

## C ENVIRONMENTAL WORKSHEETS AND USEFUL CONTACTS

### C.1 Introduction

C.1.1 This appendix sets out a series of worksheets and useful environmental contacts and should be read in conjunction with Chapter 6 (Environment).

C.1.2 Worksheets are provided to assist in carrying out a Part 2 appraisal of the environmental impacts of a proposal. The completion of worksheets is not compulsory however they do provide confidence that the appraisal has been carried out objectively and they do provide a robust audit trail of the appraisal process and as such are recommended to the planner.

C.1.3 The content of the appendix and worksheets provided are set out in Table C.1 below.

**Table C.1: Index of Worksheets**

Section	Heading	Worksheet	Title
C2	Noise and Vibration	N1	Noise - Strategic Level
		N2	Noise - Project Level
C3	Air Quality	A1	Air Quality - Strategic Level
		A2	Air Quality - Project Level - PM <sub>10</sub>
		A3	Air Quality - Project Level - NO <sub>2</sub>
		A4	Air Quality - Strategic & Project Level
C4	Water Quality, Drainage & Flood Defence	W1	Water Quality, Drainage & Flooding - Strategic & Project Level
C5	Geological Features	G1	Geological Features - Strategic & Project Level
C6	Biodiversity	B1	Biodiversity - Strategic & Project Level, Baseline Information
		B2	Biodiversity - Strategic & Project Level, Impact Assessment
C7	Agriculture and Soils	AG1	Agriculture & Soils - Strategic & Project Level, Baseline Information
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C8	Cultural Heritage	CH1	Cultural Heritage - Strategic Level
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C9	Useful Environmental Contacts	-	-

C.2 Noise and Vibration

Worksheet N1: Noise - Strategic Level

Proposal Name:		Worksheet N1: Noise - Strategic Level <sup>1</sup>										
Location:		Existing & Future Noise Issues:		Date of Assessment:						Assessment Year:		Change in Population Annoyed (number of people)
Do-Minimum vs. Existing		Existing <sup>2</sup> Average <sup>3</sup> Noise Emission Level (dB)	Do-Minimum Average Noise Emission Level (dB)	Change in Average Noise Emission Level (dB)	Length of all Relevant Transport Corridors (km)	Width of Impact Corridor (m) <sup>4</sup>	Area of Population Exposed (km <sup>2</sup> )	Zonal Population Density (persons/km <sup>2</sup> )	Population Exposed (numbers of people)	Change in Annoyance Response Function <sup>5</sup> (% popn./dB)	Change in Population Annoyed (number of people)	
Zone:		A	B	C=B-A	D	E	F=D*E/1000	G	H=F*G	J	K=C*H*J/100	
Totals		-	-	-	TOTAL	-	TOTAL	-	TOTAL	-	-	
Proposal vs. Do-minimum		Do-Minimum Average Noise Emission Level (dB)	Proposal Average Noise Emission Level (dB)	Change in Average Noise Emission Level (dB)	Length of all Relevant Transport Corridors (km)	Width of Impact Corridor (m)	Area of Population Exposed (km <sup>2</sup> )	Zonal Population Density (persons/km <sup>2</sup> )	Population Exposed (numbers of people)	Change in Annoyance Response (% population) <sup>1</sup>	Change in Population Annoyed (number of people)	
Totals		-	-	-	TOTAL	-	TOTAL	-	TOTAL	-	-	
		Do-Minimum vs. Existing			Proposal vs. Do-Minimum <sup>6</sup>			Spatial / Social Groups Affected		Noise Related Objectives (where appropriate)		Assessment Score <sup>7</sup>
Increase in Population Annoyed												
Reduction in Population Annoyed												
No Change Population Annoyed												
Total Change in Population Annoyed												
Key Assumptions <sup>8</sup> :												
Key Data Sources:												

### Notes to Worksheet N1

- 1 Based on WebTAG Unit 3.3.2 Worksheet 2
- 2 Estimate average noise emissions using CRTN or CRN indicators for year 15 (see WebTAG Unit 3.3.2 paragraph 1.5.2)
- 3 Only continue calculations for zones where do-minimum or strategy noise emissions are 55 dB  $L_{Aeq, 18hr}$  or more (see WebTAG Unit 3.3.2 paragraph 1.3.7).
- 4 50M is considered reasonable to capture the majority of the population exposed in an urban / suburban area (see WebTAG Unit 3.3.2 paragraph 1.5.5).
- 5 Assumed to be 3% per dB for road noise and 2% per dB for rail noise at average levels greater than 65 dB  $L_{Aeq, 18hr}$ . (see WebTAG Unit 3.3.2 paragraph 1.3.4 and Table 1)..
- 6 A separate calculation sheet can be used to compare existing with proposal if this is required.
- 7 Using 7-point scale as described in STAG §6.8.4.
- 8 Include a description of any mitigation assumed to be in place.

