<b>4.5.26</b>	Letter from Chair of NAW Environment and Sustainability Committee to Edwina Hart AM November 2013
<b>4.5.27</b>	Letter from Edwina Hart AM to the chair of the E & S Committee with Annexes December 2013
<b>4.5.28</b>	Letter from the chair of the E & S Committee to Edwina Hart AM January 2014
<b>4.5.29</b>	Letter from Edwina Hart AM to the chair of the E & S Committee February 2014
<b>4.5.30</b>	Letter from the chair of the E & S Committee to Edwina Hart AM February 2014
<b>4.5.31</b>	Letter from Edwina Hart AM to the chair of the E & S Committee March 2014
<b>4.5.32</b>	Letter from the chair of the E & S Committee to Edwina Hart AM June 2014
<b>4.5.33</b>	Letter from Edwina Hart AM to the chair of the E & S Committee June 2014
<b>4.5.34</b>	Letter from the chair of the E & S Committee to Edwina Hart AM 3 July 2014
<b>4.5.35</b>	Letter from the chain of the Environment and Sustainability Committee to Edwina Hart AM 18 July 2014

Document	
<b>4.5.36</b>	<i>Not in use</i>
<b>4.5.37</b>	Evidence to Environment and Sustainability Committee by Prof Stuart Cole 21 July 2014
<b>4.5.38</b>	National Assembly for Wales – Environment & Sustainability Committee Report July 2014
<b>4.5.39</b>	Letter from Welsh Government to Alun Fred Jones AM, Chair of Environment and Sustainability Committee - 1 September 2014
<b>4.5.40</b>	Letter from Deighton Pierce Glynn to Welsh Government – Judicial Review Letter before Claim 4 December 2013
<b>4.5.41</b>	Letter from Deighton Pierce Glynn to Welsh Government – 18 December 2013
<b>4.5.42</b>	Letter to Deighton Pierce Glynn from Welsh Government – Response to Judicial Review Letter before Claim - 17 Dec 2013
<b>4.5.43</b>	Letter from Deighton Pierce Glynn to Welsh Government - 20 Dec 2013
<b>4.5.44</b>	Email from WG to Deighton Pierce Glynn attaching Letter before Claim and Blue Route Cost Estimate August 2014
<b>4.5.45</b>	R (on the application of Friends of the Earth England, Wales and Northern Ireland Ltd) v Welsh Ministers [2015] EWHC 776 (Admin) 2015
<b>4.5.46</b>	R (on the application of Friends of the Earth England, Wales and Northern Ireland Ltd) v Welsh Ministers [2015] Witness Statement of Martin Bates**
<b>4.5.47</b>	R (on the application of Friends of the Earth England, Wales and Northern Ireland Ltd) v Welsh Ministers [2015] Witness Statement of Helen Bowkett**
<b>4.5.48</b>	R (on the application of Friends of the Earth England, Wales and Northern Ireland Ltd) v Welsh Ministers [2015] Skeleton Argument on behalf of the Claimant**
<b>4.6</b>	<b>2014 Preferred Route</b>
<b>4.6.1</b>	Welsh Government M4 Corridor around Newport Preliminary Sources Study Report 14/9197
<b>4.6.2</b>	Welsh Government M4 Corridor around Newport. Statement of Reasons for Modification of the 2006 Preferred Route for a New Section of Motorway South of Newport
<b>4.6.3</b>	Welsh Government M4 Corridor around Newport: Responses received from participants
<b>4.6.4</b>	M4 Corridor around Newport Junction Strategy Report
<b>4.6.5</b>	M4 Corridor around Newport Economic Assessment Report
<b>4.6.6</b>	M4 Corridor around Newport Local Model Validation Report
<b>4.6.7</b>	M4 Corridor around Newport Traffic Forecasting Report
<b>4.6.8</b>	M4 Corridor around Newport – New Section of Motorway South of Newport Welsh Government letters to Chief Executive of Newport City Council and Monmouthshire County Council (Ref qA 1139852) with TR111 notification

Document	
	Serial Number 2/2014 and TR111 Plan – Drg No 199 – TR111 Revision and Plan
<b>4.6.9</b>	Design Commission for Wales Review Report June 2015**
<b>4.6.10</b>	Design Commission for Wales Review Report October 2015**

## 5 Policy and Guidance (General)

Document	
<b>5.1</b>	<b>Policy</b>
<b>5.1.1</b>	Welsh Assembly Government People, Places, Futures: The Wales Spatial Plan Update 2008
<b>5.1.2</b>	Welsh Assembly Government One Wales: One Planet 2010
<b>5.1.3</b>	Welsh Government Planning Policy Wales Edition 8 2016
<b>5.1.4</b>	Welsh Government Programme for Government 2011-2016
<b>5.1.5</b>	Welsh Government Wales Infrastructure Investment Plan for Growth and Jobs 2012
<b>5.1.6</b>	Welsh Government Wales Infrastructure Investment Plan for Growth and Jobs Annual Report including Annex: Project Pipeline Update 2015
<b>5.1.7</b>	Welsh Government National Transport Finance Plan 2015
<b>5.1.8</b>	Welsh Government Sustainable Development Scheme - Learning to Live Differently, 2000**
<b>5.1.9</b>	Climate Change Strategy for Wales 2010**
<b>5.1.10</b>	Planning Policy Wales Chapter 6: The Historic Environment, Consultation Draft**
<b>5.1.11</b>	Taking Wales Forward 2016-2021, Welsh Government (2016)**
<b>5.1.12</b>	Welsh Government Planning Policy Wales Edition 9 2016**
<b>5.2</b>	<b>Guidance</b>
<b>5.2.1</b>	Institute of Environmental Management and Assessment (IEMA) Guidelines for Environmental Impact Assessment 2004
<b>5.2.2</b>	Well-being of Future Generations Act: National Indicators for Wales. Technical Information (2015)
<b>5.2.3</b>	Well-being of Future Generations Act: National Indicators for Wales (2015)
<b>5.2.4</b>	SPSF1: Core Guidance (Shared Purpose: Shared Future, Statutory Guidance on the Well-being of Future Generations (Wales) Act 2015
<b>5.2.5</b>	Taking Wales Forward: Welsh Government's Well-being Objectives (2016)**
<b>5.2.6</b>	Transport Orders - Planning Inspectorate Guidance***
<b>5.2.7</b>	National Development Framework: Statement of Public Participation 2016***
<b>5.2.8</b>	National Development Framework: Call for Evidence and Projects 2016***
<b>5.3</b>	<b>Local Development Plans</b>
<b>5.3.1</b>	Newport City Council Newport Local Development Plan 2011-2026, adopted 2015

<b>Document</b>	
<b>5.3.2</b>	Monmouthshire County Council Monmouthshire County Council Local Development Plan 2011-2021, adopted 2014
<b>5.3.3</b>	Monmouthshire County Council (2014) Deposit Local Development Plan Habitats Regulations Assessment (Appropriate Assessment) Addendum Report 2014
<b>5.3.4</b>	Cardiff City Council Cardiff Local Development Plan 2006-2026, adopted 2016
<b>5.4</b>	<b>Publications</b>
<b>5.4.1</b>	M4 motorway: Wales' 'economic lifeblood' and commuting Achilles heel (2016)**