### Worksheet N2: Noise - Project Level

Worksheet N2: Noise - Project Level <sup>1</sup>																	
Proposal Name:	Existing & Future Noise Issues:																
Location:	Previous Calculations <sup>2</sup> :		Date of Assessment:			Assessment Year:											
Road Traffic Noise <sup>3</sup> LA10, 18 hour (dB)	Estimated Population Exposed			No. Properties with a Change in Noise Levels >3dB(A) <sup>4</sup>			% Highly Bothered/ Annoyed by Noise <sup>5</sup>		Estimated Population Highly Bothered / Annoyed			Spatial/Social Groups Affected	Mitigation / Enhancement Description in words.	Impact Significance Assessment <sup>6</sup>			
	Existing	Do-Min	Proposed	Proposed vs. Do-Min		<10%	11%	16%	26%	39%	>48%				=A*%	=B*%	=C*%
	A	B	C	-ve	+ve												
<57																	
57-59																	
60-64																	
65-69																	
70-74																	
>74																	
Estimated Population Annoyed by Road Traffic Noise:																	
Railway Noise	LAeq, 18 hour (dB)																
<55																	
55-59																	
60-64																	
65-69																	
70-74																	
>74																	
Estimated Population Annoyed by Railway Noise:																	
Total Population Annoyed <sup>5</sup> by Railway Noise:																	
Noise Related Objectives (where appropriate)																	
Key Assumptions:																	
Key Data Sources:																	

### Notes to Worksheet N2

- 1 Based on WebTAG Unit 3.3.2 Worksheet 1
- 2 Provide numbers of people annoyed and distribution data from any previous calculations where undertaken.
- 3 Assumes stated mitigation is implemented.
- 4 If appropriate, these data will require consideration of individual properties or groups of properties to identify numbers of properties with noise changes >3dB(A). A separate worksheet can be used to compare do-minimum to existing, if this is required.
- 5 From *Annoyance Response Curves for Road and Rail*, WebTAG Unit 3.3.2 Table. Annoyance response for road noise is also provided in Figure 2, DMRB 11.3.7.
- 6 Using 7-point scale as described in STAG §6.8.4.

### C.3 Air Quality

#### Worksheet A1: Air Quality - Strategic Level

Proposal Name:		Worksheet A1: Air Quality - Strategic Level <sup>1</sup>												
Existing & Future Air Quality Issues:		Assessment Date:		Assessment Year:		Assessment Date:		Assessment Year:		Assessment Date:				
Emissions Estimate NO <sub>2</sub> <sup>2,3</sup>		Data for Each Location/Zone		Existing		Do-Minimum		Proposal		Do-Minimum minus Existing		Do Something minus Do-Minimum <sup>4</sup>		
Location / Zone	People A	Area km <sup>2</sup> B	Tonnes / Year C	Index D = (C*A)/B	Tonnes/ Year E	Index F = (E*A)/B	Tonnes/ Year G	Index H = (G*A)/B	J = H-D	No. People Better	No. People Worse	K = H-F	No. People Better	No. People Worse
1														
2														
...n														
	Total A	Total B	Total C	Total D	Total E	Total F	Total G	Total H	Total J	Total Better	Total Worse	Total K	Total Better	Total Worse

Emissions Estimate PM <sub>10</sub> <sup>1</sup>		Worksheet A1: Air Quality - Strategic Level <sup>1</sup>													
Existing & Future Air Quality Issues:		Assessment Date:		Assessment Year:		Assessment Date:		Assessment Year:		Assessment Date:		Assessment Year:		Assessment Date:	
Emissions Estimate PM <sub>10</sub> <sup>1</sup>		Data for Each Location/Zone		Existing		Do-Minimum		Do Something		Do-Minimum minus Existing		Do Something minus Do-Minimum			
Location / Zone	People A	Area km <sup>2</sup> B	Tonnes / Year C	Index D = (C*A)/B	Tonnes/ Year E	Index F = (E*A)/B	Tonnes/ Year G	Index H = (G*A)/B	J = H-D	No. People Better	No. People Worse	K = H-F	No. People Better	No. People Worse	
1															
2															
...n															
	Total A	Total B	Total C	Total D	Total E	Total F	Total G	Total H	Total J	Total Better	Total Worse	Total K	Total Better	Total Worse	
Key Assumptions:															
Key Data Sources:															

### **Notes to Worksheet A1**

- 1 Based on WebTAG Unit 3.3.3 Worksheet 2
- 2 Total CO<sub>2</sub>, PM<sub>10</sub> and NO<sub>2</sub> emissions for road traffic can be calculated using the 'Regional' application of the DMRB spreadsheet, as described in DMRB 11.3.1.
- 3 Zones within transport models will usually be of differing sizes. Study areas will also differ in size. Therefore total emissions should be expressed in terms of emission per unit area (e.g. tonnes per km<sup>2</sup> per year).
- 4 A separate worksheet can be used to compare do-minimum to existing, if this is required.



**Notes to Worksheet A2**

- 1 Based on WebTAG Unit 3.3.3 Worksheet 1
- 2 Weightings for PM<sub>10</sub> and NO<sub>2</sub> are provided in DMRB 11.3.1 Table 8.
- 3 Total CO<sub>2</sub>, PM<sub>10</sub> and NO<sub>2</sub> emissions for road traffic can be calculated using the 'Local' application of the DMRB spreadsheet, as described in DMRB 11.3.1.
- 4 Appropriate future year.
- 5 A separate worksheet can be used to compare do-minimum to existing, if this is required.



**Notes to Worksheet A3**

- 1 Based on DMRB Vol 11, Section 3 Part 1 methodology
- 2 Weightings for PM<sub>10</sub> and NO<sub>2</sub> are provided in DMRB 11.3.1 Table 8.
- 3 Total CO<sub>2</sub>, PM<sub>10</sub> and NO<sub>2</sub> emissions for road traffic can be calculated using the 'Local' application of the DMRB spreadsheet, as described in DMRB 11.3.1..
- 4 Appropriate future year.
- 5 A separate worksheet can be used to compare do-minimum to existing, if this is required.

**Worksheet A4: Air Quality - Strategic & Project Level**

Worksheet A4: Air Quality - Strategic & Project Level		Assessment Date:	Impact Significance Assessment							
		Assessment Year:								Mitigation / Monitoring <sup>5</sup>
Proposal Name:	Existing & Future Air Quality Issues:	Relevant Policies / Objectives / AQS Objectives	Uncertainty <sup>4</sup>	Timescale: When / Duration	Impact Magnitude <sup>3</sup>	Impact Description <sup>2</sup>				
		Location & Sensitivity <sup>1</sup>								
Key Assumptions:										
Key Data Sources:										

**Notes to Worksheet A4**

- 1 Make reference to location of change and any relevant spatial or social groups particularly affected.
- 2 Expressed in terms of change in traffic characteristics or distance between source and receptors etc.
- 3 Those pollutants giving rise to relevant change in relation to standards / objectives.
- 4 Level of uncertainty in assessment (High, Medium, Low).
- 5 Note need for mitigation / monitoring and organisation responsible.

**C.4 Water Quality, Drainage and Flood Defence**

**Worksheet W1: Water Quality, Drainage & Flooding - Strategic Project Level**

Worksheet W1: Water Quality, Drainage & Flooding - Strategic / Project Level										
Proposal Name	Assessment Date:									
	Location <sup>1</sup>	Water Use <sup>2</sup>	Resource Quality / Status <sup>3</sup>	Objectives <sup>4</sup>	Scale it Matters <sup>5</sup>	Potential Impacts	Timescales: When / Duration	Ease of Substitution <sup>6</sup>	Uncertainty <sup>7</sup>	Impact Significance Assessment <sup>8</sup>
<b>Surface Waters<sup>9</sup></b>										
<b>Groundwater<sup>10</sup></b>										
<b>Land Drainage / Flood Defence</b>										
<b>Key Assumptions:</b>										
<b>Key Data Sources:</b>										

**Notes to Worksheet W1**

- 1 At project level, watercourses should be considered in terms of their separate reaches.
- 2 Fisheries / recreation / abstraction
- 3 Status of surface water, aquifer protection or level of flood risk. Status also to be reported in terms of Scottish River, Loch, Coastal Waters and Estuary Classification Schemes to reflect their sensitivity and also in terms of whether the watercourses in the area are a designated salmonid or cyprinid fishery.
- 4 Objectives set nationally or locally as well as environmental capital objectives.
- 5 Scale of relevance to decision makers.
- 6 See WebTAG 3.3.11 paragraph 1.2.9
- 7 Level of uncertainty in assessment (high, medium, low).
- 8 Using 7-point scale as described in STAG §6.8.4. See also WebTAG 3.3.11 section 1.2.19.
- 9 Include consideration of surface water run-off.
- 10 Name of aquifer.