## 6 Transport and Engineering

Document	
<b>6.1</b>	<b>Policy and Guidance</b>
<b>6.1.1</b>	Welsh Assembly Government Trunk Road Estate Biodiversity Action Plan 2004-2014
<b>6.1.2</b>	Welsh Assembly Government Planning Policy Wales Technical Advice Note 18: Transport 2007
<b>6.1.3</b>	Welsh Assembly Government One Wales: Connecting the Nation. The Wales Transport Strategy 2008
<b>6.1.4</b>	Welsh Transport Planning and Appraisal Guidance (WelTAG) 2008
<b>6.1.5</b>	Welsh Assembly Government National Transport Plan 2010
<b>6.1.6</b>	A Cardiff Capital Region Metro: Impact study Executive Summary 2013
<b>6.1.7</b>	Manual of Contract Documents for Highway Works – Volume 3 – Highway Construction Details 2014
<b>6.1.8</b>	Design Manual for Roads and Bridges 2014
<b>6.1.9</b>	Web-based Transport Analysis Guidance (WebTAG) January 2014
<b>6.1.10</b>	Department for Transport Road Investment Strategy for Period 2015/16-2019/20
<b>6.1.11</b>	Interim Advice Note 185/15 Updated traffic, air quality and noise advice on the assessment of link speeds and generation of vehicle data into 'speed-bands' for users of DMRB Volume 11, Section 3, Part 1 Air Quality and Volume 11, Section 3. Part 7 Noise 2015
<b>6.1.12</b>	Interim Advice Note 125/15 Environmental Assessment Update Highways Agency 2015
<b>6.1.13</b>	Traffic Signs Manual Chapter 8 (2009) Summary of key changes [extract]**
<b>6.1.14</b>	Traffic Signs Manual Chapter 8 (2009) Traffic Safety Measures and Signs for Road Works and Temporary Situations Part 1: Design**
<b>6.1.15</b>	Traffic Signs Manual Chapter 8 (2009) Traffic Safety Measures and Signs for Road Works and Temporary Situations Part 2: Operations**
<b>6.1.16</b>	Department for Transport Circular 02/2013 – The Strategic Road Network and the Delivery of Sustainable Development**
<b>6.1.17</b>	HM Treasury Budget 2016**
<b>6.1.18</b>	HM Treasury Green Book 2011**
<b>6.1.19</b>	HM Treasury Green Book: Supplementary Green Book Guidance**
<b>6.1.20</b>	Severn Bridges Act 1992**
<b>6.1.21</b>	TUBA General Advice and Guidance 2016**
<b>6.1.22</b>	COBALT User Manual 2013**

Document	
<b>6.1.23</b>	Transport Investment and Economic Performance 2014**
<b>6.1.24</b>	D. J. Webber et al (2016) "Understanding productivity variations between Wales and England," Report to the Government of Wales**
<b>6.1.25</b>	Extending the research on understanding the productivity variations between Wales and the UK**
<b>6.1.26</b>	Productivity in Wales: analysis of the impacts of peripherality on spatial patterns of productivity**
<b>6.2</b>	<b>Reports</b>
<b>6.2.1</b>	M4 Corridor around Newport - Alignment & Junctions Report 2016**
<b>6.2.2</b>	M4 Corridor around Newport - Ground Investigation Report 2016**
<b>6.2.3</b>	M4 Corridor around Newport - Geotechnical Design Report 2016**
<b>6.2.4</b>	M4 Corridor around Newport - Design Options Report Volume 1 2015**
<b>6.2.5</b>	M4 Corridor around Newport - Design Options Report Volume 2 2015**
<b>6.2.6</b>	M4 Corridor around Newport - Reclassification of the M4 and A48(M): Design and Options Report 2015**
<b>6.2.7</b>	<i>Not in Use</i>
<b>6.2.8</b>	M4 Corridor around Newport - Stage 1 Road Safety Audit Response Report 2016 (includes Road Safety Audit Report)**
<b>6.2.9</b>	M4 Corridor around Newport - Stage 1 Road Safety Audit Exceptions Report 2016***
<b>6.2.10</b>	<i>Not in Use</i>
<b>6.2.11</b>	M4 Corridor around Newport - Addendum to Stage 1 Road Safety Audit Response Report 2016**
<b>6.2.12</b>	<i>Not in Use</i>
<b>6.2.13</b>	<i>Not in Use</i>
<b>6.2.14</b>	Stage 1 Road Safety Audit Response Report – Reclassification of M4/A48(M) Complementary Measure for the M4 Corridor around Newport 2016**
<b>6.2.15</b>	<i>Not in use</i>
<b>6.2.16</b>	M4 Corridor around Newport - Traffic and Collisions Report 2016**
<b>6.2.17</b>	<i>Not in Use</i>
<b>6.2.18</b>	M4 Corridor around Newport - Non-motorised User Context Report - March 2016
<b>6.2.19</b>	<i>Not in use</i>
<b>6.2.20</b>	M4 Corridor around Newport - Non-motorised User Audit Report (New motorway corridor) 2016**
<b>6.2.21</b>	M4 Corridor around Newport - Non-motorised User Audit Report (Existing motorway corridor) 2016**

<b>Document</b>	
<b>6.2.22</b>	M4 Corridor around Newport - Departures from Standards (Highways) Report 2016***
<b>6.2.23</b>	M4 Corridor around Newport - Departures from Standard Report (Reclassified M4) 2016***
<b>6.2.24</b>	M4 Corridor around Newport - Approval in Principle – SBR 1000 River Usk Crossing 2016***
<b>6.2.25</b>	M4 Corridor around Newport - Approval in Principle – SBR-0650 Duffryn Railway Underbridge 2016**
<b>6.2.26</b>	M4 Corridor around Newport - Approval in Principle – SBR-2000 Llandeenny Railway Underbridge 2016**
<b>6.2.27</b>	Alignment & Junctions Report Supplement 1 September 2016**
<b>6.2.28</b>	Stage 1 Non-Motorised User Audit Report for Proposed M4 Supplement**
<b>6.2.29</b>	<i>Not in use</i>
<b>6.2.30</b>	Ground Investigation Report Supplement**
<b>6.2.31</b>	Geotechnical Design Report Supplement**
<b>6.2.32</b>	<i>Not in use</i>
<b>6.2.33</b>	River Usk Crossing Future Maintenance Report***
<b>6.2.34</b>	Alignment & Junctions Report Supplement 2 December 2016**
<b>6.2.35</b>	Appraisal of Objectors' Alternative Blue Route Proposals**
<b>6.3</b>	<b>Publications</b>
<b>6.3.1</b>	Standing Advisory Committee on Trunk Road Appraisal (SACTRA) Final report. Department for Transport. 1996
<b>6.3.2</b>	Eddington, R. The Eddington transport study. The case for action: Sir Rod Eddington's advice to Government, HM Treasury 2006
<b>6.3.3</b>	Graham, D. Investigating the link between productivity and agglomeration for UK industries. Imperial College 2006
<b>6.3.4</b>	Welsh Government A Cardiff Capital Region Metro: Impact Study. Report to the Minister for Economy, Science and Transport. Jones Lang LaSalle, Powell Dobson Urbanists, M & G Barry Consulting, Capita Symonds and Steer Davies Gleeve. 2013
<b>6.3.5</b>	Road Transport Forecasts 2013
<b>6.3.6</b>	Welsh Government A Cardiff Capital Region Metro: Update Report , August 2014
<b>6.3.7</b>	Road Transport Forecasts 2015
<b>6.3.8</b>	Understanding the drivers of road travel: current trends in and factors behind roads use – Department for Transport 2015
<b>6.3.9</b>	FSB (Moving Wales Forward 2016)

## 7 Port of Newport and Shipping

Document	
<b>7.1</b>	<b>Reports</b>
<b>7.1.1</b>	ABP Explosives Licence 1992
<b>7.1.2</b>	Master Plan – Port of Newport – Draft for Discussion 2010
<b>7.1.3</b>	Economic Value of ABP to UK plc January 2014
<b>7.1.4</b>	ABP - Hazardous Substances Consent Application documents 2015
<b>7.1.5</b>	Department for Transport (DFT) (2015) UK ports, ship arrivals by type and deadweight. Available at <a href="https://www.gov.uk/government/statistical-data-sets/port06-uk-ship-arrivals">https://www.gov.uk/government/statistical-data-sets/port06-uk-ship-arrivals</a>
<b>7.1.6</b>	The Port of Newport Masterplan 2015-2035 Consultation Draft
<b>7.1.7</b>	NAW Enterprise and Business Committee – Consultation Question Response from ABP – 2016
<b>7.1.8</b>	NAW Enterprise and Business Committee The Potential of the Maritime Economy in Wales Report February 2016
<b>7.1.9</b>	Liebherr – Crane Operations within Newport Docks in relation to the Proposed M4 Extension 2016
<b>7.1.10</b>	ABP - Port of Newport – M4 Proposal: Impact on the Port's Mobile Harbour Cranes 2016
<b>7.1.11</b>	ABP Leaflet on the Black Route (Undated)
<b>7.1.12</b>	ABP – Delivering Jobs and Driving Growth publication (Undated)
<b>7.1.13</b>	The Port of Newport Masterplan 2015-2035 Welsh Government Consultation Response (August 2016)
<b>7.1.14</b>	Letter from Rt Hon Chris Grayling MP August 2016*
<b>7.1.15</b>	Admiralty chart #1176 (no. 11 dated February 2016)**
<b>7.1.16</b>	Admiralty Tide Tables (pg 428, NP201, UKHO, 2016)**
<b>7.1.17</b>	Admiralty Sailing Directions West Coast of England and Wales Pilot NP37, 19th Edition, 2014**
<b>7.1.18</b>	National Policy Statement for Ports, January 2012***

## 8 Air Quality & Carbon

Document	
<b>8.1</b>	<b>Legislation</b>
<b>8.1.1</b>	Council Directive 2008/50/EC: Directive 2008/50/EC of the European Parliament and of the Council of 21 May 2008 on Ambient Air Quality and Cleaner Air for Europe, Official Journal of the European Union No L 152/2 2008
<b>8.1.2</b>	The Air Quality (Wales) Regulations 2000 No. 1940 (WSI 2000 No. 1940 (W. 138)).
<b>8.1.3</b>	The Air Quality (Amendment) (Wales) Regulations 2002 (WSI 2002 No. 3182 (Wales 298)).
<b>8.1.4</b>	The Air Quality Standards (Wales) Regulations 2010 (WSI 2010 No. 1433 (W.126)).
<b>8.2</b>	<b>Policy and Guidance</b>
<b>8.2.1</b>	Department for Environment Food and Rural Affairs (Defra), Scottish Executive, Welsh Assembly Government and Department of the Environment Northern Ireland National Air Quality Strategy 2007
<b>8.2.2</b>	Welsh Assembly Government Part IV of the Environment Act 1995: Local Air Quality Management. Local Air Quality Management Policy Guidance for Wales 2009
<b>8.2.3</b>	Department for Environment Food and Rural Affairs (Defra) Local Air Quality Management Technical Guidance 2009
<b>8.2.4</b>	Welsh Government and Department for Environment, Food & Rural Affairs A Climate Change Risk Assessment for Wales 2012
<b>8.2.5</b>	Highways Agency IAN 174/13 Updated Advice for Evaluating Significant Local Air Quality Effects for Users of DMRB Volume 11, Section 3, Part 1. Air Quality (HA207/07) 2013
<b>8.2.6</b>	Highways Agency IAN 170/12v3 Updated Air Quality Advice on the Assessment of Future NOx and NO2 Projections for Users of DMRB Volume 11, Section 3, Part 1 Air Quality 2013
<b>8.2.7</b>	Institute of Air Quality Management (IAQM) Guidance on the Assessment of Dust from Demolition and Construction. 2014
<b>8.2.8</b>	Highways Agency IAN 185/15 Updated Traffic, Air Quality and Noise Advice on the Assessment of Link Speeds and Generation of Vehicle Data into 'Speed-bands' for Users of DMRB Volume 11, Section 3, Part 1 Air Quality and Volume 11, Section 3, Part 7 Noise. 2015
<b>8.2.9</b>	Welsh Assembly Government Part IV of the Environment Act 1995: Local Air Quality Management. Local Air Quality Management Policy Guidance for Wales 2016
<b>8.2.10</b>	PAS 2080 Carbon Management in Infrastructure (2016)**

<b>8.2.11</b>	DEFRA Local Air Quality Management Technical Guidance (TG16) 2016
<b>8.3</b>	<b>Publications</b>
<b>8.3.1</b>	The Potential Impact of the proposed M4 relief road on greenhouse gas emissions- Report Dr Glynn/Prof Anderson (commissioned by WTW) 2014
<b>8.3.2</b>	Infrastructure Carbon Review (2013) Technical Report. The Green Construction Board for the HM Treasury. 23 November 2013**
<b>8.3.3</b>	DECC: Single Departmental plan 2015 to 2020, July 2016**
<b>8.3.4</b>	NAEI: Greenhouse Gas Inventories for England, Scotland, Wales and Northern Ireland: 1990-2014. June 2016**
<b>8.3.5</b>	Pantelidou, Casey, Chapman, Guthrie and Soga (2016) Re-thinking UK transport emissions – getting to the 2050 targets. Proceedings of the Institution of Civil Engineers – Civil Engineering. ISSN 0965- 089X   E-ISSN 1751-7672. June 2016**
<b>8.3.6</b>	Effects of alignment on CO2 emissions from the construction and use phases of highway infrastructure, Hughes, L (2012). Dissertation submitted for the degree of Doctor of Philosophy, University of Cambridge, Department of Engineering January 2012***

## 9 Cultural Heritage

Document	
<b>9.1</b>	<b>Policy and Guidance</b>
<b>9.1.1</b>	Welsh Office Welsh Office Circular 60/96 Planning and the Historic Environment: Archaeology. 1996
<b>9.1.2</b>	Welsh Office Welsh Office Circular 61/96 Planning and the Historic Environment: Historic Buildings and Conservation Areas. 1996
<b>9.1.3</b>	Welsh Office Welsh Office Circular 1/98 Planning and the Historic Environment: Directions by the Secretary of State for Wales. 1998
<b>9.1.4</b>	Cadw, Countryside Council for Wales (CCW) and Welsh Assembly Government Guide to Good Practice on Using the Register of Landscapes of Historic Interest in Wales in the Planning and Development Process. Revised (2nd) Edition Including Revisions to the Assessment Process (ASIDOHL2). 2007
<b>9.1.5</b>	Highways Agency (2007) Assessing the Effect of Road Schemes on Historic Landscape Character. 2007.
<b>9.1.6</b>	Welsh Assembly Government Conservation Principles for the Sustainable Management of the Historic Environment in Wales. 2011
<b>9.1.7</b>	Welsh Government Historic Environment (Wales) Bill – Complementary Document for Consideration. Draft Technical Advice Note 24: Historic Environment. 2015
<b>9.1.8</b>	Historic England The Settings of Heritage Assets, Historic Environment Good Practice Advice in Planning: Note 3. 2015
<b>9.1.9</b>	Newport City Council Archaeology and Archaeologically Sensitive Areas Supplementary Planning Guidance. 2015.
<b>9.1.10</b>	Historic Environment Strategy for Wales (Welsh Government 2013)**