### C.5 Geological Features

#### Worksheet G1: Geological Features - Strategy & Project Level

Worksheet G1: Geological Features - Strategy & Project Level									
Proposal Name:	Assessment Date:								
	Existing & Future Issues:			Timescale: When / Duration			Impact Significance Assessment <sup>4</sup>		
Scale it Matters <sup>1</sup>	Attribute / Feature / Designation	Location / Status <sup>2</sup>	Relevant Objectives <sup>3</sup>	Potential Impact	Ease of Substitution	Uncertainty	Mitigation		
<b>Geological Sites</b>									
<b>Mineral Reserves</b>									
<b>Key Assumptions:</b>									
<b>Key Data Sources:</b>									

**Notes to Worksheet G1**

- 1 List in order of importance e.g. International, National, Regional, Local.
- 2 Indicate mineral resource.
- 3 Following discussions with statutory body.
- 4 Using 7-point scale as described in §6.8.4.

**C.6 Biodiversity**

**Worksheet B1: Biodiversity - Strategic & Project Level, Baseline Information**

Worksheet B1: Biodiversity - Strategic & Project Level, Baseline Information						
Proposal Name:			Assessment Date:			
Existing & Future Issues:			Ease of Substitution			
Location / Status <sup>1</sup>	Attribute / Feature Habitats / Species <sup>2</sup>	Scale it Matters	Importance <sup>3</sup>	Trend / Status	Relevant Objectives <sup>4</sup>	
<b>International Designated Features</b>						
<b>National Designated Features</b>						
<b>Regional Designated Features</b>						
<b>Local / Other Designated Features</b>						

### Notes to Worksheet B1

1 The name / location and designation of any relevant site / area should be provided.

2 Key characteristics of note.

3 See WebTAG Unit 3.3.10 paragraph 1.2.11

4 Relevant objectives to be taken from BAPs and other relevant documents.

International Special Protection Areas, Special Areas of Conservation, Ramsar Sites, Natura 2000 sites and other international convention sites.

National Site of Special Scientific Interest, National Nature Reserves, National Biodiversity Action Plans, National Parks and other statutory designated national sites.

Regional SNH's Natural Heritage Futures, structure plan designations and other sites of regional importance.

Local/Other Local Nature Reserves, Sites of Interest to Nature Conservation (SINC), SWT sites, other Local Plan designations, Local Biodiversity Action Plans.

**Worksheet B2: Biodiversity - Strategic & Project Level, Impact Assessment**

<b>Worksheet B2: Biodiversity - Strategic &amp; Project Level, Impact Assessment</b>	Impact Significance Assessment <sup>2</sup>							
	Mitigation							
	Uncertainty							
	Timescales: When / Duration							
	Potential for Cumulative Effects <sup>1</sup>							
	Potential Impacts							
Proposal Name:							Key Assumptions:	Key Data Sources:
Location								

**Notes to Worksheet B2**

- 1 Consider potential for impacts not just within the proposal but also with other external actions potentially affecting the site or resource.
- 2 Use 7-point scale as described in §6.8.4.

**C.7 Agriculture and Soils (AG1, AG2)**

**Worksheet AG1: Agriculture & Soils - Strategic & Project Level, Baseline Information**

Worksheet AG1: Agriculture & Soils - Strategic & Project Level, Baseline Information					
		Assessment Date:	Ease of Substitution		
Proposal Name:	Existing & Future Issues:	Land Take <sup>3</sup>			
		Trend / Status			
		Importance			
		Scale it Matters			
		Attribute / Feature <sup>2</sup>			
		Location / Status <sup>1</sup>			

**Notes to Worksheet AG1**

- 1 The name / location and predominant agricultural land class for the area / site should be provided.
- 2 Key agricultural characteristics of note such as importance to wider agricultural activities should be provided or preponderance of organic farming.
- 3 A broad estimate of land take should be made at a strategic level with more accurate figures provided at the project level.



**Notes to Worksheet AG2**

- 1 Potential impacts in terms of making husbandry activities no longer viable and severance causing major structural changes in farm operations should be recorded in terms of the number of farms affected. At a strategic level an indication of such potential effects would be appropriate.
- 2 Consider potential for impacts not just within the strategy or project but also for external actions potentially affecting the site or resource.
- 3 Use 7-point scale as described in §6.8.4.