## 10 Landscape and Visual Effects

Document	
<b>10.1</b>	<b>Legislation</b>
<b>10.1.1</b>	National Parks and Access to the Countryside Act 1949
<b>10.1.2</b>	Welsh Office Roads in Lowland Areas: Design Guide 1993
<b>10.1.3</b>	Welsh Government Interim Advice Note 135/10 Landscape and Visual Effects Assessment, Wales Only 2014
<b>10.2</b>	<b>Policy and Guidance</b>
<b>10.2.1</b>	Department of the Environment, Welsh Office Welsh Office Circular 64/78: Trees and Forestry 1978
<b>10.2.2</b>	Department of the Environment, Welsh Office Welsh Office Circular 5/93: Public Rights of Way 1993
<b>10.2.3</b>	Welsh Government Technical Advice Note 12: Design 2014
<b>10.3</b>	<b>Publications</b>
<b>10.3.1</b>	Countryside Council for Wales (2015) LANDMAP – The Landscape Atlas. Available at: <a href="http://www.ccw.gov.uk/landmap">http://www.ccw.gov.uk/landmap</a> , accessed on-line 2015.



## 11 Ecology and Nature Conservation

Document	
<b>11.1</b>	<b>Legislation</b>
<b>11.1.1</b>	The Protection of Badgers Act 1992
<b>11.1.2</b>	Eels (England and Wales) Regulations 2009
<b>11.2</b>	<b>Policy and Guidance</b>
<b>11.2.1</b>	National Rivers Authority River Corridor Surveys: Conservation Technical Handbook 1. 1992
<b>11.2.2</b>	Institute for Environmental Assessment (IEA) Guidelines for Baseline Ecological Assessment 1995
<b>11.2.3</b>	Countryside Council for Wales Guidance Note 2: Flora Monitoring on the Gwent Levels Sites of Special Scientific Interest. Countryside Council for Wales 1996
<b>11.2.4</b>	Welsh Assembly Government Planning Policy Wales Technical Advice Note 10: Tree Preservation Orders 1997
<b>11.2.5</b>	English Nature Great Crested Newt Mitigation Guidelines 2001
<b>11.2.6</b>	European Commission 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 DG Environment 2001
<b>11.2.7</b>	South Wales Wildlife Sites Partnership Guidelines for the Selection of Wildlife Sites in South Wales. 2004
<b>11.2.8</b>	Monmouthshire County Council Monmouthshire Local Biodiversity Action Plan 2005
<b>11.2.9</b>	CIEEM Guidelines for Ecological Impact Assessment in the UK. Chartered Institute of Ecology and Environmental Management, Winchester 2006
<b>11.2.10</b>	DEFRA Hedgerow Survey Handbook. Department for Environment, Food and Rural Affairs 2007
<b>11.2.11</b>	JNCC (2008). Information Sheet on Ramsar Wetlands (RIS): Severn Estuary. Version 3.0. 2008
<b>11.2.12</b>	Wales Biodiversity Partnership Guidelines for the Selection of Wildlife Sites in Wales 2008
<b>11.2.13</b>	Welsh Assembly Government Interim Advice Note 116/08 (W) Nature Conservation Advice in Relation to Bats. Wales Only 2009
<b>11.2.14</b>	Welsh Assembly Government Planning Policy Wales Technical Advice Note 5: Nature Conservation and Planning 2009

Document	
<b>11.2.15</b>	Natural England & CCW (The Severn Estuary / Môr Hafren European Marine Site comprising: The Severn Estuary / Môr Hafren Special Area of Conservation (SAC), The Severn Estuary Special Protection Area (SPA), The Severn Estuary / Môr Hafren Ramsar Site. Natural England & the Countryside Council for Wales' advice given under Regulation 33(2)(a) of the Conservation (Natural Habitats, &c.) Regulations 1994, as amended. 2009
<b>11.2.16</b>	Newport City Council River Usk Strategy 2009
<b>11.2.17</b>	ARG UK Advice Note 5 - Great Crested Newt Habitat Suitability Index. Amphibian and Reptile Groups of the United Kingdom 2010
<b>11.2.18</b>	Environment Agency Wye and Usk Catchment Flood Management Plan 2010
<b>11.2.19</b>	Highways Agency Interim Advice Note 130/10 Ecology and Nature Conservation: Criteria for Impact Assessment 2010
<b>11.2.20</b>	JNCC Handbook for Phase 1 habitat survey - a technique for environmental audit. Joint Nature Conservation Committee 2010
<b>11.2.21</b>	JNCC UK priority species pages – Version 2. UK Priority Species data collation Rhinolophus hipposideros version 2 updated on 15/12/2010. Joint Nature Conservation Committee 2010
<b>11.2.22</b>	Severn Estuary Coastal Group Severn Estuary Shoreline Management Plan (SMP2). Appendix I: Part B - Habitats Regulations Assessment 2010
<b>11.2.23</b>	Severn Estuary Coastal Group Severn Estuary Shoreline Management Plan (SMP2). The Shoreline Management Plan: Part C (Main Report) - Action Plan. – Into Water & Drainage 2010
<b>11.2.24</b>	Environment Agency Pollution Prevention Guidance (PPG)22: Dealing with Spills 2011
<b>11.2.25</b>	Highways Agency A Review of Bat Mitigation in Relation to Highway Severance. Hundt, L. 2011
<b>11.2.26</b>	Bat Surveys: Good Practice Guidelines, 2nd edition, Bat Conservation Trust 2012
<b>11.2.27</b>	JNCC UK Post-2010 Biodiversity Framework. Joint Nature Conservation Committee 2012
<b>11.2.28</b>	Welsh Government Action Plan for Pollinators in Wales 2013
<b>11.2.29</b>	<i>Not in use</i>
<b>11.2.30</b>	Newport Biodiversity Partnership Newport Local Biodiversity Action Plan 2014
<b>11.2.31</b>	Newport City Council Wildlife and Development Supplementary Planning Guidance (SPG) 2015
<b>11.2.32</b>	CIEEM Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater and Coastal, 2nd edition. Chartered Institute of Ecology and Environmental Management, Winchester 2016
<b>11.2.33</b>	Highways Agency: CIRIA Habitat Translocation 'A Best Practice Guide' 2003**
<b>11.2.34</b>	EA Guidance on eel passes**

<b>Document</b>	
<b>11.3</b>	<b>Publications</b>
<b>11.3.1</b>	Countryside Council for Wales Botanical Survey of Reens, Gwent Levels. 1991
<b>11.3.2</b>	Gilbert, G., Gibbons, D.W. and Evans, J. Bird Monitoring Methods: A manual of techniques for key UK species. RSPB, Bedfordshire.1998
<b>11.3.3</b>	Froglife Froglife Advice Sheet 10: reptile survey. Froglife, London. 1999
<b>11.3.4</b>	Bibby, C.J., Burgess, N.D., Hill, D.A. and Mustoe, S.H. Bird Census Techniques, 2nd Edition. Academic Press, London. 2000
<b>11.3.5</b>	Bright, P., Morris, P. & Mitchell-Jones, T. The dormouse conservation handbook (2nd edition). English Nature. 2006
<b>11.3.6</b>	Bat Conservation Trust and the Institution of Lighting Engineers Bats and Lighting in the UK. Bat Conservation Trust, London, UK. 2008
<b>11.3.7</b>	Countryside Council for Wales (CCW) Gwent Levels: Magor and Undy Site of Special Scientific Interest. Your Special Site and Its Future 2008
<b>11.3.8</b>	Countryside Council for Wales (CCW) Gwent Levels: Nash and Goldcliff Site of Special Scientific Interest. Your Special Site and Its Future 2008.
<b>11.3.9</b>	Countryside Council for Wales (CCW) Gwent Levels: Redwick and Llandeveyney Site of Special Scientific Interest. Your Special Site and Its Future 2008.
<b>11.3.10</b>	Countryside Council for Wales (CCW) Gwent Levels: Whitson Site of Special Scientific Interest. Your Special Site and Its Future 2008.
<b>11.3.11</b>	Countryside Council for Wales (CCW) Gwent Levels: St Brides Site of Special Scientific Interest. Your Special Site and Its Future 2008.
<b>11.3.12</b>	Countryside Council for Wales (CCW) Gwent Levels: Rumney and Peterstone Site of Special Scientific Interest. Your Special Site and Its Future 2008.
<b>11.3.13</b>	Dines, T. D. A vascular plant red data list for Wales. Plantlife International, Salisbury. 2008
<b>11.3.14</b>	Boyce Monitoring Invertebrate Features on SSSIs: Aquatic Invertebrates on Gwent Levels: Whitson SSSI, D C Boyce. CCW Regional Report No. CCW/SEW/10/1. 2009
<b>11.3.15</b>	Shawyer, C. R. Barn Owl Tyto alba Survey Methodology and Techniques for use in Ecological Assessment: Developing Best Practice in Survey and Reporting. IEEM, Winchester. 2011
<b>11.3.16</b>	Strachan, R., Moorhouse, T. & Gelling, M. Water vole Conservation Handbook (third edition). WildCRu: Oxford. 2011
<b>11.3.17</b>	Boyce Monitoring invertebrate features on Sites of Special Scientific Interest: aquatic invertebrates on the Gwent Levels: Redwick and Llandeveyney SSSI, St Brides SSSI. DC Boyce. CCW Regional Report No. SEW/12/01. 2012

Document	
<b>11.3.18</b>	Boyce Monitoring invertebrate features on Sites of Special Scientific Interest: aquatic invertebrates on the Gwent Levels: Magor and Undy SSSI, Nash and Goldcliff SSSI, Newport Wetlands SSSI, Rumney and Peterstone SSSI. DC Boyce. CCW Regional Report No. CCW/SEW/13/3. 2013
<b>11.3.19</b>	Eaton M.A., Brown A.F., Musgrove A.J., Hearn R., Aebischer N.J., Stroud D.A. Birds of Conservation Concern 4: the population status of birds in the United Kingdom, Channel Islands and the Isle of Man. British Birds 108, p708–746. 2015
<b>11.3.20</b>	Collins, J. (ed.) Bat Surveys for Professional Ecologists: Good Practice Guidelines (3rd edn), The Bat Conservation Trust, London. 2016
<b>11.3.21</b>	Griffith et al (2004) The Conservation of Waxcap Grasslands**
<b>11.3.22</b>	Wright (2015) Translocation of Waxcaps**
<b>11.3.23</b>	The Dormouse Reintroduction Programme: A Review. Natural England 2014**
<b>11.3.24</b>	The Distribution and Status of the Polecat ( <i>Mustela putorius</i> ) in Britain 2014-2015. Vincent Wildlife Trust**
<b>11.3.25</b>	Bassett, S. (2013) Literature review and analysis of the effectiveness of mitigation measures to address environmental impacts on linear transport infrastructure on protected species and habitats. Natural England**
<b>11.3.26</b>	Behaviour of specialist species in habitat corridors: arboreal dormice avoid corridor gaps, Animal Behaviour, 1998**
<b>11.3.27</b>	Bright, P. W., Morris, M. and Wiles, N.J. (2009) Effects of weather and season on the summer activity of Dormice <i>Muscardinus avellanarius</i> . Journal of Zoology 238(3):521 – 530**
<b>11.3.28</b>	Chanin, P. and Gubert, L. (2012) Common dormouse ( <i>Muscardinus avellanarius</i> ) movements in a landscape fragmented by roads. Lutra 55 (1): 3-15**
<b>11.3.29</b>	Chartered Institute of Ecology and Nature Conservation [CIEEM] (2008) Response from the Institute Of Ecology and Environmental Management regarding the Royal Commission Study on artificial light in the environment. Cieem**
<b>11.3.30</b>	Dean, M., Strachan, R., Gow, D. and Andrews, R. (2016) The Water Vole Mitigation Handbook (The Mammal Society Mitigation Guidance Series). Eds. Fiona Mathews and Paul Chanin. The Mammal Society, London**
<b>11.3.31</b>	Wembridge, D., Al-Fulaji, N. and Langton, S. (2016) The State of Britain's Dormice 2016. People's Trust for Endangered Species, London**
<b>11.3.32</b>	M4 Corridor around Newport: SSSI Mitigation Strategy
<b>11.3.33</b>	CCW Science Report No. 623, The status of the shrill carder bee 2005**
<b>11.3.34</b>	CCW Science Report No. 972, The status and distribution of the shrill carder bee 2011**
<b>11.3.35</b>	EC Directive 79/409/EEC on the conservation of wild birds 2009**

Document	
<b>11.3.36</b>	Convention on Wetlands of International Importance especially as Waterfowl Habitat (Ramsar Convention)
<b>11.3.37</b>	OSPAR Threatened and/or Declining Habitats. Compiled on behalf of the OSPAR Commission by JNCC 2014
<b>11.3.38</b>	BTO WeBS Core Count Methodology (2012)**
<b>11.3.39</b>	Gregory et al, The population status of birds in the United Kingdom, Channel Islands and Isle of Man (2002)**
<b>11.3.40</b>	Batey (2013) - Distribution of Barn Owl nests in relation to altitude in SW Eng**
<b>11.3.41</b>	BTO (2010) - Barn Owl Monitoring Programme Final**
<b>11.3.42</b>	Nagle (2007) - The loss of Barn Owl breeding and roost sites in County Cork**
<b>11.3.43</b>	Ramsden (2004) - Barn Owls and Major Roads**
<b>11.3.44</b>	Shawyer & Dixon (1999) - Impact of Roads on Barn Owl**
<b>11.3.45</b>	Toms et al (2001) - The status of breeding Barn Owls in the United Kingdom 1995 to 97**
<b>11.3.46</b>	Arup (2014) M4 Corridor Around Newport Breeding Bird Survey Report 2014**
<b>11.3.47</b>	Balmer et al (2011) BTO Bird Atlas 2007 to 11 Cetti's**
<b>11.3.48</b>	Holling and RBBP (2007) Rare breeding birds in the UK 2007**
<b>11.3.49</b>	Holling and RBBP (2010) Rare breeding birds in the UK 2010**
<b>11.3.50</b>	Musgrove et al (2013) Population Estimates UK and GB 2013**
<b>11.3.51</b>	Robinson et al (2007) Cetti's Warbler expanding population UK analysis**
<b>11.3.52</b>	Thomson Ecology (2015) Breeding Bird and Breeding Wader Surveys, M4 Corridor around Newport**
<b>11.3.53</b>	Bonham and Robertson (1975) The Spread of Cetti's**
<b>11.3.54</b>	Cramp et al (1992) the Birds of the Western Palearctic Cetti's Warbler**
<b>11.3.55</b>	Molina et al (1998) Diet of Cetti's warblers**
<b>11.3.56</b>	Robinson et al (2007) Cetti's Warbler expanding population UK analysis**
<b>11.3.57</b>	Great Crane Project (2015) 2015 Report**
<b>11.3.58</b>	Stehn and Wassenich (2008) Whooping Crane Collisions with Power Lines**
<b>11.3.59</b>	McClure et al (2013) Avoiding the phantom road**
<b>11.3.60</b>	Reijnen and Foppen (1997) Disturbance by traffic of breeding birds**
<b>11.3.61</b>	Reijnen et al (1995) Effect of Car Traffic on Breeding Woodland Birds**
<b>11.3.62</b>	Murata and Feest (2015) A case study of evidence for showing no net loss of bird biodiversity in a development project**
<b>11.3.63</b>	Report to Inform an Appropriate Assessment for the Firth of Forth SPA 2009**