## **C.8 Cultural Heritage**

- C.8.1 For the assessment of the effects upon standing structures and archaeological remains at the strategic level, STAG requires only a broad assessment of what impact a proposal may have on the 7-point scale (major negative to major positive). This includes an assessment against any specific Cultural Heritage objectives at the national, regional and local level.
- C.8.2 At the project level the method of assessment relies upon an appreciation of the character of the individual heritage components with direct and indirect construction and operational impacts being considered.
- C.8.3 The Part 2 AST requires a description of all designated sites and their designations in quantitative and qualitative terms.
- C.8.4 The STAG worksheets for cultural heritage consist of five tables, two for the strategic level assessment and three for the project level assessment.
- C.8.5 The STAG worksheets for cultural heritage require that the name and location of each site affected should be entered along with a summary description of the physical form of each site. Projects with a widespread effect, geographically or on the historic resource, should emphasise the most characteristic elements of that resource and the most significant effects on it. The cumulative impact of larger schemes should also be recorded.
- C.8.6 The strategic level worksheet (CH1) provides an overview of the heritage features under four designation types (international, national, regional and local/other). Table CH2 identifies impacts with an assessment score based on a 7-point scale (Major negative - Major positive).
- C.8.7 The project level assessment comprises three worksheets:
- Worksheet CH3 (Baseline Information) provides a description of the site/feature and records information in terms of 'scale it matters', 'importance', 'trend/status' and 'policy objectives'.
  - Worksheet CH4 (Project Level Assessment) provides an assessment of the potential effects/impacts based on 'compliance with policy objectives', 'timescale', 'uncertainty' and 'enhancement/mitigation'.
  - Worksheet CH5 (Assessment Scores). The final worksheet provides a review of the number of sites affected to different levels of importance based on the 7-point assessment scale.
- C.8.8 In completing Worksheets CH2 and CH5, it is strongly recommended that scheme impact interpretation is based on the distribution of the scores. It is not appropriate to interpret the assessment findings based on the aggregation of the scores which would fail to recognise the respective grades of heritage importance.



**Worksheet CH1: Cultural Heritage - Strategic Level**

Worksheet CH1: Cultural Heritage - Strategic Level										
Proposal Name:	Level									
Existing & Future Issues:	Assessment Date:									
	Attribute / Feature		Potential Impact		Impact Magnitude <sup>7</sup>	Timescales: When / Duration <sup>8</sup>	Relevant Policy Objectives <sup>9</sup>	Uncertainty <sup>10</sup>	Enhancement / Mitigation Potential <sup>11</sup>	
	Opening Year <sup>1</sup>	Assessment Year <sup>2</sup>								
Internationally Designated Features <sup>3</sup>										
Nationally Designated Features <sup>4</sup>										
Regionally Designated Features <sup>5</sup>										
Local / Other Cultural Features <sup>6</sup>										
Key Data Sources:										
Key Assumptions										

### Notes to Worksheet CH1

- 1 For each identified site describe the potential impacts of the proposal (including direct, indirect and cumulative effects) at year of opening.
- 2 For each identified site describe the potential impacts of the proposal (including direct, indirect and cumulative effects) at year of assessment (if applicable).
- 3 Based upon the occurrence of sites within 500m of possible transport measures list any World Heritage Sites.
- 4 Based upon the occurrence of sites within 300m of possible transport measures or principle network with more than 25% change in traffic volume list any Scheduled Ancient Monuments; National Trust Category A listed buildings; sites included on the inventory of History Gardens and Designed Landscapes.
- 5 List any relevant Conservation Areas, Category B listed buildings, sites of regional archaeological importance affected by the proposal.
- 6 List any relevant Category C(S) listed buildings, sites of local archaeological importance.
- 7 An assessment of the relative scale of the impact.
- 8 Identification of the timescale of the impact in terms of occurrence and duration.
- 9 Identify any National and local government policy objectives relevant to cultural heritage.
- 10 Comment on the level of certainty attached to the assessment of impacts on the basis of present information. This relates to the imperfect nature of archaeological information and/or the uncertainty about the nature and extent of works which would create the impact. The entry should reflect the level of confidence which would attach to the overall assessment.
- 11 Assessment to be undertaken 'without' and 'with' mitigation measures to demonstrate effectiveness of the proposed mitigation measures.

**Worksheet CH2: Cultural Heritage - Strategic Level Assessment Score**

Worksheet CH2: Cultural Heritage - Strategic Level, Assessment Score <sup>1</sup>		Major Positive	Moderate Positive	Minor Positive	Neutral		
		Minor Negative	Moderate Negative	Major Negative			
Proposal Name:							
Historic Features							
International							
National							
Regional							
Local / Other							
Key Data Sources:							
Key Assumptions:							

**Notes to Worksheet CH2**

- 1 See guidance on determination of assessment scores §C.8.9 - §C.8.17



### **Notes to Worksheet CH3**

- 1 Area / Location to include grid reference.
- 2 The official title of the property.
- 3 A short summary of the monument / property as recorded in the appropriate schedule, listing, records etc.
- 4 An assessment of the policy level at which the site or feature is regarded as important: 'national', 'regional', 'local', or 'lesser importance'.
- 5 Information on designations, which indicates the levels of importance of the site within its context. The information should allow for a great degree of differentiation between individual sites, which might all have the same level of designation, but which are not all of equal significance within their context. For example non-designated sites may be major contributors within a locality.
- 6 Statement on the relative scarcity / abundance and actual designation / status of the attribute / feature.
- 7 Central and local government objectives relevant to the feature.