<b>Document</b>	
<b>11.3.64</b>	Forth Islands and Imperial Dock Lock, Leith SPAs Appendix B - Survey Methods and Survey Effort**
<b>11.3.65</b>	Logie and Bryant (1994) Shorebirds and Bridges Avian Ecology Unit, University of Stirling**
<b>11.3.66</b>	Natural England & CCW (2007) Disturbance and Protected Species**
<b>11.3.67</b>	TIDE (2013) Waterbird Disturbance & Mitigation Toolkit Tidal River Development Project**
<b>11.3.68</b>	BOU (2015) - The Official List of Bird Species Recorded in Britain**
<b>11.3.69</b>	Harris SJ et al (2015) The Breeding Bird Survey 2014 BTO**
<b>11.3.70</b>	Burton NHK et al (2010) Birds of the Severn Estuary and Bristol Channel: Their current status and key environmental issues. Marine Pollution Bulletin 61, p. 115-123***
<b>11.4</b>	<b>SSSI Citations</b>
<b>11.4.1</b>	Countryside Council for Wales Citation - Magor Marsh
<b>11.4.2</b>	Countryside Council for Wales Citation - Nash & Goldcliff
<b>11.4.3</b>	Countryside Council for Wales Citation - Redwick & Llandeveyny
<b>11.4.4</b>	Countryside Council for Wales Citation - Rumney & Peterstone
<b>11.4.5</b>	Countryside Council for Wales Citation - St Brides
<b>11.4.6</b>	Countryside Council for Wales Citation – Whiston
<b>11.4.7</b>	Countryside Council for Wales Citation – Newport Wetlands***
<b>11.4.8</b>	Countryside Council for Wales Citation – River Usk (Lower Usk)***

## 12 Geology and Soils

Document	
<b>12.1</b>	<b>Legislation</b>
<b>12.1.1</b>	Environmental Protection Act 1990
<b>12.1.2</b>	Water Resources Act 1991
<b>12.1.3</b>	Groundwater Regulations 1998
<b>12.1.4</b>	Waste Framework Directive 2008/98/EC (2008).
<b>12.1.5</b>	Water Act 2003
<b>12.1.6</b>	Hazardous Waste (England and Wales) Regulations 2005
<b>12.1.7</b>	Contaminated Land (Wales) Regulations 2006
<b>12.1.8</b>	Groundwater (England and Wales) Regulations 2009
<b>12.1.9</b>	Environmental Permitting (England and Wales) Regulations 2010
<b>12.2</b>	<b>Policy and Guidance</b>
<b>12.2.1</b>	CIRIA C552: Contaminated land risk assessment A guide to good practice. 2001
<b>12.2.2</b>	Environment Agency Piling and Penetrative Ground Improvement Methods on Land Affected by Contamination: Guidance on Pollution Prevention National Groundwater and Contaminated Land Centre report NC/99/73. 2001
<b>12.2.3</b>	Environment Agency and Defra Model Procedures for the Management of Land Contamination, Contaminated Land Report 11 (CLR11). 2004
<b>12.2.4</b>	CIRIA C665: Assessing Risks Posed by Hazardous Ground Gases to Buildings. 2007
<b>12.2.5</b>	UK Technical Advisory Group (UKTAG) on the Water Framework Directive (WFD) Proposals For Environmental Quality Standards For Annex VIII Substances Revised 2008
<b>12.2.6</b>	CIRIA C681: Unexploded Ordnance (UXO): A guide for the construction industry. London 2009
<b>12.2.7</b>	British Standards Institute BS5930: Code of Practice for Site Investigations including Amendment 2, issued 2010
<b>12.2.8</b>	CL:AIRE Contaminated Land: Applications in Real Environments The Definition of Waste: Development Industry Code of Practice v2. 2011
<b>12.2.9</b>	UK Technical Advisory Group (UKTAG) on the Water Framework Directive (WFD) Final version for UKTAG. Status: final version for UKTAG consultation (v4.2). 2012
<b>12.2.10</b>	Welsh Local Government Association (WLGA) and Environment Agency Development of Land Affected by Contamination: A Guide for Developers 2012
<b>12.2.11</b>	Regionally Important Geological Sites (RIGS) Background Paper 2012 (see 13.3.6)

<b>Document</b>	
<b>12.2.12</b>	British Standards Institute BS8576: Guidance on Investigations of Ground Gas. Permanent Gases and Volatile Organic Compounds (VOCs). 2013
<b>12.2.13</b>	British Standards Institute BS10175: Code of Practice for Investigation of Potentially Contaminated Sites 2013
<b>12.2.14</b>	CL:AIRE Contaminated Land: Applications in Real Environments SP1010 – Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination. 2013
<b>12.2.15</b>	Environment Agency Groundwater Protection: Policy and Practice (GP3) v1.1. 2013
<b>12.2.16</b>	CIRIA C733: Asbestos in Soil and Made Ground: A Guide to Understanding and Managing Risks. 2014
<b>12.2.17</b>	Defra Water Framework Directive Implementation in England and Wales: New and Updated Standards to Protect the Water Environment 2014
<b>12.2.18</b>	Defra SP1010: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination – Policy Companion Document. 2014
<b>12.2.19</b>	Newport City Council <a href="http://www.newport.gov.uk/documents/Planning-Documents/LDP-2011-2026/LDP-Constraints---Jan-2015.pdf">http://www.newport.gov.uk/documents/Planning-Documents/LDP-2011-2026/LDP-Constraints---Jan-2015.pdf</a>
<b>12.2.20</b>	CIRIA C648: Control of Water Pollution from linear construction projects (2006)**
<b>12.2.21</b>	MAFF GPC for Handling Soils 2000**
<b>12.2.22</b>	Construction Code of Practice for the Sustainable use of soils on Construction Sites 2009**
<b>12.2.23</b>	Welsh Government. Guidance Document. Contaminated Land Statutory Guidance -2012. WG15450**
<b>12.2.24</b>	Contaminated Land: Applications In Real Environments (CL:AIRE). A Framework for Assessing the Sustainability of Soil and Groundwater Remediation. March 2010**
<b>12.2.25</b>	Environment Agency. Guidance - Aggregate from waste steel slag: quality protocol**
<b>12.2.26</b>	Environment Agency. Verification of Remediation of Land Contamination. 2010**
<b>12.3</b>	<b>Publications</b>
<b>12.3.1</b>	British Geological Survey (BGS) South Wales RIGS Audit 2012 (see 13.3.6)
<b>12.3.2</b>	Bactec Explosive Ordnance Threat Assessment in respect of M4 Corridor around Newport. 2014.
<b>12.3.3</b>	Arup Welsh Government M4 Corridor around Newport Preliminary Sources Study Report 14/9197. 2014.



Document	
<b>12.3.4</b>	Environment Agency Aquifer Designation Maps ( <a href="http://maps.environment-agency.gov.uk/wiyby/wiybyController?topic=groundwater&amp;layerGroups=default&amp;lang=_e&amp;ep=map&amp;scale=5&amp;x=531500&amp;y=181500#x=531500&amp;y=181500&amp;lg=3,&amp;scale=5">http://maps.environment-agency.gov.uk/wiyby/wiybyController?topic=groundwater&amp;layerGroups=default&amp;lang=_e&amp;ep=map&amp;scale=5&amp;x=531500&amp;y=181500#x=531500&amp;y=181500&amp;lg=3,&amp;scale=5</a> ).
<b>12.3.5</b>	LQM/CIEH (2015), S4ULs for Human Health Risk Assessment, 2015.
<b>12.3.6</b>	Highways Agency. Revision of DMRB Volume 11 Section 3 Part 11 Geology and Soils Scoping Report. December 2010**
<b>12.4</b>	<b>Reports</b>
<b>12.4.1</b>	Norwest Holst Soil Engineering Ltd. Ground Investigation. M4 Relief Road for The Welsh Office. NR/SR/F10895 - Volumes 1 to 5. 1998
<b>12.4.2</b>	Exploration Associates M4 Relief Road – Stage 2 Preliminary Chemical Investigation. Report 150006. 2000
<b>12.4.3</b>	Norwest Holst Soil Engineering Ltd. Report on Ground Investigation at New M4 Project – Magor to Castleton. Second Preliminary Ground and Chemical Investigation. Project No. F15056 - Volumes 1 to 7 and Addendum 1. 2008
<b>12.4.4</b>	UK Technical Advisory Group (UKTAG) on the Water Framework Directive (WFD). Scoping study for Dangerous Substance Directive List II chemicals. Report Ref. SC080021/5d. 2012
<b>12.4.5</b>	UK Technical Advisory Group (UKTAG) on the Water Framework Directive (WFD) Updated Recommendations on Environmental Standards River Basin Management (2015-21). Final Report 2013 (Minor amendments 2014)
<b>12.4.6</b>	Geotechnical Engineering M4 Corridor Around Newport Factual Report on Ground Investigation Prepared for Welsh Government, Report Ref: 30238. 2015

## 13 Materials

Document	
<b>13.1</b>	<b>Legislation</b>
<b>13.1.1</b>	The Hazardous Waste (England and Wales) Regulations 2005. SI 2005 No. 894.
<b>13.1.2</b>	Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.
<b>13.1.3</b>	The Waste (England and Wales) Regulations 2011. SI 2011 No. 988.
<b>13.2</b>	<b>Policy and Guidance</b>
<b>13.2.1</b>	CIRIA Special Publication SP133: Waste Minimisation in Construction – Site Guide. 1997.
<b>13.2.2</b>	CIRIA Special Publication SP134: Waste Minimisation and Recycling in Construction – Design Manual. 1998.
<b>13.2.3</b>	National Assembly for Wales Minerals Planning Policy Wales. 2000
<b>13.2.4</b>	CIRIA Technical Guidance C536: Demonstrating Waste Minimisation Benefits During Construction. 2001
<b>13.2.5</b>	Welsh Assembly Government Minerals Technical Advice Note (Wales) 1: Aggregates. 2004
<b>13.2.6</b>	Design Manual for Roads and Bridges (DMRB), Volume 11, Section 2, Part 5 (HA 205/08) (Highways Agency <i>et al.</i> 2008) (see 6.1.8)
<b>13.2.7</b>	Defra Environmental Permitting Guidance for the Environmental Permitting (England and Wales) Regulations 2010.
<b>13.2.8</b>	Towards Zero Waste, One Wales: One Planet and Waste Sector Plans 2010
<b>13.2.9</b>	CL:AIRE Definition of Waste: Development Industry Code of Practice, Contaminated Land: Applications in Real Environments, London 2011
<b>13.2.10</b>	Highways Agency Interim Advice Note (IAN) 153/11 Guidance on the Environmental Assessment of Material Resources 2011
<b>13.2.11</b>	Welsh Government Technical Advice Note 21, Waste. 2014
<b>13.2.12</b>	Construction (Design and Management) Regulations 2015 Guidance**
<b>13.2.13</b>	Guidance on the assessment of dust from demolition and construction 2014**
<b>13.3</b>	<b>Publications</b>
<b>13.3.1</b>	Cuesta Consulting Limited Former Gwent Aggregates Safeguarding Study. 2009.
<b>13.3.2</b>	British Geological Survey The Mineral Resources Maps of Wales, Open Report OR/10/032. 2010.
<b>13.3.3</b>	British Geological Survey Mineral Resource Map of South East Wales (1:100,000). 2010.

Document	
<b>13.3.4</b>	British Geological Survey Aggregates Safeguarding Map of South East Wales (1:100,000). 2012.
<b>13.3.5</b>	British Geological Survey Aggregates Safeguarding Maps of Wales, Commissioned Report CR/12/039. 2012.
<b>13.3.6</b>	British Geological Survey South Wales Regionally Important Geodiversity Sites (RIGS) Audit, Commercial Report CR/12/033. Draft Report 2012
<b>13.3.7</b>	EA <a href="http://www.geostore.com/environment-agency">http://www.geostore.com/environment-agency</a> . 2016

## 14 Noise and Vibration

Document	
<b>14.1</b>	<b>Legislation</b>
<b>14.1.1</b>	Noise Insulation Regulations (NIR) 1975. SI 19875 No. 1763
<b>14.1.2</b>	Environmental Noise Directive (2002/49/EC) (END), 2002**
<b>14.1.3</b>	Control of Pollution Act, Chapter 40, Part III Noise, 1974**
<b>14.1.4</b>	Environmental Noise (Wales) Regulations, 2006**
<b>14.2</b>	<b>Policy and Guidance</b>
<b>14.2.1</b>	Department of Transport and Welsh Office Calculation of Road Traffic Noise. 1988
<b>14.2.2</b>	British Standards Institution (1993) BS 7385-2: Evaluation and Measurement for Vibration in Buildings – Part 2: Guide to Damage from Groundbourne Vibration. 1993
<b>14.2.3</b>	Welsh Government Technical Advice Note 11: Noise. 1997
<b>14.2.4</b>	British Standards Institution BS 6472-1: Guide to Evaluation of Human Exposure to Vibration in Buildings – Part 1: Vibration Sources Other than Blasting. 2008
<b>14.2.5</b>	British Standards Institution BS 5228-1:2009+A1:2014 Code of Practice for Noise and Vibration Control on Construction and Open Sites – Part 1: Noise. 2014
<b>14.2.6</b>	British Standards Institution BS 5228-2:2009+A1:2014 Code of Practice for Noise and Vibration Control on Construction and Open Sites – Part 2: Vibration. 2014
<b>14.2.7</b>	Highways Agency IAN 185/15 Updated Traffic, Air Quality and Noise Advice on the Assessment of Link Speeds and Generation of Vehicle Data into 'Speed-bands' for Users of DMRB Volume 11, Section 3, Part 1 'Air Quality' and Volume 11, Section 3, Part 7 Noise. 2015
<b>14.2.8</b>	<i>Not in use</i>
<b>14.2.9</b>	Evaluation and measurement for vibration in buildings Part 2 1993**
<b>14.2.10</b>	Guide to evaluation of human exposure to vibration in buildings Part 1: Vibration sources other than blasting 2008**
<b>14.2.11</b>	BSI. BS 6472-2:2008. Guide to evaluation of human exposure to vibration in buildings Part 2: Blast induced vibration, 2008.
<b>14.2.12</b>	A noise action plan for Wales 2013-2018, Welsh Assembly Government, 2013**
<b>14.2.13</b>	BSI. BS ISO 4866:2010. Mechanical vibration and shock – Vibration of fixed structures – Guidelines for the measurement of vibrations and evaluation of their effects on structures, 2010**