**Worksheet CH4: Cultural Heritage - Project Level**

Worksheet CH4: Cultural Heritage - Project Level		Assessment Date:		Enhancement / Mitigation Potential <sup>6</sup>	
Proposal Name:					
Existing & Future Issues:					
Site Name / Location	Potential Impact		Timescales <sup>3</sup> : When / Duration	Compliance with Policy Objectives <sup>4</sup>	Uncertainty <sup>5</sup>
	Opening Year <sup>1</sup>	Assessment Year <sup>2</sup>			
<b>International Importance</b>					
<b>National Importance</b>					
<b>Regional Importance</b>					
<b>Local / Other Features</b>					
Key Data Sources:					
Key Assumptions					

#### **Notes to Worksheet CH4**

- 1 For each identified site describe the potential impacts of the proposal (including direct, indirect and cumulative effects) a year of opening. Project level assessments to include impacts 'without' and 'with' the project.
2. For each identified site describe the potential impacts of the proposal (including direct, indirect and cumulative effects) at year of assessment (if applicable). Project level assessments to include impacts 'without' and 'with' the project.
- 3 Identification of the timescale of the impact in terms of occurrence and duration.
- 4 Identify any National and local government policy objectives relevant to cultural heritage.
- 5 Comment on the level of certainty attached to the assessment of impacts on the basis of present information. This relates to the imperfect nature of archaeological information and/or the uncertainty about the nature and extent of works which would create the impact. The entry should reflect the level of confidence which would attach to the overall assessment.
6. Assessment to be undertaken 'without' and 'with' mitigation measures to demonstrate effectiveness of the proposed mitigation measures. To include consideration of feasibility, cost and effectiveness.

**Worksheet CH5: Cultural Heritage - Project Level, Assessment Score**

Worksheet CH5: Cultural Heritage - Project Level, Assessment Score <sup>1</sup>		Major Positive	Moderate Positive	Minor Positive	Neutral	Major Negative	Moderate Negative	Minor Negative
		Proposal Name:						
Historic Features								
International								
National								
Regional								
Local / Other								
Key Data Sources:								
Key Assumptions:								

**Notes to Worksheet CH5**

- 1 See guidance on determination of assessment scores §C.8.9 - §C.8.17.

## Guidance on the Determination of Assessment Scores

C.8.9 The *assessment* is based on a combination of the site's significance and the impact of the scheme upon it. Considered professional judgement will be required to assess the cumulative impacts of a scheme on Cultural Heritage. For example, a number of minor impacts on sites may have an overall major impact. Impacts on related sites may have an overall effect greatly exceeding the sum of the individual impacts. The assessment uses a 7-point scale, as follows:

- major adverse;
- moderate adverse;
- minor adverse;
- neutral;
- minor positive;
- moderate positive; and
- major positive.

These categories are explained in the following paragraphs.

### *Major Adverse*

C.8.10 An assessment of 'major adverse' should be realised where a scheme would result in:

- a limited direct impact on or partial degradation of the wider setting of internationally important site(s), resulting in the loss of features to such a degree that the integrity of the site is partly compromised, but not destroyed, or to the extent that their context is compromised and appreciation and understanding is diminished.
- a major direct physical impact on nationally important sites, resulting in the loss of features to such a degree that the integrity of the site is destroyed.
- major visual intrusion into the immediate setting of nationally important sites, to the extent that their context is seriously compromised and can no longer be appreciated or understood. A limited direct physical impact on or compromise of the wider setting(s) of multiple sites of national importance, to the extent that the cumulative impact would seriously compromise the integrity of a related group of sites or historic landscape. ['Related', in this sense, can mean both a linked group of contemporary sites or those illustrating the development of a landscape over time.]
- a major direct physical impact on regionally important sites, resulting in the loss of features to such a degree that the integrity of the site is destroyed, and either no adequate mitigation has been specified or it is incapable of achievement.
- a serious direct physical impact on or compromising of the immediate setting of multiple sites of regional importance, to the extent that the cumulative impact would seriously compromise the integrity of a related group of sites or historic landscape.