**Document**

**14.2.14** British Standards Institution BS 8233:2014 Guidance on sound insulation and noise reduction for buildings.\*\*\*

**14.2.15** World Health Organization Guidelines for Community Noise. 2000.\*\*\*

## 15 All Travellers

---

Document	
<b>15.1</b>	<b>Policy and Guidance</b>
<b>15.1.1</b>	Monmouthshire County Council Local Transport Plan 2015
<b>15.1.2</b>	Newport City Council Newport City Council Local Transport Plan 2015.
<b>15.2</b>	<b>Publications</b>
<b>15.2.1</b>	Welsh Government Active Travel Action Plan: Consultation 2014

## 16 Community and Private Assets

---

Document	
<b>16.1</b>	<b>Policy and Guidance</b>
<b>16.1.1</b>	Ministry of Agriculture, Fisheries and Food (Agricultural Land Classification of England and Wales. 1988
<b>16.1.2</b>	Welsh Assembly Government Planning Policy Wales Technical Advice Note 16: Sport, Recreation and Open Space. 2009
<b>16.1.3</b>	Welsh Assembly Government Technical Advice Note 6: Planning for Sustainable Rural Communities. 2010

## 17 Road Drainage and the Water Environment

Document	
<b>17.1</b>	<b>Legislation</b>
<b>17.1.1</b>	Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and wildlife and fauna (the Habitats Directive).
<b>17.1.2</b>	Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for Community action in the field of water policy (Water Framework Directive).
<b>17.1.3</b>	The Water Supply (Water Quality) Regulations 2000 as amended
<b>17.1.4</b>	Water Environment (Water Framework Directive) (England and Wales) Regulations 2003.
<b>17.1.5</b>	Directive 2006/118/EC of the European Parliament and of the Council of 12 December 2006 on the protection of groundwater against pollution and deterioration (daughter to 2000/60/EC) (Groundwater Daughter Directive).
<b>17.1.6</b>	Directive 2013/39/EU of the European Parliament and of the Council of 12 August 2013, amending Directives 2000/60/EC and 2008/105/EC as regards priority substances in the field of water policy.
<b>17.2</b>	<b>Policy and Guidance</b>
<b>17.2.1</b>	Welsh Assembly Government Planning Policy Wales Technical Advice Note 14: Coastal Planning 1998.
<b>17.2.2</b>	Welsh Assembly Government Technical Advice Note 15 (TAN 15): Development and Flood Risk 2004
<b>17.2.3</b>	Defra Shoreline management plan guidance Volume 1: Aims and requirements 2006
<b>17.2.4</b>	Defra Shoreline management plan guidance Volume 2: Procedures 2006
<b>17.2.5</b>	Environment Agency, Environment and Heritage Service (Northern Ireland) and Scottish Environmental Protection Agency Pollution Prevention Guidelines: Works and Maintenance In or Near Water. PPG5. 2007
<b>17.2.6</b>	Severn Estuary Coastal Group Severn Estuary Shoreline Management Plan, Main Report and Appendices. 2010
<b>17.2.7</b>	Environment Agency Benchmarking of 2D Hydraulic Modelling Packages 2010
<b>17.2.8</b>	Environment Agency, Northern Ireland Environment Agency and Scottish Environmental Protection Agency Pollution Prevention Guidelines: Working at Construction and Demolition Sites. PPG6, Second Edition. 2012
<b>17.2.9</b>	Environment Agency, Northern Ireland Environment Agency and Scottish Environmental Protection Agency Pollution Prevention Guidelines: Understanding Your Environmental Responsibilities – Good Environmental Practices. PPG1. 2013
<b>17.2.10</b>	Environment Agency Flood Estimation Guidelines 2015



<b>Document</b>	
<b>17.2.11</b>	Environment Agency Benchmarking the latest generation of 2D Hydraulic Modelling Packages 2013
<b>17.2.12</b>	Atkins, Severn Estuary FRM Strategy, Baseline Assessment, Final Report. 2013
<b>17.2.13</b>	Atkins, Severn Estuary FRM Strategy, Strategic Options Assessment. 2013
<b>17.2.14</b>	Arup Report – Flooding 2014
<b>17.2.15</b>	<i>Not Used</i>
<b>17.2.16</b>	Environment Agency, Severn Estuary FRM Strategy Appraisal Report. 2014
<b>17.2.17</b>	Guidance Manual for Constructed Wetlands, R&D Technical Report P2-159/TR2, Environment Agency, 2003**
<b>17.2.18</b>	Highways Agency Water Risk Assessment Tool (HAWRAT), 2009**
<b>17.2.19</b>	Sustainable drainage systems, Hydraulic, structural and water quality advice, CIRIA Report C609 (2004)**
<b>17.2.20</b>	Flood and Coastal Defence Appraisal Guidance, Supplementary Note to Operating Authorities – Climate Change Impacts, 2007***
<b>17.2.21</b>	Adapting to Climate Change: Guidance for Flood and Coastal Erosion Risk Management Authorities in Wales. Welsh Government, 2011***
<b>17.2.22</b>	Guidance on Climate Change Allowances for Planning Purposes. Welsh Government, 2016***
<b>17.2.23</b>	Technical Guidance: Flood Estimation, GPG102 Natural Resources Wales 2016***
<b>17.3</b>	<b>Publications</b>
<b>17.3.1</b>	<i>Not Used</i>
<b>17.3.2</b>	Environment Agency Methodology for the Derivation of Remedial Targets for Soil and Groundwater to Protect Water Resources (R and D Publication 20). 1999
<b>17.3.3</b>	Environment Agency Remedial Targets Methodology: Hydrogeological Risk Assessment for Land Contamination 2006
<b>17.3.4</b>	TRL Limited, A Study of Water Movement in Road Pavements. Published Project Report PPR082. 2006
<b>17.3.5</b>	Titan Environmental Surveys Limited (TESL) New M4 Magor to Castleton Baseline Surface Water Quality Final Report. Report Number: HS0442/F1/2. 2008.
<b>17.3.6</b>	Caldicot and Wentlooge Coastal Modelling. Summary report. NRW 2016***

## 18 Assessment of Cumulative Effects and Interrelationships

---

Document	
<b>18.1</b>	<b>Policy and Guidance</b>
<b>18.1.1</b>	The Planning Inspectorate Advice Note Nine: Rochdale Envelope 2012
<b>18.1.2</b>	The Planning Inspectorate Advice Note 17: Cumulative effects assessment relevant to nationally significant infrastructure projects. 2015

## 19 Environmental Management

---

Document	
<b>19.1</b>	<b>Policy and Guidance</b>
<b>19.1.1</b>	BSI ISO:14001 - Environmental Management Systems. Requirements with Guidance for Use. 2015