*Moderate Adverse*

C.8.11 An assessment of 'moderate adverse' should be realised where a scheme would result in:

- some limited direct physical impact on nationally important sites, resulting in the loss of features to such a degree that the integrity of the site is compromised, but not destroyed, and adequate mitigation has been specified.
- visual intrusion into the wider setting of nationally important sites, to the extent that their context is compromised and appreciation and understanding is diminished.
- a major direct physical impact on regionally important sites, resulting in the loss of features to such a degree that the integrity of the site is destroyed, but adequate mitigation has been specified.
- major visual intrusion into the immediate setting of regionally important sites, to the extent that their context is seriously compromised and can no longer be appreciated or understood.
- a limited direct physical impact on or compromising of the wider setting of multiple sites of regional importance, to the extent that the cumulative impact would seriously compromise the integrity of a related group of sites or historic landscape.

*Minor Adverse*

C.8.12 An assessment of 'minor adverse' should be realised where a scheme would result in:

- some direct physical impact on regionally important sites, resulting in the loss of features to such a degree that the integrity of the site is compromised, but not destroyed, and adequate mitigation could be specified.
- visual intrusion into the wider setting of regionally important sites, to the extent that their context is compromised and appreciation and understanding of them is diminished.
- loss of sites or their historic features which are of local importance, but for which adequate mitigation measures could be specified.

*Neutral*

C.8.13 An assessment of 'neutral' should be realised where a scheme would result in:

- no appreciable effect, either positive or negative, on any known sites.
- a combination of effects, some positive and some negative, to the extent that the beneficial effects balance the adverse.

C.8.14 The latter would generally only apply to those cases where 'minor' and 'moderate adverse' impacts are involved.

*Minor Positive*

C.8.15 An assessment of 'minor positive' should be realised where a scheme would result in:

- removal or mitigation of existing visual intrusion into the wider setting of regionally important sites, to the extent that their context is partly re-established and appreciation and understanding of them is improved.

*Moderate Positive*

C.8.16 An assessment of 'moderate positive' should be realised where a scheme would result in:

- removal or mitigation of existing major visual intrusion into the immediate setting of regionally important sites, to the extent that their context is significantly improved and can be better appreciated or understood.
- removal or mitigation of existing visual intrusion into the wider setting of multiple regionally important sites, to the extent that the context and the integrity of a related group of sites or historic landscape is re-established and appreciation and understanding of them is improved.

*Major Positive*

C.8.17 An assessment of 'major positive' should be realised where a scheme would result in:

- removal or mitigation of existing visual intrusion into the wider setting of internationally important sites, to the extent that their context and integrity is re-established and appreciation and understanding of them is improved.
- removal or mitigation of existing major visual intrusion into the immediate setting of nationally important sites, to the extent that their context is significantly improved and can be better appreciated or understood.
- removal or mitigation of existing visual intrusion into the wider setting of multiple sites of national importance, to the extent that the integrity of a related group of sites or historic landscape is re-established and appreciation and understanding of them is improved.
- removal or mitigation of existing major visual intrusion into the immediate setting of multiple sites of regional importance, to the extent that the integrity of a related group of sites or historic landscape is re-established and appreciation and understanding of them is improved.

## C.9 Useful Environmental Contacts

Name : Architectural Heritage Society of Scotland  
Address : The Glasite Meeting House  
33 Barony Street  
Edinburgh  
EH3 6NX  
Telephone : 0131 557 0019  
Fax : 0131 557 0049  
Website : [www.ahss.org.uk](http://www.ahss.org.uk)

Name : Council for Scottish Archaeology  
Address : National Museums of Scotland  
Chambers Street  
Edinburgh  
EH1 1JF  
Telephone : 0131 247 4119  
Fax : 0131 247 4126  
Website : [www.britarch.ac.uk/csa](http://www.britarch.ac.uk/csa)

Name : Garden History Society  
Address : 70 Cowcross Street  
London  
EC1M 6EJ  
Telephone : 0207 608 2409  
Fax : 0207 490 2974  
Website : [www.gardenhistorysociety.org](http://www.gardenhistorysociety.org)

Name : Garden History Society in Scotland  
Address : Glaiste Meeting House  
33 Barony Street  
Edinburgh  
EH3 6NX  
Telephone : 0131 557 5717  
Fax : 0131 557 5717  
Website : [www.gardenhistorysociety.org](http://www.gardenhistorysociety.org)

Name : Highland RIGS Group  
Address : Rose Cottage  
Farr  
Inverness  
IV2 6XB  
Telephone : 0180 852 7257  
Fax :  
Website : [www.ukrigs.org.uk](http://www.ukrigs.org.uk)

Name : Historic Scotland  
Address : Longmore House  
Salisbury Place  
Edinburgh  
EH9 1SH  
Telephone : 0131 668 8600 (general)  
0131 668 8707 (listing)  
0131 668 8777 (scheduling)  
Fax : 0131 668 8669  
Website : [www.historic-scotland.gov.uk](http://www.historic-scotland.gov.uk)

Name : Lothian and Borders RIGS Group  
Tayside RIGS Group  
Fife and Kinross RIGS Group  
Address : BGS Edinburgh  
Murchison House  
West Mains Road  
Edinburgh  
EH9 3LA  
Telephone : 0131 650 0289  
Fax :  
Website : [www.bgs.ac.uk](http://www.bgs.ac.uk)  
[www.ukrigs.org.uk](http://www.ukrigs.org.uk)

Name : Macaulay Land Use Research Institute  
Address : Craigiebuckler  
Aberdeen  
AB15 8QH  
Telephone : 01224 498200  
Fax : 01224 311556  
Website : [www.mluri.sari.ac.uk](http://www.mluri.sari.ac.uk)

Name : National Trust for Scotland  
Address : Wemyss House  
28 Charlotte Square  
Edinburgh  
EH2 4ET  
Telephone : 0131 243 9300  
Fax : 0131 243 9301  
Website : [www.nts.org.uk](http://www.nts.org.uk)

Name : Office for National Statistics  
Address : Cardiff Road  
Newport  
NP10 8XG  
Telephone : 0845 601 3034  
Fax : 01633 652 747  
Website : [www.statistics.gov.uk](http://www.statistics.gov.uk)

Name : Royal Commission on Ancient and Historic Monuments in  
Scotland  
Address : John Sinclair House  
16 Bernard Terrace  
Edinburgh  
EH8 9NX  
Telephone : 0131 662 1456  
Fax : 0131 662 1499  
Website : [www.rcahms.gov.uk/index](http://www.rcahms.gov.uk/index)

Name : Royal Society for Nature Conservation  
Address : The Kiln  
Waterside  
Mather Road  
Newark  
NG24 1WT  
Telephone : 0870 036 1000  
Fax : 0870 036 0101  
Website : [www.rsnc.org](http://www.rsnc.org)

Name : Scottish Civic Trust  
Address : The Tobacco Merchant's House  
42 Miller Street  
Glasgow G1 1DT  
Telephone : 0141 221 1466  
Fax : 0141 248 6952  
Website : [www.scotnet.co.uk/sct](http://www.scotnet.co.uk/sct)

Name : Scottish Environment Protection Agency  
Address : SEPA Corporate Office  
Erskine Court  
Castle Business Park  
Stirling  
FK9 4TR  
Telephone : 01786 457700  
Fax : 01786 446885  
Website : [www.sepa.org.uk](http://www.sepa.org.uk)

Name : Scottish Environment Protection Agency  
Address : East Region  
Clearwater House  
Heriot Watt Research Park  
Avenue North  
Riccarton  
Edinburgh  
EH14 4AP  
Telephone : 0131 449 7296  
Fax : 0131 449 7277  
Website : [www.sepa.org.uk](http://www.sepa.org.uk)

Name : Scottish Environment Protection Agency  
Address : North Region  
Graesser House  
Fodderty Way  
Dingwall Business Park  
Dingwall  
IV15 9XB  
Telephone : 01349 862021  
Fax : 01349 863987  
Website : [www.sepa.org.uk](http://www.sepa.org.uk)

Name : Scottish Environment Protection Agency  
Address : West Region  
5 Redwood Crescent  
Peel Park  
East Kilbride  
G74 5PP  
Telephone : 01355 574200  
Fax : 01355 574688  
Website : [www.sepa.org.uk](http://www.sepa.org.uk)

Name : Scottish Executive Enterprise Transport and Lifelong Learning  
Department  
Address : Victoria Quay  
Edinburgh  
EH6 6QQ  
Telephone : 0131 244 0763  
Fax : 0131 244 0785  
Website : [www.scotland.gov.uk](http://www.scotland.gov.uk)

Name : Scottish Executive Rural Affairs Department  
Address : Pentland House  
47 Robb's Loan  
Edinburgh  
EH14 1TY  
Telephone : 0131 244 6023  
Fax : 0131 244 6116  
Website : [www.scotland.gov.uk](http://www.scotland.gov.uk)

Name : Scottish Natural Heritage  
Address : 12 Hope Terrace  
Edinburgh  
EH9 2AS  
Telephone : 0131 447 4784  
Fax : 0131 446 2277  
Website : [www.snh.org.uk](http://www.snh.org.uk)

Name : Scottish Wildlife Trust  
Address : Cramond House  
Kirk Cramond  
Cramond Glebe Road  
Edinburgh  
EH4 6NS  
Telephone : 0131 312 7765  
Fax : 0131 312 8705  
Website : [www.swt.org.uk](http://www.swt.org.uk)